Page 1 1 2 STATE OF MICHIGAN IN THE CIRCUIT COURT FOR THE COUNTY OF OAKLAND 3 FAMILY DIVISION \_ \_ \_ 4 5 LORI MATHESON, : f/k/a LORI ANN SCHMITT, : б Plaintiff, : : 7 : CASE NO. vs. : 2015-831539-DM 8 MICHAEL SCHMITT, : Defendant. : 9 10 VIDEOTAPED DEPOSITION OF STANLEY A. PLOTKIN, M.D. 11 New Hope, Pennsylvania January 11, 2018 12 13 14 15 16 17 18 19 20 21 22 23 Reported by: 24 Maureen Broderick, RPR 25 JOB NO. 135522

	Page 2	Page 3
1		1
2		<sup>2</sup> APPEARANCES
3	Lana 11 2019	<sup>3</sup> SIRI GLIMSTAD
5	January 11, 2018	Attorneys for Plaintiff
	8:30 a.m.	4 200 Park Avenue
4		New York, NY 10166 5 BY: AARON SIRI, ESQ.
5		and
6	Videotape deposition of STANLEY A.	<sup>6</sup> MICHAEL W. REEDS
7	PLOTKIN, M.D., taken at the Golden Plough Inn, 5883	1038 E. West Maple
8	Lower York Road, New Hope, Pennsylvania, before	<sup>7</sup> Walled Lake, MI 48390
9	Maureen E. Broderick, Registered Professional	BY: AMY RUBY, ESQ.
10	Reporter and Notary Public in and of the	9
11	Commonwealth of Pennsylvania.	<sup>10</sup> (Via Telephone)
12		KARLSTROM COONEY
13		<sup>11</sup> Attorneys for Defendant
14		6480 Citation Drive <sup>12</sup> Clarkston, MI 48346
15		BY: LAURA NIEUSMA, ESQ.
16		13
17		
18		<ul> <li>ALSO PRESENT: Tom Leibman, Videographer</li> <li>16</li> </ul>
19		17
20		18
21		19
22		20
23		21 22
		23
24		24
25		25
	Page 4	Page 5
1		1
2	EXAMINATION INDEX	2 EXHIBIT INDEX
3	WITNESS PAGE	<sup>3</sup> NAME DESCRIPTION PAGE
4	Stanley Plotkin, M.D.	<sup>4</sup> Exhibit 11 Highlights of 157
5 6	By Mr. Siri 11 EXHIBIT INDEX	Prescribing Information 5 - ENGERIX-B
7	EXHIBIT INDEX NAME DESCRIPTION PAGE	<sup>6</sup> Exhibit 12 Poliovirus Vaccine 167
8	Plaintiff	Inactivated - IPOL -
9	Exhibit 1 Voices for Vaccines - 48	<ol> <li>Sanofi Pasteur</li> <li>Exhibit 13 M-M-R II Description 170</li> </ol>
10	Mission	<ul> <li><sup>8</sup> Exhibit 13 M-M-R II Description 170</li> <li><sup>9</sup> Exhibit 14 Highlights of 178</li> </ul>
10	Exhibit 2 Form 990 - Tax Form 49	Prescribing Information
11		<sup>10</sup> - ActHIB <sup>11</sup> Exhibit 15 Highlights of 184
10	Exhibit 3 The Task Force For 52	<sup>11</sup> Exhibit 15 Highlights of 184 Prescribing Information
12	Global Health - Fact Sheet	<sup>12</sup> - GARDASIL
13	אונכו	<sup>13</sup> Exhibit 16 Vaccine In Autoimmunity 189
	Exhibit 4 Royalty Pharma Press 64	- Chapter Book (Retained by Counsel)
14	Release	<ul> <li><sup>14</sup> (Retained by Counsel)</li> <li><sup>15</sup> Exhibit 17 A Study of Gardasil in 197</li> </ul>
15 16	Exhibit 5 12/15/15 Press Release 69 Exhibit 6 Immunization Action 72	Preadolescents and
10	Exhibit 6 Immunization Action 72 Coalition - IAC Funding	16 Adolescents
17	2017	<sup>17</sup> Exhibit 18 Highlights of 202 Prescribing Information
18	Exhibit 7 Attenuation of RA 27/3 77	<sup>18</sup> - Enbrel
19	Rubella Virus in WI-38	<sup>19</sup> Exhibit 19 Adverse Effects of 217
20	Human Diploid Cells Exhibit 8 CV of Dr. Plotkin 79	Pertussis and Rubella 20 Vaccines
21	Exhibit 9 Conflicts of Interest 131	<ul> <li><sup>20</sup> Vaccines</li> <li><sup>21</sup> Exhibit 20 Adverse Events 227</li> </ul>
	in Vaccine Policy	Associated with
22 23	Making - June 15, 2000 Exhibit 10 Highlights of 140	<sup>22</sup> Childhood Vaccines
62	Exhibit 10 Highlights of 149 Prescribing Information	<ul> <li><sup>23</sup> Exhibit 21 Adverse Effects of 231</li> <li>Vaccine - Evidence and</li> </ul>
24	- RECOMBIVAX HB	<sup>24</sup> Causality
25		25

			Page 6					Page 7
1				1				
2		EXHIBIT INDEX		2		EXHIBIT IND	EX	
3 4	NAME Exhibit 22	DESCRIPTION PAGE Adverse Effects of 241		3 4	NAME Exhibit 30	DESCRIP Aluminum Injections Lead	Hydroxide 297	
5		Vaccines: Evidence and Causality		5		Motor Deficits		
6	Exhibit 23	Professional Edition 264				Motor Neuron		
	Exhibit 25	for Physicians - 2015		6		Degeneration		
7		ICD9-CM Excerpt		7	Exhibit 31	Delivery o Nanoparticles		
8	Exhibit 24	Pilot Comparative Study 273		8		Metastases of I		
9		on the Health of				Cancer Using a		
9		Vaccinated and Unvaccinated 6- to		9		Trojan Horse		
10		12-year-old U.S.		10	Exhibit 32		2-Dependent 299	
		Children		11		Translocation of Biopersistent P		
11						from Muscle to		
	Exhibit 25	Preterm Birth, 278		12				
12		Vaccination and			Exhibit 33		layed Systemic 299	
13		Neurodevelopmental		13		Translocation of		
14	Exhibit 26	Disorders The Introduction of 282		14		Aluminum-Bas in CD1 Mice F		
	Exhibit 20	Diphtheria-Tetanus-Pert				Intramuscular	onowing	
15		ussis and Oral Polio		15		Injections		
l		Vaccine Among Young		16	Exhibit 34	Non-Linea		
16		Infants in an Urban		17		Dose-Response		
17		African Community: A		±′		Aluminum Hyo Adjuvant Parti		
17 18	Endshie 27	Natural Experiment		18		Selective Low		
10	Exhibit 27	Adverse Events 288 Associated with				Neurotoxicity		
19		Childhood Vaccines:		19				
l		Evidence Bearing on		20	Exhibit 35	Book: The		
20		Causality		20		System and the Developing Br		
21	Exhibit 28	Adverse Effects of 289		21		Developing Bi	ani	
		Vaccines: Evidence and			Exhibit 36	6/24/17 Le	etter to 305	
22 23	E 111 / 20	Causality		22		University of E		
23	Exhibit 29	In Vivo Absorption of 296 Aluminum-Containing				Columbia by D		
24		Vaccine Adjuvants Using		23 24	Exhibit 37	with Attachme 6/15/17 Le		
		26AL			EXHIUIT 57	InstitutMondor		
25				25		monument		
			Page 8					Page 9
1			Page 8	1				Page 9
1 2		EXHIBIT INDEX	Page 8	1				Page 9
	NAME	EXHIBIT INDEX DESCRIPTION PAGE	Page 8	1 2		EΣ	KHIBIT INDEX	Page 9
2	NAME Exhibit 38	DESCRIPTION PAGE 6/15/17 Letter to The 308	Page 8		NA			
2 3 4	NAME Exhibit 38	DESCRIPTION PAGE	Page 8	2 3	NAI	ME	DESCRIPTION	PAGE
2 3	NAME Exhibit 38	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre	Page 8	2 3 4				
2 3 4	NAME Exhibit 38 Exhibit 39	DESCRIPTION PAGE 6/15/17 Letter to The 308	Page 8	2 3 4 5		ME	DESCRIPTION	PAGE
2 3 4 5	NAME Exhibit 38 Exhibit 39 Exhibit 40	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317	Page 8	2 3 4		ME	DESCRIPTION	PAGE
2 3 4 5 6 7	NAME Exhibit 38 Exhibit 39 Exhibit 40	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism	Page 8	2 3 4 5		ME	DESCRIPTION	PAGE
2 3 4 5 6	NAME Exhibit 38 Exhibit 39 Exhibit 40	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary	Page 8	2 3 4 5 6 7		ME ibit 48	DESCRIPTION VAERS Results	PAGE 397
2 3 4 5 6 7	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340	Page 8	2 3 4 5 6 7 8		ME ibit 48 REQI	DESCRIPTION VAERS Results UESTS FOR PRODU	PAGE 397
2 3 4 5 6 7 8	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary	Page 8	2 3 4 5 6 7		ME ibit 48 REQI	DESCRIPTION VAERS Results	PAGE 397
2 3 4 5 6 7 8	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine	Page 8	2 3 4 5 6 7 8		ME ibit 48 REQI Pa	DESCRIPTION VAERS Results UESTS FOR PRODU	PAGE 397
2 3 4 5 6 7 8 9 10	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348	Page 8	2 3 5 7 8 9		ME ibit 48 REQI Pa 17/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15	PAGE 397
2 3 4 5 6 7 8 9	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38	Page 8	2 3 4 5 6 7 8 9 10		ME ibit 48 REQI Pa 17/25 39/19	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13	PAGE 397
2 3 4 5 6 7 8 9 10	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348	Page 8	2 3 5 7 8 9		ME ibit 48 REQU Pa 17/25 39/19 60/14	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349	Page 8	2 3 4 5 6 7 8 9 10		ME ibit 48 REQI Pa 17/25 39/19	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13	PAGE 397
2 3 4 5 6 7 8 9 10	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289,	Page 8	2 3 4 5 6 7 8 9 10		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349	Page 8	2 3 4 5 6 7 8 9 10 11		ME ibit 48 REQU Pa 17/25 39/19 60/14	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by	Page 8	2 3 4 5 6 7 8 9 10 11 11 12 13 14 15 16 17 18		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Inmunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Inmunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44 Exhibit 45	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society Discussion Meeting on 11 September 2000 VAERS Results 388	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44 Exhibit 45 Exhibit 45	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society Discussion Meeting on 11 September 2000 VAERS Results 388 Electronic Support for 391	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44 Exhibit 45 Exhibit 46	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society Discussion Meeting on 11 September 2000 VAERS Results 388 Electronic Support for 391 Public Health - VAERS -	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44 Exhibit 45 Exhibit 46	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society Discussion Meeting on 11 September 2000 VAERS Results 388 Electronic Support for 391	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	NAME Exhibit 38 Exhibit 39 Exhibit 40 Exhibit 41 Exhibit 42 Exhibit 43 Exhibit 44 Exhibit 45 Exhibit 46	DESCRIPTION PAGE 6/15/17 Letter to The 308 Birchall Centre Aluminium in Brain 309 Tissue in Autism Vaccine Excipient & 317 Media Summary Proceedings of the 340 Society of Experimental Biology and Medicine Attenuation of RA 27/3 348 Rubella Virus in WI-38 Human Diploid Cells The New England Journal 349 of Medicine, Vol. 289, No. 11 Untruths and 366 Consequences: The False Hypothesis Linking CHAT Type 1 Polio Vaccination to the Origin of Human Immunodeficiency Virus Postscript Relating to 366 New Allegations Made by Edward Hooper at The Royal Society Discussion Meeting on 11 September 2000 VAERS Results 388 Electronic Support for 391 Public Health - VAERS -	Page 8	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		ME ibit 48 REQU Pa 17/25 39/19 60/14 66/25	DESCRIPTION VAERS Results UESTS FOR PRODU ge/Line 145/15 155/13 159/16	PAGE 397

	Page 10		Page 11
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	MS. NIEUSMA: I'm going to ask that	2	co-counsel on behalf of plaintiff.
3	everybody speak up. You're all coming across a	3	MS. NIEUSMA: Laura Nieusma, counsel for
4	little soft other than Maureen. She's doing	4	defendant, Michael Schmitt.
5	fine.	5	VIDEO OPERATOR: The court reporter will
6	VIDEO OPERATOR: This is the start of	6	now swear in the witness.
7	media labeled number one of the video-recorded	7	now swear in the withess.
8	deposition of Dr. Stanley Plotkin in the matter	8	STANLEY PLOTKIN, M.D., having
9	of Lori Matheson, formerly known as Lori Ann	9	been first duly sworn to tell
10	Schmitt, versus Michael Schmitt, filed in the	10	the truth, was examined and
11	State of Michigan, Circuit Court, County of	11	testified as follows:
12	Oakland, Family Division.	12	
13	This deposition is being held at	13	EXAMINATION
14	· ·	14	
15	5833 Lower York Road in New Hope, Pennsylvania,	15	
16	on January 11, 2018. My name is Tom Liebman,	16	BY MR. SIRI:
17	and I'm the legal video specialist for the	17	Q Good morning, Dr. Plotkin.
	TSG Reporting, Incorporated, headquartered at	18	MS. RUBY: Can we just make a record under
18	747 Third Avenue in New York City. The court		this
19	reporter is Maureen Broderick, in association	19	I would just like to clarify that this is
20	with TSG Reporting.	20	being recorded by a video deposition pursuant
21	Counsel, please introduce yourselves for	21	to MCR 2.315.
22	the record.	22	BY MR. SIRI:
23	MR. SIRI: Aaron Siri, co-counsel on	23	Q Good morning. Can you please state your
24	behalf of plaintiff.	24	full name for the record.
25	MS. RUBY: Amy Ruby, on behalf	25	A Stanley A. Plotkin.
	Page 12		Page 13
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q Dr. Plotkin, have you been deposed before?	2	did a couple of those cases in the '60s, but I have
3	A A long time ago. Many years ago.	3	avoided depositions since then.
4	Q In what matter was that?	4	Q Why is that?
5	A Oh, it had to do with an abortion done	5	A Because I consider that they seldom bring
6	because of congenital rubella.	6	out all the facts, but I'm willing to help in this
7	Q What year approximately?	7	case.
8	A The 1960s.	8	Q I'm going to go over a few rules with you
9	Q And what was your testimony about?	9	for this deposition.
10	A My testimony was about the abnormalities	10	A Mm-hmm.
11	that occur in infants of women born that is,	11	Q The court reporter has placed you under
12	and the second s	1	
13	infants of women who have congenital, who have	12	oath Same as a court of law you're testifying
10	infants of women who have congenital, who have rubella during pregnancy and whose fetuses are	12 13	oath. Same as a court of law, you're testifying under penalty of periury.
	rubella during pregnancy and whose fetuses are		under penalty of perjury.
14 15	rubella during pregnancy and whose fetuses are frequently affected with considerable congenital	13	under penalty of perjury. A Mm-hmm.
14	rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities.	13 14	under penalty of perjury. A Mm-hmm. Q The court reporter's making a record and
14 15	rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities. Q From rubella?	13 14 15	under penalty of perjury. A Mm-hmm. Q The court reporter's making a record and will take down the questions that I ask and the
14 15 16	rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities. Q From rubella? A From rubella.	13 14 15 16	under penalty of perjury. A Mm-hmm. Q The court reporter's making a record and will take down the questions that I ask and the answers that you provide.
14 15 16 17	rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities. Q From rubella? A From rubella. Q Did that involve a vaccine?	13 14 15 16 17	under penalty of perjury. A Mm-hmm. Q The court reporter's making a record and will take down the questions that I ask and the answers that you provide. A Mm-hmm.
14 15 16 17 18 19	<ul> <li>rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities.</li> <li>Q From rubella?</li> <li>A From rubella.</li> <li>Q Did that involve a vaccine?</li> <li>A I, at the time I was developing a vaccine</li> </ul>	13 14 15 16 17 18 19	<ul> <li>under penalty of perjury.</li> <li>A Mm-hmm.</li> <li>Q The court reporter's making a record and will take down the questions that I ask and the answers that you provide.</li> <li>A Mm-hmm.</li> <li>Q If you don't understand a question, let me</li> </ul>
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14 15 16 17 18 19 20 21 22 23	<ul> <li>rubella during pregnancy and whose fetuses are frequently affected with considerable congenital abnormalities.</li> <li>Q From rubella?</li> <li>A From rubella.</li> <li>Q Did that involve a vaccine?</li> <li>A I, at the time I was developing a vaccine against rubella; yes.</li> <li>Q Have you been deposed in any other case?</li> <li>A Not that I can recall, no.</li> <li>Q Have you ever been an expert witness in</li> </ul>	13 14 15 16 17 18 19 20 21 22 23	under penalty of perjury. A Mm-hmm. Q The court reporter's making a record and will take down the questions that I ask and the answers that you provide. A Mm-hmm. Q If you don't understand a question, let me know before answering. Okay? The court reporter can't take down nods. That's another rule. So if you A Yes.

Page	15
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	Page 14	Page 15
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	you think you know the answer, so that we have a	<sup>2</sup> Q And you haven't discussed this lawsuit
3	complete record, please.	<sup>3</sup> with anyone apart from opposing counsel?
4	As I don't speculate. If you	$\frac{4}{4}$ A No.
5	1 2	
6	don't know the answer, then so state. But you	Q How and you mist fount about this
	should provide your best recollection, even if it's	iuwsuit.
7	vague or partial. Okay?	A It was from a lady by the name of Karen
8	A Yes.	<sup>8</sup> Ernst, who was the head of an organization called
9	Q Are you taking any medications or are	<sup>9</sup> Voices for Vaccines, which is a group of laypeople
10	under the influence of any substance that might	<sup>10</sup> who are favorable to vaccination. And she had heard
11	affect your ability to testify today?	<sup>11</sup> from the father, I believe, who was looking for
12	A I don't think so, no.	<sup>12</sup> experts to testify on his behalf.
13	Q Is that no?	<sup>13</sup> Q So you discussed this lawsuit with her?
14	A No.	<sup>14</sup> A Not really discussed the lawsuit. She
15	Q Okay. Did you discuss this deposition	<sup>15</sup> referred me to the father, and I sent an email
16	with anyone?	<sup>16</sup> saying that I would be willing to testify. I have
17	A Actually, no. I've had some conversations	<sup>17</sup> not talked to the father. I've never met the
18	with Laura Nieusma, but not about the substance of	<sup>18</sup> father. So I, everything has happened secondhand,
19		futier. 501, everything has happened seconditation,
20	my testimony.	so to spouk.
	Q Before today, did you have any discussions	Q And it was Karen Einst who asked you to be
21	with anyone related to this deposition?	an expert in this case :
22	A No. Actually, I know very little about	<sup>22</sup> A She asked me if I would be willing, yes.
23	the issue here. I understand that there's a	<sup>23</sup> Q How many discussions have you had with
24	disagreement between parents, but that's all I	<sup>24</sup> her?
25	really know.	<sup>25</sup> A No discussions.
	Page 16	Page 17
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1		
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. Q About this case.	<ol> <li>Stanley Plotkin, M.D.</li> <li>A The substance basically concerned what</li> </ol>
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	Page 18		Page 19
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q Great.	2	exaggerations, half-truths, or even misconceptions.
3	Have you reviewed any documents to	3	Q VaxTruth, does that website, is that a
4	prepare for this deposition?	4	website that catalogs personal stories of families
5	A You know, I've looked at the web. I don't	5	who believe their child was injured by vaccines?
6	usually do that, but I've looked at the web, some of	6	A You know, I did not what shall I
7	the anti-vaccination websites.	7	say? read these word for word. I imagine that
8	Q Which of those sites did you look at?	8	that's the case, but I couldn't tell you
9	A Oh, gosh. I can't give you the names.	9	specifically about which website says what.
10	I've just sort of scanned through a number of them.	10	Q But you found VaxTruth appalling?
11	Q Do you remember the names of any of them?	11	A Yes.
12	A Let's see.	12	Q Other than reviewing the, what you refer
13	MS. NIEUSMA: Dr. Plotkin, just to be	13	to as anti-vax or websites, did you review any other
14	clear, if you don't remember something, just	14	documents to prepare for this deposition?
15	say you don't remember and you can move on from	15	A Yes. I looked at a number of vaccine
16	there.	16	safety studies, which, again, are referenced in the
17	THE WITNESS: Yeah. Well, here's one	17	vaccine safety chapter.
18	called VaxTruth: Everything you ever needed to	18	Q And apart from that, anything else?
19	know about medical exemptions to vaccination	19	A No.
20	but didn't know to ask.	20	Q Have you been provided any documents
21	There are a couple of others that I looked	21	related to this lawsuit?
22	at, many of which were appalling.	22	A To whom?
23	BY MR. SIRI:	23	Q Have you, Dr. Plotkin, been provided any
24	Q Why do you believe they're appalling?	24	documents relating to this lawsuit specifically?
25	A Because they're ignorant of the facts,	25	A No, I have not.
	The booluse mey to ignorate of the facts,		
			Dama 01
	Page 20		Page 21
1	Page 20 Stanley Plotkin, M.D.	1	Page 21 Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. Q Have you reviewed any medical records	1 2	
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D. Germany. Let's see. Have I been to Asia in
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1		1	
Ŧ	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	altogether. If I known that you were interested, I	2	however, I'm trying to cut down on foreign trips.
3	would have brought my calendar.	3	So at the moment, I'll be going to Germany in June.
4	Q How about trips in the United States that	4	Aside from that, I'll be going to France in May. I
5	required you to get on a plane, how many of those	5	think that's all I can recall at the moment.
6	would you say in the last year?	6	Q What's your trip to France for?
7	A Mainly to California. A lot of trips to	7	A I'll be teaching in an advanced
8	Washington. Boston.	8	vaccinology course in Annecy.
9	Q California, Washington. Same city in	9	Q Where?
10	California each time or different?	10	A Annecy.
11	A No. San Francisco, San Diego.	11	Q What's that? I'm sorry.
12	Q What were the purpose of most of these	12	A A-N-N-E-C-Y. It's a town in France.
13	trips?	13	Q Who is sponsoring this course?
14	A Attend meetings, scientific meetings.	14	A Well, it's sponsored by the University of
15	Q Were any of them related to companies	15	Geneva and the Gates Foundation.
16	developing vaccines?	16	Q Anybody else?
17	A Oh, yes.	17	A No. Basically those are the funders.
18	Q Would you say most of them were?	18	Q And your trip to Germany, what's that for,
19	A Most of them? Probably about half of	19	Doctor?
20	them.	20	A I'll be going to visit a biotechnology
21	Q Do you have any, do you have any trips	21	company that is trying to develop vaccines based on
22	planned for 2018?	22	RNA.
23	A Yes.	23	Q Do you have a position or affiliation with
24	Q Where to?	24	that company?
25	A I'll be going to India next month and,	25	A I'm simply on their scientific Board.
	Page 24		Page 25
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q And your trip to India, purpose of that	2	be going to.
3	one?	3	MS. NIEUSMA: When you say "Washington,"
4	A To discuss vaccination against	4	do you mean Washington state or District of
5	chikungunya, a virus which is epidemic in India and	5	Columbia?
б	in South America.	6	THE WITNESS: District of Columbia.
6 7	Q And who are those discussions with?	6 7	THE WITNESS: District of Columbia. In May I'll be going back to France for
7	Q And who are those discussions with?	7	In May I'll be going back to France for
7 8	<ul><li>Q And who are those discussions with?</li><li>A Well, it's under the aegis of an</li></ul>	7 8	In May I'll be going back to France for the advanced vaccinology course. That's as
7 8 9	Q And who are those discussions with? A Well, it's under the aegis of an organization called CEPI, which is a coalition to develop vaccines against epidemic diseases. So it's an organization that's received funding from various	7 8 9	In May I'll be going back to France for the advanced vaccinology course. That's as much as I can remember at the moment.
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>Q And who are those discussions with?</li> <li>A Well, it's under the aegis of an organization called CEPI, which is a coalition to develop vaccines against epidemic diseases. So it's an organization that's received funding from various governments to meet the challenges of epidemic diseases like Ebola and chikungunya, et cetera.</li> <li>Q This trip also include meeting with vaccine developers?</li> <li>A Well, they will be present at the meeting. They will come and present the results of their efforts to develop a vaccine against chikungunya.</li> <li>Q Any trips planned in the United States for 2018?</li> <li>A Wish I had known to bring my calendar. I have no trips planned this month or actually next month. But I will be going to some NIH-sponsored meetings in March, as I recall, and there's a</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	In May I'll be going back to France for the advanced vaccinology course. That's as much as I can remember at the moment. BY MR. SIRI: Q Okay. There might be others; you just don't have your calendar here today, right? A Right. Q And the NIH meetings, where are those taking place? A In Bethesda. Q How far is that from here? A From here? Q Yeah. Do you drive there? A Oh, no. I take the train to Washington and then the Metro to Bethesda. Q How long does that trip take? A The train is an hour and a half. Metro is maybe 20 minutes.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q And who are those discussions with?</li> <li>A Well, it's under the aegis of an organization called CEPI, which is a coalition to develop vaccines against epidemic diseases. So it's an organization that's received funding from various governments to meet the challenges of epidemic diseases like Ebola and chikungunya, et cetera.</li> <li>Q This trip also include meeting with vaccine developers?</li> <li>A Well, they will be present at the meeting. They will come and present the results of their efforts to develop a vaccine against chikungunya.</li> <li>Q Any trips planned in the United States for 2018?</li> <li>A Wish I had known to bring my calendar. I have no trips planned this month or actually next month. But I will be going to some NIH-sponsored</li> </ul>	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	In May I'll be going back to France for the advanced vaccinology course. That's as much as I can remember at the moment. BY MR. SIRI: Q Okay. There might be others; you just don't have your calendar here today, right? A Right. Q And the NIH meetings, where are those taking place? A In Bethesda. Q How far is that from here? A From here? Q Yeah. Do you drive there? A Oh, no. I take the train to Washington and then the Metro to Bethesda. Q How long does that trip take? A The train is an hour and a half. Metro is

	Page 26		Page 27
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	case?	2	CDC-recommended vaccines on time.
3	A Well, from what was said before, the	3	Do you agree with the father?
4	plaintiff, I think, is someone named Schmitt. I've	4	A Yes.
5	÷	5	
6	not followed as I've said before, I have not been	6	Q Is it your understanding that the father
	involved in the legal details. So I don't know the	7	wants Faith to receive all vaccines she has missed
7	names except from what I've heard.		and continue to receive all CDC-recommended
8	Q What's the name of the defendant in this	8	vaccines?
9	case?	9	A That is my understanding, yes.
10	A As I understand it, they're a married	10	Q Do you agree with the father that Faith
11	couple, but that's all I can tell you. So I presume	11	should receive these vaccines?
12	they're both named Schmitt.	12	A Absent any contraindication, yes.
13	Q What's the name of their child?	13	Q Sitting here today, do you know whether
14	A I do not know.	14	Faith has any contraindications?
15	Q How old is their child?	15	A I do not know.
16	A I do not know.	16	Q So sitting here today, you don't know
17	Q Do you know whether the child has received	17	whether Faith should or should not actually get
18	any vaccines?	18	these vaccines?
19	A I do not know.	19	A In the absence of a contraindication,
20	Q The name of the child is Faith. I'll	20	Faith should receive the vaccines.
21	refer to the child as Faith during this deposition,	21	Q But you don't know whether she has a
22	okay?	22	contraindication?
23	A Mm-hmm.	23	A I do not know the medical history of the
24	Q Faith's father believes that Faith's	24	child.
25	mother was wrong to not have given Faith all	25	Q What vaccines has Faith missed according
	monier was wrong to not have given rath an		
	Desc. 20		Dage 20
	Page 28		Page 29
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	to the CDC schedule that you believe she should get?	2	Q The flu shot annually?
3	A Well, the CDC's schedule includes the	3	A Yes.
4	diphtheria, tetanus, pertussis, hepatitis B,	4	Q IIV, we'll call it the flu shot?
5	haemophilus influenzae, polio, measles, mumps,	5	A At the moment, yes.
6	rubella.	6	Q I'm sorry. At the moment?
7	I don't know how old she is, so I	7	A At the moment.
8	don't know, you know, where to stop. But there are	8	Q What do you mean?
9	vaccines recommended in preadolescents. So she	9	A I mean that there are two influenza
10	should receive those when she reaches the	10	vaccines, one of which is recommended for this year;
11	appropriate age.	11	the other is not recommended at the moment but may
12	Q So just so I got just to make sure I	12	be in the future.
13	understand, you believe she should get the	13	Q You think she should get the recommended
14	hepatitis B vaccine?	14	one?
15	*		
16		1.2	
	A Yes.	15 16	A Yes. And you think she should get the MMP. I
17	Q Rotavirus?	16	Q And you think she should get the MMR, I
17 18	Q Rotavirus? A Yes.	16 17	Q And you think she should get the MMR, I believe you said?
18	<ul><li>Q Rotavirus?</li><li>A Yes.</li><li>Q DTaP?</li></ul>	16 17 18	<ul><li>Q And you think she should get the MMR, I</li><li>believe you said?</li><li>A Yes. And varicella.</li></ul>
18 19	<ul><li>Q Rotavirus?</li><li>A Yes.</li><li>Q DTaP?</li><li>A Yes.</li></ul>	16 17 18 19	<ul><li>Q And you think she should get the MMR, I</li><li>believe you said?</li><li>A Yes. And varicella.</li><li>Q And hepatitis A vaccine?</li></ul>
18 19 20	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> </ul>	16 17 18 19 20	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> </ul>
18 19 20 21	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> <li>A Yes.</li> </ul>	16 17 18 19 20 21	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> <li>Q And hep A vaccine?</li> </ul>
18 19 20 21 22	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> <li>A Yes.</li> <li>Q PCV13?</li> </ul>	16 17 18 19 20 21 22	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> <li>Q And hep A vaccine?</li> <li>A And the hep A vaccine, yes.</li> </ul>
18 19 20 21	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> <li>A Yes.</li> <li>Q PCV13?</li> <li>A Yes.</li> </ul>	16 17 18 19 20 21 22 23	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> <li>Q And hep A vaccine?</li> <li>A And the hep A vaccine, yes.</li> <li>Q How many doses of hep B as a child do you</li> </ul>
18 19 20 21 22 23	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> <li>A Yes.</li> <li>Q PCV13?</li> <li>A Yes.</li> <li>Q IPV?</li> </ul>	16 17 18 19 20 21 22 23 24	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> <li>Q And hep A vaccine?</li> <li>A And the hep A vaccine, yes.</li> <li>Q How many doses of hep B as a child do you recommend they receive?</li> </ul>
18 19 20 21 22 23 24	<ul> <li>Q Rotavirus?</li> <li>A Yes.</li> <li>Q DTaP?</li> <li>A Yes.</li> <li>Q Hib?</li> <li>A Yes.</li> <li>Q PCV13?</li> <li>A Yes.</li> </ul>	16 17 18 19 20 21 22 23	<ul> <li>Q And you think she should get the MMR, I</li> <li>believe you said?</li> <li>A Yes. And varicella.</li> <li>Q And hepatitis A vaccine?</li> <li>A I'm sorry.</li> <li>Q And hep A vaccine?</li> <li>A And the hep A vaccine, yes.</li> <li>Q How many doses of hep B as a child do you</li> </ul>

	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
Q	How many doses of rotavirus do you	2	A At least two, yes.
recom	mend?	3	Q How many doses of varicella?
А	Two or three.	4	A Two.
Q	And you recommend Faith receive those,	5	Q And hep A?
right?		6	A Two or three. Two is often sufficient.
А	Yes.	7	Q And those are the doses that you recommend
Q	And you recommend that she receive the	8	that Faith receive, correct?
three c	loses of hep B?	9	A Yes.
А	Yes.	10	Q For each of those vaccines we just went
Q	And how many doses of DTaP do you	11	through?
recom	mend she receive?	12	A Yes.
А	Well, currently at least three, then a	13	And then there are the adolescent
booste	r and eventually another booster.	14	vaccines as well.
Q	How many doses of Hib do you recommend she	15	Q And what are those?
receiv	e?	16	A Well, meningococcus is often recommended
А	Well, three are usually sufficient.	17	and also human papillomavirus vaccine to, especially
Q	How many doses of PCV13?	18	if she is a girl, but it's also recommended for boys
А	Three.	19	as well.
Q	And how many doses of IPV or an	20	Q And you recommend that Faith receive those
inactiv	vated polio vaccine?	21	as well as meningococcus and HPV vaccine?
А	Three.	22	A Yes.
Q	How many doses of the flu shot?	23	Q Any others?
А	Well, one per year.	24	A Well, I could look up the vaccine
Q	And how many doses of MMR?	25	schedule, if you wish me to, but I am sure that I
	recom A Q right? A Q three of A Q recom A booste Q receive A Q inactive A Q A	<ul> <li>Q How many doses of rotavirus do you recommend?</li> <li>A Two or three.</li> <li>Q And you recommend Faith receive those, right?</li> <li>A Yes.</li> <li>Q And you recommend that she receive the three doses of hep B?</li> <li>A Yes.</li> <li>Q And how many doses of DTaP do you recommend she receive?</li> <li>A Well, currently at least three, then a booster and eventually another booster.</li> <li>Q How many doses of Hib do you recommend she receive?</li> <li>A Well, three are usually sufficient.</li> <li>Q How many doses of PCV13?</li> <li>A Three.</li> <li>Q And how many doses of IPV or an inactivated polio vaccine?</li> <li>A Three.</li> <li>Q How many doses of the flu shot?</li> <li>A Well, one per year.</li> </ul>	QHow many doses of rotavirus do you2recommend?3ATwo or three.4QAnd you recommend Faith receive those,5right?6AYes.7QAnd you recommend that she receive the8three doses of hep B?9AYes.10QAnd how many doses of DTaP do you11recommend she receive?12AWell, currently at least three, then a13booster and eventually another booster.14QHow many doses of Hib do you recommend she15receive?16AWell, three are usually sufficient.17QHow many doses of IPV or an20inactivated polio vaccine?21AThree.22QHow many doses of the flu shot?23AWell, one per year.24

## Page 32

	i dge 52		i dge 55
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	agree with all of the CDC recommendations.	2	vaccines I developed, so I do know that the trade
3	Q How about when she becomes an adult; would	3	name is called RotaTeq. And the other one is called
4	you recommend that she get all of the adult vaccines	4	Rotarix.
5	that are recommended by the CDC for adults?	5	Q Who manufactured those?
6	A Certainly, yes.	6	A I'm sorry.
7	Q What are the, can you please tell me the	7	Q Who sells those, manufactures those?
8	brand name and manufacturer for each of the hep B	8	A Merck manufactures RotaTeq, and GSK
9	vaccines?	9	manufactures Rotarix.
10	A I do not try to memorize brand names. As	10	Q How about DTaP, who what are the brand
11	I recall, Engerix is the most commonly used	11	names or manufacturers for DTaP?
12	hepatitis B vaccine, which is manufactured by	12	A Oh, boy. Sanofi Pasteur manufactures
13	GlaxoSmithKline. There's also a vaccine	13	DTaP, and so does GSK. I do not remember the trade
14	manufactured by Merck. I don't remember the trade	14	names.
15	name at the moment. As I said, I don't try to	15	Q How about the hepatitis B vaccine; can you
16	memorize trade names.	16	tell me what are the brand names for those products
17	Q So for the hepatitis B, there's a vaccine	17	and the manufacturer?
18	manufactured by GlaxoSmithKline. Can we refer to	18	A For hepatitis B?
19	that either as Glaxo or GSK today?	19	Q For Hib. I'm sorry.
20	A Mm-hmm. Yes.	20	A For Hib?
21	Q And there's one manufactured by Merck?	21	Q I apologize. Did I say hep B? I meant
22	A Correct.	22	Hib. Which stands for what, by the way,
23	Q Rotavirus, what are the brand names and	23	Dr. Plotkin?
24	companies that manufacture those?	24	A Haemophilus influenzae type B.
25	A Well, actually, one of the rotavirus	25	Q Thank you. So

Page 33

	Page 34		Page 35
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Well, again, my recollection is that	2	A For children?
3	Sanofi and GSK, yes, both manufacture Hib.	3	O Yeah.
4	Q And okay. And what about PCV13; what	4	A I don't remember which of the
5	is the name of the product and the manufacturer of	5	manufacturers. There are probably ten different
6	that vaccine?	6	influenza vaccines, not all of which have been
7	A I don't remember the trade name, but	7	tested in children.
8	Pfizer is the manufacturer.	8	So there are relatively few for
9	Q What about the flu shot?	9	children, all of them manufactured in a chick
10	A Oh, well, there are multiple	10	embryo. But anyway, I don't I'm sure that the
11	manufacturers.	11	major manufacturers like Sanofi and GSK certainly
12	Q Yes, there are multiple manufacturers of	12	major manufacturers like salion and OSK certainty manufacture influenza vaccines.
13	the shot. Let's, in terms of flu shots strike	13	There's an Australian manufacturer,
14	that.	14	CSL.
15		15	
16	We're going to come back to the flu shot. We'll make it simple.	16	Q But, I mean just for I'm sorry, Dr. Blathin, Just for hy and group, lat
17	*	17	Dr. Plotkin. Just for, by age group, do you let
18	Well, let me ask you this, actually,	18	me make this simpler.
19	about the flu shot: What flu shots, are there any	19	Do you know, do you have a
20	flu shots recommended for children under one year of	20	recollection of which flu shots are recommended for
20	age?	20	which age groups?
22	A No. Six months usually is the time, the	22	A You mean which manufacturers?
22	age at which influenza vaccines are recommended for	23	Q Right.
23	children.	23	A I don't, don't recollect.
	Q Do you know who manufactures flu shots		Q In terms of the, in terms of the IPV, the
25	recommended for children under one year	25	inactivated polio vaccine, who manufactures, what is
	Page 36		Page 37
1		1	
1 2	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
	Stanley Plotkin, M.D. the product name manufacturer for that?		Stanley Plotkin, M.D. Those are the three.
2	Stanley Plotkin, M.D. the product name manufacturer for that? A I don't remember the trade name, but	2	Stanley Plotkin, M.D. Those are the three. Q And how about the HPV vaccine
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2 3 4	Stanley Plotkin, M.D. the product name manufacturer for that? A I don't remember the trade name, but Sanofi and GSK both make IPV. Q And the MMR vaccine, what is the product	2 3 4	Stanley Plotkin, M.D. Those are the three. Q And how about the HPV vaccine manufacturer, the product name and manufacturer, please?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Stanley Plotkin, M.D. the product name manufacturer for that? A I don't remember the trade name, but Sanofi and GSK both make IPV. Q And the MMR vaccine, what is the product name and manufacturer for that one? A Merck is the manufacturer. GSK also makes one, but Merck is pretty much the American manufacturer for MMR. Q And for varicella, the product name and manufacturer? A Well, Merck, again, manufactures varicella vaccine, and GSK also does. Q And then for the hepatitis A vaccine, who is the, what are the product names and manufacturers? A Hepatitis A, GSK is the biggest manufacturer of hepatitis A. Q Is there any got it. Okay. And then How about the meningococcal vaccine; what's the product name and manufacturer for that one?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Stanley Plotkin, M.D. Those are the three. Q And how about the HPV vaccine manufacturer, the product name and manufacturer, please? A Merck and GSK both manufacture HPV vaccines. Q So every vaccine that you believe Faith should receive is produced by either Merck, Sanofi, GSK, or Pfizer, correct? A Yeah. That's pretty much the case. In this country, at the present time, there are a limited number of vaccine manufacturers because vaccine manufacture is difficult and costly. Q Would it be correct to call these four companies the big four vaccine manufacturers? A Yes, that's correct. Johnson & Johnson is attempting to come into the field, but they are not yet one of the major manufacturers. Q Have you received any payments from Sanofi or any of its related or predecessor entities? A Yes. Certainly. Q In what years did you receive payments?

	Page 38	Page	
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	scientific director of Sanofi Pasteur, and so	<sup>2</sup> than a hundred thousand dollars?	
3	obviously I was paid by them.	<sup>3</sup> A Oh, I'm sure it's more than that.	
4	And since then I've been consulting	<sup>4</sup> Q Would you say it's more or less than	
5	for manufacturers, for biotechs, for governments,	<sup>5</sup> 500,000?	
6	for nonprofits, and essentially for anyone	<sup>6</sup> A Probably, yes. Over the years, I imagine	
7	interested in vaccine development.	$^{7}$ it is.	, ,
8	And so I have been remunerated by	<sup>8</sup> Q Would you say it's more or less than a	
9	companies, not by nonprofits, obviously, and that is	<sup>9</sup> million dollars?	
10	essentially what I do.	<sup>10</sup> A Well, again, I'm not prepared to answer	
11	Q Is there a year since 1990 that you've not	<sup>11</sup> this question, but I'm sure it's a considerable	
12	received any kind of payment or remuneration from	<ul> <li>amount of money. And over the years, it could</li> </ul>	wall
13	Sanofi?	<sup>13</sup> be more than a million.	well
14	A Probably not, no.	<sup>14</sup> Q Do you believe it could be a few million	9
15	•		
16	Q How much did you receive what would you	Tou know, counselor, realmot give you	a
17	say is approximate total amount of payments and	precise inguie. It is a considerable amount of	
18	remunerations you've received from Sanofi during	money. I do not doubt. Dut i could not give yo	u a
19	your lifetime?	specific number because I ve never looked at h.	
20	A Oh, my God. I have no idea. I'm sure	Q The going to make a request for the	
	it's a sizable amount of money. But I, you'd have	documents to understand precisely now inden y	ou've
21 22	to ask my wife, who's essentially my accountant.	received from Salori over the years.	
	Q Is your wife the person that would have	Wist Willosiwirk. Thiean, you guys can a	o any
23	the records to know that amount?	<ul> <li>discovery requests that you want. If he</li> <li>doesn't have it with him today, he can't</li> </ul>	
24	A Yeah. She probably would.	doesn't have it with him today, he can't	
25	Q Okay. Would you say it's more or less	<sup>25</sup> produce it right now.	
	Page 40	Page	• 41
	rage ro	5	
1			
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
	Stanley Plotkin, M.D. MR. SIRI: Your objection is noted,	<ol> <li>Stanley Plotkin, M.D.</li> <li><sup>2</sup> indirectly more than 1 percent ownership interest,</li> </ol>	
2	Stanley Plotkin, M.D. MR. SIRI: Your objection is noted, Counsel. Thank you.	<ol> <li>Stanley Plotkin, M.D.</li> <li>indirectly more than 1 percent ownership interest, okay, has any company like that received money for the state of the state o</li></ol>	
2 3	Stanley Plotkin, M.D. MR. SIRI: Your objection is noted, Counsel. Thank you. BY MR. SIRI:	<ul> <li>Stanley Plotkin, M.D.</li> <li>indirectly more than 1 percent ownership interest,</li> <li>okay, has any company like that received money for Sanofi?</li> </ul>	
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2 3 4 5	Stanley Plotkin, M.D. MR. SIRI: Your objection is noted, Counsel. Thank you. BY MR. SIRI: Q Has any entity in which you directly or indirectly have a greater than 1 percent ownership	<ul> <li>Stanley Plotkin, M.D.</li> <li>indirectly more than 1 percent ownership interest,</li> <li>okay, has any company like that received money f</li> <li>Sanofi?</li> <li>A Well, again, I'm not sure I understand the</li> <li>question. But I am the principal of a company</li> </ul>	
2 3 4 5 6	Stanley Plotkin, M.D. MR. SIRI: Your objection is noted, Counsel. Thank you. BY MR. SIRI: Q Has any entity in which you directly or indirectly have a greater than 1 percent ownership interest received any payment from Sanofi or any of	<ul> <li>Stanley Plotkin, M.D.</li> <li>indirectly more than 1 percent ownership interest,</li> <li>okay, has any company like that received money f</li> <li>Sanofi?</li> <li>A Well, again, I'm not sure I understand the</li> <li>question. But I am the principal of a company</li> <li>called Vaxconsult</li> </ul>	
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	Page 42	Page 43
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	considerable amount, but I cannot tell you exactly	<sup>2</sup> A Sometime in the 2000s.
3	how much.	<sup>3</sup> Q Would you say that you've received more
4	Q Is there any other company in which you	4 than a hundred thousand dollars in
5	have an ownership interest that's received money	<sup>5</sup> payments/remuneration from Merck since then?
6	from Sanofi?	<sup>6</sup> A I have no idea.
7	A No.	7 Q But you would have records that would be
8	Q You anticipate to continue to receive	<sup>8</sup> able to determine that amount, correct?
9	payments or any kind of other remuneration from	<sup>9</sup> A Yes. I doubt actually, I doubt that
10	Sanofi in the future?	<sup>10</sup> it's a hundred thousand, but I don't, I don't
11	A As long as my health holds out, yes.	<sup>11</sup> recall. As I said, my wife does the accounting, and
12	Q What are those payments for?	<sup>12</sup> I pay no attention to it.
13	A For advice.	<sup>13</sup> Q Do you anticipate receiving any payments
14	Q Have you received any payments from Merck	<ul> <li><sup>14</sup> or remuneration from Merck in the future?</li> </ul>
15	or any of its related or predecessor entities?	$^{15}$ A Sure.
16	A Yes.	A Suic.
17	Q What year did you receive payments?	<ul> <li>Q You said that you received payments and</li> <li>other remuneration from GSK in the past?</li> </ul>
18	A All I can say is since I stopped working	$^{17}$ other remuneration from GSK in the past? $^{18}$ A Yes.
19	for Sanofi, which was in early 2000s, I've consulted	A 103.
20	•	Q When did those payments start.
21	for essentially all of the major manufacturers. I	A Again, I cannot give you a precise year.
22	do not know how much I received. But I have	But as I ve tried to say repeatedry, since 2000,
23	certainly received payments from Merck, from Glaxo,	The been consulting for many different entities,
23	from Pfizer, and many other entities.	mendaling OSIX and the others.
25	Q So what was approximately the first year	Q Do you expect to continue to receive
25	that you received payments from Merck?	<sup>25</sup> payments or remuneration from GSK in the future?
	Page 44	Page 45
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	A Yes.	<sup>2</sup> over longer periods of time is not as clear with
3		
	O I'll ask you the same question about	<sup>3</sup> regard to how much payment or remuneration you
4	Q I'll ask you the same question about Pfizer. You indicated that you have received	regard to now inden puyment of remaneration you
4 5	Pfizer. You indicated that you have received	<sup>4</sup> received from the big four, can you tell me, what is
	Pfizer. You indicated that you have received payments or remuneration from Pfizer?	<ul> <li>received from the big four, can you tell me, what is</li> <li>the total amount of payments in dollars you received</li> </ul>
5	Pfizer. You indicated that you have received payments or remuneration from Pfizer? A Yes.	<ul> <li>received from the big four, can you tell me, what is</li> <li>the total amount of payments in dollars you received</li> <li>in 2017, last year, from anyone or any entity</li> </ul>
5 6	<ul><li>Pfizer. You indicated that you have received payments or remuneration from Pfizer?</li><li>A Yes.</li><li>Q Do you remember when you first received</li></ul>	<ul> <li>received from the big four, can you tell me, what is</li> <li>the total amount of payments in dollars you received</li> <li>in 2017, last year, from anyone or any entity</li> <li>involved in the development or sale of vaccines?</li> </ul>
5 6 7	<ul><li>Pfizer. You indicated that you have received payments or remuneration from Pfizer?</li><li>A Yes.</li><li>Q Do you remember when you first received any payments from them or any remuneration?</li></ul>	<ul> <li>received from the big four, can you tell me, what is</li> <li>the total amount of payments in dollars you received</li> <li>in 2017, last year, from anyone or any entity</li> <li>involved in the development or sale of vaccines?</li> <li>A Of what?</li> </ul>
5 6 7 8	<ul><li>Pfizer. You indicated that you have received payments or remuneration from Pfizer?</li><li>A Yes.</li><li>Q Do you remember when you first received any payments from them or any remuneration?</li><li>A No, I don't recall what year that would</li></ul>	<ul> <li>received from the big four, can you tell me, what is</li> <li>the total amount of payments in dollars you received</li> <li>in 2017, last year, from anyone or any entity</li> <li>involved in the development or sale of vaccines?</li> <li>A Of what?</li> <li>Q From any entity involved in the</li> </ul>
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	Page 46		Page 47
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	you own any stock in any of those companies?	2	A Well, I was one of those who suggested
3	A No.	3	that an organization of laypeople, as opposed to
4	Q Any stock options?	4	scientists, would be a good idea to oppose all of
5	A No.	5	the nonsense that one sees on the web from
6	Q Has any educational or not-for-profit	6	anti-vaccination organizations.
7	institution in which you have been involved received	7	Q So it was your idea to create Voices for
8	funding from Sanofi?	8	Vaccines?
9	A That's a very difficult question to	9	A It wasn't my sole idea. It was a
10	answer. I don't inquire about the finances of the	10	suggestion that I made at a certain point. And it
11	organizations that I work for or that I advise. So	11	turned out that there were laypeople who were
12	I find that question very difficult to answer.	12	interested in promoting vaccines. Since then I've
13	I imagine that some of them do, but I	13	been on their advisory Board. But other than that,
14	have no knowledge of the matter. Voices for	14	I have no role in the organization.
15 16	Vaccines, for example, receives no funding from any	15 16	Q But you were, from what I'm understanding,
17	of the pharmaceutical companies, and that is in	17	tell me if I'm correct, it sounds like you were a
18	order to avoid any suggestion of a conflict of interest. I think that's probably true for a number	18	driving force in suggesting its creation and at
19	of the nonprofits I advise. But obviously it may	19	least initially A Yes.
20	not be true for companies.	20	Q getting it set up; is that correct?
21	Q So you're saying Voices for Vaccines	21	A Yes. Mm-hmm.
22	doesn't receive any funding from pharmaceutical	22	Q I'm going to hand you what has been marked
23	companies?	23	as Plaintiff's Exhibit 1.
24	A None.	24	(Exhibit Plaintiff-1 was marked
25	Q What's your affiliation with that group?	25	for identification.)
	Page 48		Page 49
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	MS. NIEUSMA: Amy, is that coming to my	2	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of
2 3	MS. NIEUSMA: Amy, is that coming to my email?	2 3	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of the Task Force for Global Health?
2 3 4	MS. NIEUSMA: Amy, is that coming to my email? MS. RUBY: It will be in just one moment.	2 3 4	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of the Task Force for Global Health? A Yes.
2 3 4 5	MS. NIEUSMA: Amy, is that coming to my email? MS. RUBY: It will be in just one moment. MS. NIEUSMA: All right.	2 3 4 5	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of the Task Force for Global Health? A Yes. Q And it receives funding from that
2 3 4	MS. NIEUSMA: Amy, is that coming to my email? MS. RUBY: It will be in just one moment. MS. NIEUSMA: All right. BY MR. SIRI:	2 3 4 5 6	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of the Task Force for Global Health? A Yes. Q And it receives funding from that organization, correct?
2 3 4 5 6 7	MS. NIEUSMA: Amy, is that coming to my email? MS. RUBY: It will be in just one moment. MS. NIEUSMA: All right. BY MR. SIRI: Q I'm going to hand you what's been marked	2 3 4 5 6 7	Stanley Plotkin, M.D. Voices for Vaccines is an administrative product of the Task Force for Global Health? A Yes. Q And it receives funding from that organization, correct? A No. It does not receive funding. The
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q Where there's expenses of \$3,757,924?	<sup>2</sup> not represent that Voices for Vaccines received
3	A Yes.	<sup>3</sup> funding from the Task Force for Global Health?
4	Q Do you see that one of the groups	<sup>4</sup> A As far as I am aware, that the Voices for
5	receiving part of that funding was, in the last	<sup>5</sup> Vaccines receives no funding from the task force.
6	line, Voices for Vaccines?	<sup>6</sup> The task force under Dr. Alan Hinman has agreed to
7	A I don't see where it says	<sup>7</sup> do the financial, whatever is required by the
8	Q Last sentence in 4C.	<sup>8</sup> government to do the financial work, for Voices for
9	A Voices for Vaccines is expanding its	<sup>9</sup> Vaccines.
10	educational outreach through new media and parenting	<sup>10</sup> But as far as I'm aware, it receives
11	networks, increasing its membership and its	<sup>11</sup> no funding from the task force or any other
12	on-the-ground reach.	<sup>12</sup> governmental or semi-governmental entity.
13	So?	<sup>13</sup> Q So the task force does provide some
14	Q If you go up to number four, Dr. Plotkin.	<sup>14</sup> support for Voices for Vaccines, correct?
15	Can you read what the items in that list are	<sup>15</sup> A It does.
16	supposed to be describing?	<sup>16</sup> MS. NIEUSMA: He already answered. He
17	A Expenses, including grants, revenues.	17 said he doesn't know.
18	So?	<sup>18</sup> MR. SIRI: Your objection is noted. Thank
19	Q I'll read to it you, number four. It	
20	says, number four says: Describe the organization's	<sup>19</sup> you. <sup>20</sup> BY MR. SIRI:
21	programs, service, accomplishments for each of its	21 Q The Task Force for Global Health, does the
22	three largest program services as measured by	Task Force for Global Health receive funding from
23	expenses.	<ul> <li>any of the big four pharmaceutical companies?</li> </ul>
24	A Yeah.	A I do not know for a fact, but I doubt it.
25		A I do not know for a fact, but I doubt it.
23	Q Are you claiming that this document does	<sup>25</sup> The task force, I know, secondhand. But I, I
	Page 52	Page 53
		1 age 33
1		
1 2	Stanley Plotkin, M.D.	
		<sup>1</sup> Stanley Plotkin, M.D.
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	Page 54	Page 5	55
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	force passes to Voices for Vaccines.	<sup>2</sup> And you indicated that would be	
3	Q Does the Task Force for Global Health	<sup>3</sup> difficult to answer.	
4	receive funding from Merck?	<sup>4</sup> Can you tell me but you did	
5	A Yes.	<sup>5</sup> indicate to me, and correct me if I'm saying I	
6	Q And from Pfizer?	<sup>6</sup> don't want to misspeak. But you indicated there a	are
7	A Apparently, yes.	<sup>7</sup> some groups that don't receive any funding from	
8	Q So the Task Force of Global Health	<sup>8</sup> pharmaceutical companies, correct? And you	
9	receives funding from pharmaceutical companies. And	<sup>9</sup> mentioned	
10	at the least, I'm understanding from you, provides	<sup>10</sup> A Correct.	
11	some kind of administrative support services to the	<sup>11</sup> Q Voices for Vaccines as the main one?	
12	Voices for Vaccines, correct?	<sup>12</sup> A Yes.	
13	A Correct.	<sup>13</sup> Q Is there any other education or nonprofit	
14	Q And one of the founding voices to create	<sup>14</sup> institution in which you've been affiliated that	
15	that organization was yourself, correct?	<sup>15</sup> you're aware of that does not and has not received	1
16	A I was one of those who suggested it, yes.	<sup>16</sup> funding from any of the, any vaccine company?	
17	Q And you received remuneration from	<sup>17</sup> A Well, I certainly advise the Gates	
18	pharmaceutical companies, correct?	<sup>18</sup> Foundation. I advise the National Institutes of	
19	A I do, yes.	<sup>19</sup> Health. I think those are the major institutions	
20	Q Does anybody that works for Voices for	<sup>20</sup> that are not in the business of, in the business of	
21	Vaccines strike that.	<sup>21</sup> developing vaccines. And they do not receive	
22	Going back to what we were	<sup>22</sup> funding from companies.	
23	discussing, I had asked you earlier, has any	<sup>23</sup> Q Does the NIH hold any patents on any	
24	educational or non-for-profit institution in which	24 vaccine-related technology?	
25	you have been involved received funding from Sanofi?	<sup>25</sup> A I believe they do, yes.	
	Page 56	Page 5	57
		5	
1		1 Stanlar Distland MD	
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	Stanley Plotkin, M.D. Q Do they receive royalties from those	<sup>2</sup> Q Which ones?	
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	Page 58	Page 59
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	intellectual property rights on what was	<ul> <li>any form you have directly or indirectly received</li> </ul>
3	A For varicella, no.	<sup>3</sup> from the sale of the rubella vaccine?
4	Q Have you developed or been part in any way	<sup>4</sup> A I cannot give you a figure. I would say
5	in the development of any vaccine from which you	<sup>5</sup> that I do not doubt. But, again, I'd have to ask my
6	have received any payment, revenue, or income	<sup>6</sup> wife. I do not doubt that they were substantial
7	related to the sale of that vaccine?	<ul> <li><sup>7</sup> amounts of money, and similarly for rotavirus and</li> </ul>
8	A Yes. Although I should stipulate that all	<sup>8</sup> rabies.
9	of the patents on vaccines that I've developed have	<sup>9</sup> Q Was it in the millions of dollars for
10	been taken out by the institutions for which I was	<sup>10</sup> rubella? Just rubella.
11	working and that they gave me and I stress that	$^{11}$ A I don't think so. That's all I can say.
12	it was not a requirement, but they gave me part of	$^{12}$ I don't think so.
13	the profits deriving from the patents.	<sup>13</sup> Q Are you in the possession of documents
14	Q Which were those?	<sup>14</sup> that would illuminate how much you've received in
15	A Sorry?	<sup>15</sup> payments from the sale of the rubella vaccine?
16	Q Which vaccines are those?	<sup>16</sup> A Probably. I hope they have been retained.
17	A Mainly rubella, rotavirus, and rabies.	<sup>17</sup> I don't know. But I imagine.
18	Q And the rubella vaccine that you developed	<sup>18</sup> Q And do you continue to receive any
19	is currently used as part of the MMR vaccine?	<sup>19</sup> payments from the sale or royalties or any other
20	A Correct.	<sup>20</sup> remuneration from the sale of the rubella vaccine?
21	Q And this is one of the vaccines you	<sup>21</sup> A Currently, I don't think so.
22	believe Faith's pediatrician should purchase and	<sup>22</sup> Q When did it cease?
23	administer to her?	<sup>23</sup> A Oh, Jesus, I couldn't tell you exactly.
24	A Absolutely.	<sup>24</sup> Sometime during this century. I don't know. You
25	Q What is the total amount of payments in	<sup>25</sup> know, if I had thought that this was going to be
	Page 60	Page 61
1	Page 60 Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
1 2		
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. about my finances, I would have had my wife come along because I don't follow these things. And certainly what I've done has not been based on what remuneration I could receive from the work that I've done. So if you want financial details, I will have to collect them in some other form. But Q How do you think your wife would feel of you offering her up for a deposition? A I don't think she would like it very much. Q That wasn't a serious question. MR. SIRI: Okay. I'll request those documents. BY MR. SIRI: Q Now, do you have you said that you're not sure whether it was in the millions of dollars that you've received from the sale of rubella, correct? A Correct. Q But it could have been? A I doubt it, but it could have been. I	1Stanley Plotkin, M.D.2AThe Wistar Institute.3QDid it come from any other source other4than Wistar?5AI don't think so because the Wistar holds6the patent.7QWere you listed as one of the patent8AOne of the inventors?9QOne of the inventors?9QOne of the inventors?10AI believe so, yes.11QBut the Wistar was the assignee; is that12right?13A14QQAnd so they received the they're the15ones who had the, gave the license to Merck?16A17QQSo Merck would pay Wistar, and then Wistar18would remit some of that to you; is that correct?19A10That's correct. I'm trying to recall20whether Children's Hospital was involved. I don't21think so at that point because that was many years22ago.23Q24And you indicated that you've also

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1       Stanley Plotkin, M.D.       1       Stanley Plotkin, M.D.         2       A       I couldn't tell you exactly, but it's been         4       Q       Has it been in the millions?         5       Currently on the market in the U.S.?       A         6       A       Yes.         7       Q       And you obtained a pattent for RotaTeq?         8       A       Wistar and Children's Hospital developed patterns.         9       Q       Who is listed as the inventor or co-inventors?       Q         2       A       Myself, Paul Offit and Fred Clark.       Q         3       Q       Who are the assignces of the patent for       The sale of RoaTeq?         7       A       Assignce, you mean who used the -       Q       VMult portion from the sale of RoaTeq?         8       Woll, you know, wheny on fite patent, if that's what you mean.       Q       A wes.       Q       How much remuncration to date have you receiver even and Children's Hospital if that's what you mean.         2       A       Well, you know, wheny on fite patent, if there store, one a ime where CHOP received from sales of RoaTeq?       A       I don't know.         3       A       Vell, was known one dapproximately it was sold for?       A       I don the sale of RoaTeq?         4       Yes.<		Page 62	1	Page 63
2       A       Yes.         3       Q       That's, and I think you suid carlier         4       A       I couldn'rell you exactly, but it's been         3       Q       That's, and I think you suid carlier         4       Massian et al. Science       A         5       currently on the market in the U.S.?       A         6       A       Yes.         7       Q       And you obtained a patent for RotTeq?         8       A       Mistar and Children's Hospital diveloped         9       Parates.       Q         10       O       Yes.         11       Q       Who is thisted as the inventor or       Children's Hospital of Philadelphia, is that sometimes referred to as CHOP?         12       A       Myscli, Faul Ollit and Fred Clark.       12       Q         13       A       Myscli, Faul Ollit and Fred Clark.       12       Q         14       Pow or the assigneet of the patent, ther's usually an inventor listed and then there's wasually an inventor listed and then there's wasually an inventor listed and then there's wasually an inventor listed and then there's wason on thildren's Hospital of Philadelphia, it has an onter.       Q       O oy ou have may reason to doubt that CHOP received from the sale of RotaTeq?         14       Q       O wenthe patent?       A<	1	Stanley Plotkin M D	1	Stanley Plotkin, M.D.
3       Q. That's, and I think you said earlier       a considerable anouni.         4       that's currently on the market in the U.S.?       Q. Has'i been in the millions?         5       a. Yes.       Q. Has'i been in the millions?         6       A. Yes.       Q. Has'i been in the millions?         7       Q. And you obtained a patent for RotaTeq?       A. Wistar and Children's Hospital developed         9       patents.       Q. CHOP was entitled - so you indicated that         10       Q. Who is listed as the inventor or       C.Didren's Hospital of Philadelphia, is that         11       co-inventors?       Q. CHOP was entitled to receive revenue from         12       A. Mysclf, Faul Offit and Fred Clark.       Q. What portion from the sale of RotaTeq?         13       A. Assignees, you mean who used the       -         14       Mell, the patent is assigned to.       -         15       A. Well, patents were taken out by Wistar       -         14       Mell, the patent is assigned to.       -         15       A. Well, the patent is assigned to.       -         16       How mech remuneration to date have you       -         17       A. Yes.       -         18       Well, the patent is assigned to.       -         19       No.	2	•	2	-
4       that's currently one of two rotavins vaccines       4       Q. Has it been in the million?         5       currently on the market in the U.S.?       A. Hesitate to say exactly. It could be,         7       Q. And you obtained a patent for RotaTeq?       A. Mystar and Children's Hospital diveloped patents.         9       patents.       Q. You were entitleds oyo indicated that         10       Q. Who is its da as the inventor or       Children's Hospital diveloped         12       A. Mystif, Paul Offit and Fred Clark.       Page 64         13       Q. Who are the assignees of the patent, for       A sesignees, you mean who used the         14       Q. Well, you know, when yon file a patent, for       A well, he patents were taken out by Wistar         14       M. Well, the patents were taken out by Wistar       A well, as I understand ii, 50 percent.         15       A. Well, the patents were taken out by Wistar       A loan't how.         14       Q. Okay. And so they were the ones who had       Do you know how much revenue CHOP received         15       A Yes.       Q. Do you know how much revenue CHOP received         16       Yes.       Q. Do you know how much revenue CHOP received         17       A Yes.       Q. Do you know how much revenue CHOP received         18       Yes.       Q. Do you know how much revenue CHOP received <th></th> <th></th> <th>3</th> <th></th>			3	
s       currently on the market in the U.S.?       5       A Thesitate to say exactly. It could be,         6       A Yes.       5       but I really do not know.         7       Q And you obtained a patent for RotaTeq?       A Wistar and Children's Hospital developed         7       Q Who is listed as the inventor or       Children's Hospital developed         7       Q Who is listed as the inventor or       Children's Mospital for Patentions referred to as CHOP?         12       A Myself, Paul Offit and Fred Clark.       Q CHOP was entitled to receive revenue from         12       A Myself, Paul Offit and Fred Clark.       Q Well, you know, when you file a patent,         13       A Assigness, you mean who used the       Q Wall, you know, when you file a patent,         14       Q Well, you know, when you file a patent,       A Hoan thasso of RotaTeq?         15       A Yes.       Q Do you know how much revenue CHOP received         16       A Yes.       Q Do you know how much revenue CHOP received         17       the rights to the patent?       Q Did here ever come a time where CHOP sold         18       Was sold for?       A Idon t.         19       Page 64       Stanley Plotkin, M.D.         20       Q How much remumeter how marked       for identification.)         31       Page 64			1	
<ul> <li>Currently on the marker in the Cost.</li> <li>A Yes.</li> <li>Q And you obtained a patent for RotaTeq?</li> <li>A Wistar and Children's Hospital of Philadelphia, is that sometimes referred to as CHOP?</li> <li>Q Who is the assignees of the patent for conventors?</li> <li>A Myself, Paul Offit and Fred Clark.</li> <li>Q Who are the assignees of the patent for RotaTeq?</li> <li>A Assignees, you mean who used the</li></ul>		•	1	
7       Q       You were entitled -so you indicated that         8       A       Wistar and Children's Hospital developed         9       patents.       Children's Hospital developed         10       Q       Who is listed as the inventor or       Children's Hospital of Philadelphia, is that         12       A       Myself, Paul Offit and Fred Clark.       Children's Hospital of Philadelphia, is that         13       Q       Who are the assignees of the patent for       Children's Hospital of Philadelphia, is that         14       Q       Woh are the assignees of the patent for       Children's Hospital, if that's whony our life a patent,         15       A       Assignees, you mean who used the       Q       Well, you know, wheny you file a patent,         16       Q       Well, you know, wheny you file a patent,       Q       Q       Well, the patent is assigned to.         16       Q       Nes, Statents were taken out by Wistar       A       I don't know.         12       A       Yes.       Q       Do you know how much revenue CHOP received         14       How much remuneration to date have you       Page 64       I don't know.         15       Stanley Plotkin, M.D.       Q       Do you know how much revenue CHOP sold its         16       for identification.).       <		•	1	
a       A       Wistar and Children's Hospital developed       a       Children's Hospital of Philadelphia, is that         9       Q       Who is listed as the inventor or       sometimes referred to as CHOP?         11       Conventors?       A       Yes.         12       A       Myself, Paul Offit and Fred Clark.       O       CHOP emitted to?         13       A       Yes.       Q       Who are the assignees of the patent for       Stanley Plotkin, Mp.         14       RotaTeq?       A       Yes.       O       A Weil, as lunderstand it, 50 percent.         14       P       Who you, the patent is assigneed to.       CHOP emitted to?       A       Weil, as lunderstand it, 50 percent.         15       CHOP emitted to?       A       Weil, as lunderstand it, 50 percent.       A       Weil, as lunderstand it, 50 percent.         16       m Children's Hospital, if that's what you mean.       A       Idon't know.       O       D by ou know how much revenue CHOP received         16       received from sales of RotaTeq?       A       Idon't know.       Page 65         14       received from sales of RotaTeq?       A       Idon't know.       Page 65         14       Kesting inf at's what you mean.       Page 65       A       Idon't creason to doubt it.			1	-
9     patents.     9     sometimes refered to as CHOP?       10     Q     Who is listed as the inventor or     10     A       12     A     Myself, Paul Offit and Fred Clark.     11     Q     CHOP was entitled to receive revenue from       13     Q     Who is near the assignees of the patent for     13     A     Yes.       14     Q     Well, you know, when you file a patent, there's usually an inventor listed and then there's     13     A     Yes.       15     A     A Segments, savignees, you mean who used the     14     Q     A     Well, you know, when you file a patent, there's usually an inventor listed and then there's and Children's Hospital, if that's what you mean.     2     A     Well, you know, when you who the patent?       15     A     Yes.     2     A     I don't know.       14     D     Q     Ox you know much revenue CHOP received       15     How much remuneration to date have you     14     I is interest in he RotaTeq?       16     A     Yes.     2     A     I don't know.       17     Q     Do you renember how much approximately it was solf for?     3     A       16     G     The gene 64     3     A       17     Stanley Plotkin, M.D.     2     A     I ado not.       18			1	· ·
10       Q       Who is listed as the inventor or co-inventors?       10       A Yes.         11       Q       CHOP was entitled to receive revenue from the sale of RotaTeq?         13       A Myself, Paul Offit and Fred Clark.       11       Q       CHOP was entitled to receive revenue from the sale of RotaTeq?         14       RotaTeq?       13       A Yes.       14       Q       Who is listed as the inventor sited and then there's who you, the patent is assigned to.       14       Q       Wata portion from the sale of RotaTeq?         15       A Well, the patents were taken out by Wistar and the intere's who you, the patent?       16       A Well, as 1 understand it, 50 percent.         16       Q       Okay. And so they were the ones who had the regits to the patent?       20       Q and what percinon from the sale of RotaTeq?         17       Q       Okay. And so they were the ones who had the regits to the patent?       20       Q and what percent of that 50 were you entitled to?         16       A Yes.       14       140 not.       20       Q bo town much revenue CHOP received from the sale of RotaTeq?         17       Q       Okay. And so they were the ones who had the regits in the receive or one at ime where CHOP sold its interest in RotaTeq?       21       A 1 do not.         16       A No.       Yes.       Yes.       1 believe so, yes.	8	A Wistar and Children's Hospital developed	1	
11       co-inventors?       11       Q       CHOP was entitled to receive revenue from         12       A       Mysell, Paul Offit and Fred Clark.       11       Q       CHOP was entitled to receive revenue from         13       Q       Who are the assignees of the patent for       A       Yes.         14       P       Q       What portion from the sale of RotaTeq?       A       Yes.         14       M well, yeb patent is assigned to.       A       Well, you know, when you file a patent, there's usually an inventor listed and then there's who you, the patent?       A       Well, you know, when you file a patent, there's usually an inventor listed and then there's who you, the patent?       A       Net.       A       Well, you know, when you were the ones who had the ights to the patent?       A       I do not.       A       I do not ereceivel participa in a season in the word.       A       I do not ereceived in the was anot down in the word.       A	9	-	9	
12       A Myself, Paul Offit and Fred Clark.       12       the sale of RotaTeq?         13       Q Who are the assignces of the patent for       A Yes.         14       Q Wath you know, when you file a patent,       15       A Well, you know, when you file a patent,         15       A Assignces, you mean who used the       6       Q What portion from the sale of RotaTeq?         16       Q Wath, you know, when you file a patent,       15       A Well, the patent is assigned to.         16       M Well, the patent is assigned to.       2       A Well, the patent were taken out by Wistar         20       Q Okay, And so they were the ones who had       16       Form the sale of RotaTeq?         24       Q How much remuneration to date have you       24       A I don't know.         25       received from sales of RotaTeq?       2       A I don't know.         26       M How much remuneration to date have you       24       A I don't know.         27       Page 64       Stanley Plotkin, M.D.       2       A No.         28       Stanley Plotkin, M.D.       2       A No.         39       Stanley Plotkin, M.D.       2       A No.         40       Do you have any reason to doubt hit.       6         5       Geroi dentification.)       7	10	Q Who is listed as the inventor or	10	A Yes.
13       Q       Who are the assignees of the patent for       13       A       Yes.         14       RotaTeq?       Q       Wata portion from the sale of RotaTeq was         15       A       Assignees, you mean who used the       Q       Well, you know when you file a patent,         16       Q       Well, you know the sate of RotaTeq       A       Well, as I understand it, 50 percent.         16       A       Well, as I understand it, 50 percent.       Q       A well, as I understand it, 50 percent.         17       there's usually an inventor listed and then there's       who you, the patent is assigned to.       A       Well, you know how much revenue CHOP received         16       A       Well, the patents were taken out by Wistar       A       I don't know.         20       Q (bay, And so they were the ones who had       C       Q       Do you know how much revenue CHOP received         21       A       Yes.       A       I do not.       C       A       I do not.         22       A       Yes.       A       I do not.       C       A       I do not.       C         22       A       No.       S       Q       Do you remember how much approximately it       S       A       I do not.       C       G       Do yo	11	co-inventors?	11	Q CHOP was entitled to receive revenue from
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	Page 66	Page 6	57
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	was relevant to my opinion as to whether a child	$^2$ that, too.	
3	should receive vaccines. Vaccines have to be made	<sup>3</sup> A Well, you can certainly buy a copy of a	
4	by somebody. And, of course, in this world they're	<sup>4</sup> Vaccines textbook, which contains thousands of	
5	made by pharmaceutical companies who make profits on	<sup>5</sup> references showing that vaccines work and are saf	e.
6	vaccines.	<sup>6</sup> Q So from the \$182 million sale to CHOP	
7	And the fact that they make profits	<sup>7</sup> that CHOP made to Royalty Pharma, do you belie	ve
8	on vaccines has no bearing on whether those vaccines	<sup>8</sup> that you received more or less than a million	
9	are good for a child or not.	<sup>9</sup> dollars?	
10	$\vec{Q}$ So you think the fact that pharmaceutical	<sup>10</sup> A I could have received more than a million	
11	companies make money on vaccines doesn't bias how	<sup>11</sup> dollars. I don't have an exact figure.	
12	they approach the promotion of their own products?	<sup>12</sup> Q You stated earlier your co-inventor on	
13	A I imagine it biases them in favor of	<sup>13</sup> this was Paul Offit?	
14	vaccines, but so does most of the scientific world.	$^{14}$ A Yes.	
15	Q Are you saying most of scientific world is	<sup>15</sup> Q Were you entitled to similar remuneration	
16	biased because of financial	<sup>16</sup> as he was?	
17	A No.	$^{17}$ A Yes.	
18	Q conflicts of interest?	<sup>18</sup> Q Are you aware that he has stated publicly	
19	A I'm saying most of the scientific world	<sup>19</sup> how much he's received from that sale?	
20	believes that vaccines protect children against	$^{20}$ A I am not aware that he has.	
21	serious diseases.	<sup>21</sup> Q If I told you he said that he received	
22	Q Do you have a peer-reviewed study that	<sup>22</sup> approximately \$6 million, would that	
23	actually supports what you just said?	<sup>23</sup> A Mm-hmm.	
24	A Absolutely, yes.	$^{24}$ Q would that help you recall how much you	
25	Q Okay. Good. We'll make a demand for	<sup>25</sup> received?	u
	Q Okay. Good. We if make a demand for		
	Page 68	Page 6	59
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
1 2	Stanley Plotkin, M.D. A Not really, but I believe whatever Paul	Stanley Flotkin, W.D.	
	Stanley Plotkin, M.D. A Not really, but I believe whatever Paul has said I'm sure is correct.	<sup>2</sup> A I don't think I received anything in the	
2	A Not really, but I believe whatever Paul has said I'm sure is correct.	<ul> <li>A I don't think I received anything in the</li> <li>last couple of years, but I have in the past.</li> </ul>	
2 3	A Not really, but I believe whatever Paul	<ul> <li>A I don't think I received anything in the</li> <li>last couple of years, but I have in the past.</li> </ul>	
2 3 4	<ul><li>A Not really, but I believe whatever Paul has said I'm sure is correct.</li><li>Q So is \$6 million a lot of money, in your</li></ul>	<ul> <li>A I don't think I received anything in the</li> <li>last couple of years, but I have in the past.</li> <li>Q How much approximately have you received</li> </ul>	
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Which ones?

Q So all of them?

you received Exhibit 6.

MS. RUBY: Ms. Nieusma, can you confirm

MS. NIEUSMA: Haven't gotten it yet, but I

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Seqirus.

A Yes.

	Page 70		Page 71
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Exhibit 5?	2	Q Do you think it was sizable?
3	MS. NIEUSMA: I did. I believe Exhibit 5	3	A I think it was probably sizable, yes.
4	I have, yep, just got it.	4	Q More than a few hundred thousand?
5	MS. RUBY: Thank you.	5	A I think so. I don't have a figure in my
6	BY MR. SIRI:	6	head.
7	Q Can you please read the first sentence of	7	Q Do you have documents that would indicate
8	the article, Dr. Plotkin.	8	how much you received?
9	A The Wistar Institute today announced that	9	A I would imagine so, yes.
10	it sold a portion of its anticipated worldwide	10	MR. SIRI: We'll make a request for those
11	royalty revenues from RotaTeq to an affiliate of the	11	as well.
12	Paul Royalty Fund for \$45 million.	12	BY MR. SIRI:
13	Q Does that refresh your recollection of how	13	Q Are you familiar with the Immunization
14	much they received for selling a portion of their	14	Action Coalition?
15	interest in RotaTeq?	15	A Yes.
16	A I know that they sold it. I don't have in	16	Q What is your understanding of what this
17	my head how much they sold it for. But I presume	17	group does?
18	this is correct.	18	A They promote vaccination through education
19	Q The Wistar Institute is entitled to what	19	and emails and meetings.
20	percentage of the sales from the RotaTeq?	20	Q Would you say it's one of the main
21	A I do not know.	21	advocacy groups for vaccines in this country?
22	Q From this \$45 million sale, any	22	A I think it's an important one, yes.
23	recollection at all of how much you received?	23	Q Does it receive funding from
24	A No recollection. I'm sure I received	24	pharmaceutical companies?
25	some.	25	A I believe I think so. I'm not certain.
	Page 72		Page 73
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	I don't know exactly where their financing comes	2	should have it in just a second.
3	from, but I think they very well may.	3	Got it.
4	(Exhibit Plaintiff-6 was marked	4	MS. RUBY: Thank you.
5	for identification.)	5	BY MR. SIRI:
6	BY MR. SIRI:	6	Q Do you know approximately what percent of
7		7	Immunization Action Coalition's funding comes from
8	Q I'm going to hand you what's been marked	8	those pharmaceutical companies?
9	as Plaintiff's Exhibit 6. It's a printout from the	9	A No idea.
10	Immunization Action Coalition web page showing their	10	Q Can you name me a major medical group,
11	funding for 2017. If you could kindly take a look	11	such as the American Academy of Pediatrics or
12	at that and the section that says, that lists the	12	similar, that you know does not receive any funding
13	pharma company donors.	13	from any pharmaceutical company?
14	A Mm-hmm.	14	A Well, inasmuch I do not know what
15	Q Are any of the companies listed there	15	organizations receive what funding, I really can't
16	vaccine manufacturers trying to develop vaccines?	16	answer that question.
17	A Yes.	17	Q Sitting here today, you don't know of one?

ote vaccination through education etings. say it's one of the main or vaccines in this country? in important one, yes. eive funding from npanies? I think so. I'm not certain. Page 73 otkin, M.D. just a second. Thank you. w approximately what percent of on Coalition's funding comes from al companies? ne me a major medical group, an Academy of Pediatrics or ow does not receive any funding utical company? uch I do not know what ve what funding, I really can't n. today, you don't know of one? 18 A I don't know what funding, for example, 19 AAP receives from manufacturers, no. A AstraZeneca, Glaxo, Merck, Pfizer, Sanofi, 20 Q So sitting here today, you're not aware of

any medical group that does not receive any support from pharmaceutical companies, correct? A I am not aware of the funding of medical organizations and whether or not they receive

funding from pharmaceutical companies.

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	Page 74		Page 75
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q So just to recap, I think it would be	2	Q Nobody is suggesting that, Dr. Plotkin.
3	correct to say that you've received in total from	3	I'm just asking you
4	the companies that develop or manufacture vaccines	4	A Baloney, you are suggesting that.
5	payments or remuneration at least in the amount of a	5	That's
6	few million dollars, correct?	6	Q You're suggesting that.
7	A I think it's correct to say that since I	7	Dr. Plotkin, you indicated that a lot
8	left Children's Hospital in the 1990s, I have	8	of the remuneration you received is from the 1990s.
9	received considerable funding for my work in	9	Have you received any funding from the big four
10	developing vaccines and in advising companies how to	10	
11	developing vaccines and in advising companies now to develop vaccines, and I have also given advice	11	pharma companies or their predecessors before 1990? A I would say probably not. You know, it's
12		12	
13	freely to organizations that could not pay me	13	very hard to remember that far back. But certainly
14	because I believe that vaccines are important to the	14	not any substantial funding. I may have received
15	health of children and adults.	15	honoraria for attending meetings in those days, but
16	Q So the answer is yes?	16	certainly nothing, nothing considerable.
17	A The answer is yes, but I wish to say very	17	At that point I was working at the
18	clearly that none of the things that I have done	18	University of Pennsylvania and the Children's
	have been done with the objective of gaining money.		Hospital and the Wistar Institute and was, of
19	It has been my fortune that I have	19	course, paid by those entities.
20	been rewarded financially for the work that I've	20	MR. SIRI: Could you read the last answer
21	done. But none of the things that I've done have	21	back for me, please.
22	been done for financial gain. And I resent very	22	
23	much the line of questioning that suggests that what	23	(Whereupon, the Reporter read
24	I believe and what I've done have been done for	24	back a preceding portion of the
25	financial reasons.	25	testimony as directed:
	Page 76		Page 77
	5		10,90,77
1		1	
1 2	Stanley Plotkin, M.D.	1 2	Stanley Plotkin, M.D.
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2 3	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to	2 3	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall.
2 3 4	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to remember that far back. But	2 3 4	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get
2 3 4 5	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to remember that far back. But certainly not any substantial	2 3 4 5	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get funding for the work on the rubella vaccine, right?
2 3 4 5 6	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to remember that far back. But certainly not any substantial funding. I may have received	2 3 4 5 6	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get funding for the work on the rubella vaccine, right? A I don't believe I had any funding until it
2 3 4 5 6 7	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to remember that far back. But certainly not any substantial funding. I may have received honoraria for attending meetings	2 3 4 5 6 7	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get funding for the work on the rubella vaccine, right? A I don't believe I had any funding until it was eventually licensed by Merck.
2 3 4 5 6 7 8	Stanley Plotkin, M.D. "A. I would say probably not. You know, it's very hard to remember that far back. But certainly not any substantial funding. I may have received honoraria for attending meetings in those days, but certainly	2 3 4 5 6 7 8	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get funding for the work on the rubella vaccine, right? A I don't believe I had any funding until it was eventually licensed by Merck. Q When was that?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Stanley Plotkin, M.D.</li> <li>"A. I would say probably not. You know, it's very hard to remember that far back. But certainly not any substantial funding. I may have received honoraria for attending meetings in those days, but certainly nothing, nothing considerable. At that point I was working at the University of Pennsylvania and the Children's Hospital and the Wistar Institute and was, of course, paid by those entities.")</li> <li>BY MR. SIRI:</li> <li>Q Did you receive any funding from any pharmaceutical company related to the development of vaccines before 1990?</li> <li>A I don't recall receiving any funding for the development of rubella vaccine before it was licensed and then funding passed through Wistar. As far as rotavirus is concerned, I</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. funding for rabies. That's as much as I can recall. Q But you indicated that you didn't get funding for the work on the rubella vaccine, right? A I don't believe I had any funding until it was eventually licensed by Merck. Q When was that? A That was about 1970 early '70s. Q So from the early '70s, you were receiving funding, you're saying, from Merck related to rubella? A No. Wistar was receiving funding. Q Wistar from Merck? A Yes. Q Got it. But before that? A Merck did not fund the development of rubella vaccine until it was licensed. MS. RUBY: Ms. Nieusma, you should have Exhibit 7. (Exhibit Plaintiff-7 was marked for identification.) BY MR. SIRI:

1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	MS. NIEUSMA: Just got it.	2	Q Does that refresh your recollection now of
3	BY MR. SIRI:	3	maybe what was an earlier time that you received
4	Q Can you read the title of the article,	4	funding from pharmaceutical companies towards
5	please.	5	development related to a vaccine?
6	A Attenuation of RA 27/3 Rubella Virus in	6	A Yes. I
7	WI-38 Human Diploid Cells.	7	Q Okay.
8	Q Who is the first listed author?	8	A I did have some funding from GSK, but they
9	A I am.	9	had their own candidate rubella vaccine.
10	Q What is the year of this publication?	10	(Exhibit Plaintiff-8 was marked
11	A 1969.	11	for identification.)
12	Q And if you go to the, if you go to the	12	BY MR. SIRI:
13	summary you know what? Dr. Plotkin, let me	13	Q Dr. Plotkin, I'm going to hand you what
14	may I	14	has been marked as Plaintiff's Exhibit 8.
15	A Oh, yes.	15	MS. RUBY: Ms. Nieusma, did you receive
16	Q Does it say there that Mr. Plotkin is a	16	that Exhibit 8?
17	recipient of an award from Smith, Kline is that a	17	MS. NIEUSMA: I'm sure I will.
18	predecessor to GSK?	18	MS. RUBY: It might take a second. It's
19	A Yes, it is.	19	Dr. Plotkin's Curriculum Vitae.
20	Q Okay.	20	MS. NIEUSMA: I've got a copy of that
21	and French, Inc., Philadelphia,	21	already.
22	for research on rubella vaccine, correct?	22	MS. RUBY: Thank you.
23	A Yes. Unfortunately, that was not the	23	BY MR. SIRI:
24	vaccine that eventuated; in other words, the RA 27/3	24	Q This is your CV, correct, Dr. Plotkin?
25	was not the really the product of any GSK funding.	25	A Yes.
	that has the rearry are produce of any correlationing.		
	Dece 90		
	Page 80		Page 81
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. Q Did you update this CV recently?	2	Stanley Plotkin, M.D. A Well, June 2017.
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2 3 4	Stanley Plotkin, M.D. Q Did you update this CV recently? A I think it was updated last year, but I'm not sure exactly. It probably doesn't have every	2 3 4	Stanley Plotkin, M.D. A Well, June 2017. Q The articles, if you go to article 794, Rodrigues, Pinto.
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2 3 4 5 6 7	Stanley Plotkin, M.D. Q Did you update this CV recently? A I think it was updated last year, but I'm not sure exactly. It probably doesn't have every last publication. Q On the first page in the top right corner, do you see the date?	2 3 4 5 6 7	Stanley Plotkin, M.D. A Well, June 2017. Q The articles, if you go to article 794, Rodrigues, Pinto. A Yeah. Q Do you know what month of the year that was published?
2 3 4 5 6	Stanley Plotkin, M.D. Q Did you update this CV recently? A I think it was updated last year, but I'm not sure exactly. It probably doesn't have every last publication. Q On the first page in the top right corner, do you see the date? A June 2017.	2 3 4 5 6	Stanley Plotkin, M.D. A Well, June 2017. Q The articles, if you go to article 794, Rodrigues, Pinto. A Yeah. Q Do you know what month of the year that was published? A No.
2 3 4 5 7 8 9	Stanley Plotkin, M.D. Q Did you update this CV recently? A I think it was updated last year, but I'm not sure exactly. It probably doesn't have every last publication. Q On the first page in the top right corner, do you see the date?	2 3 4 5 6 7 8 9	Stanley Plotkin, M.D. A Well, June 2017. Q The articles, if you go to article 794, Rodrigues, Pinto. A Yeah. Q Do you know what month of the year that was published?
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q You have a number of faculty appointments	<sup>2</sup> A Vaccines. I don't remember the exact
3	at a number of universities I see here; one, two,	<sup>3</sup> name. But it's essentially a course in vaccines.
4	three, four, five, six, seven, eight, nine, ten, 11,	<sup>4</sup> Q How many days a week does the class meet?
5	12, 13. Any of the faculty appointments missing	<sup>5</sup> A Oh, two days. Two days a week.
6	from this list?	<sup>6</sup> Q I see you have a number of hospital and
7	A I don't think so.	<sup>7</sup> administrative appointments. One, two, three you
8	Q I also see that there's, there's, you have	<sup>8</sup> have six of them, right? It looks like they're all
9	a professor emeritus position at University of	<sup>9</sup> at the Children's Hospital of Philadelphia and then
10	Pennsylvania and Wistar. Do you teach any courses	<sup>10</sup> Department of Pediatric any of your hospital
11	there?	<sup>11</sup> administrative appointments missing from this list,
12	A Yes.	<sup>12</sup> Dr. Plotkin?
13	Q Do you continue to teach any courses?	<sup>13</sup> A No, I don't think so. I do have an
14	A Yes.	<sup>14</sup> appointment at Johns Hopkins, but, yeah.
15	Q What do you teach there?	$^{15}$ Q What is that?
16	A Participate in the vaccine course at the	<sup>16</sup> A I'm an adjunct professor.
17	university and essentially give advice to Wistar.	17 Q Since when?
18	Q And for the university, did you teach a	<sup>18</sup> A I think sometime in the 2000s.
19	course last semester?	<sup>19</sup> Q I see you have positions in industry
20	A Yes.	<sup>20</sup> listed, correct?
21	Q Have you been doing that every year for	$^{21}$ A Yes.
22	the last	<sup>22</sup> Q I see two of them. I see one is from 1991
23	A Pretty much, yes.	<sup>23</sup> to 1997, the medical and scientific director at the
24	Q few years?	<sup>24</sup> Sanofi
25	What's the name of the course?	$^{25}$ A Yes.
	Page 84	Page 85
1		
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q This is a for-profit company?	2	Q What is MyMetics?
3	A Yes.	3	A MyMetics is a biotech in Europe.
4	Q Right. And it's involved in the	4	Actually, I haven't done anything for them in at
5	development of vaccines, right?	5	least a year now. But I think I'm still officially
6	A Yes.	6	on their Board.
7	Q You're on the Board of directors of this	7	Q You're chairman of their scientific
8	company, correct?	8	advisory Board, correct?
9	A Correct.	9	A As I said, I haven't done anything for
10	Q That affiliation is not disclosed on the	10	them for at least a year. So if that is correct,
11	CV, correct?	11	that's sort of an old thing.
12	A It's not on the CV, no.	12	Q But they're a for-profit company?
13	Q What is VBI Vaccines?	13	A Yes.
14	A Variation Bio.	14	Q And how long were you on their Board?
15	Q Okay. And what is that?	15	A Couple of years. I don't remember
16	A That's a biotech developing vaccines.	16	exactly.
17	Q And this is a for-profit company as well,	17	Q But that affiliation is not on your CV,
18	correct?	18	correct?
19	A Yes.	19	A No.
20	Q And you are also on the Board of Directors	20	Q Dynavax Technologies, what have you done
21	of this company, right?	21	for them?
22	A Yes.	22	A Dynavax, I've been on their Board.
23	Q And that affiliation is not disclosed in	23	Q You attend the Board meetings?
24	your CV, correct?	24	A Not recently, but, yes, in the past.
25	A It is not in my CV, no.	25	Q Have you advocated on their behalf?
	Page 88		Page 89
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Yes.	2	A No.
3	Q Have you done that in any government	3	Q What's CureVac AG?
4	meetings, for example?		
_		4	A It's also a biotech.
5	A Yes. Yes.	5	Q Is it a for-profit company?
6	<ul><li>A Yes. Yes.</li><li>Q To seek licensure of the vaccine?</li></ul>	5 6	<ul><li>Q Is it a for-profit company?</li><li>A Yes.</li></ul>
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	Page 90		Page 91
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A It's also a biotech.	2	A Yes.
3	Q Is it a for-profit company?	3	Q Were you on the Board of this company as
4	A Yes.	4	well?
5	Q Is it involved in the development of	5	A Yes.
6	vaccines?	6	Q Did you, is that disclosed in your CV?
7	A Yes.	7	A No.
8	Q What's your affiliation with that company?	8	Q What is Adjuvance Technologies? That's
9	A I've been an advisor, and I think I'm	9	A-D-J-U-V-A-N-C-E, Technologies?
10	officially on their Board. They're trying to	10	A It's a company trying to developed
11	develop a vaccine against HIV.	11	adjuvants for vaccines.
12	Q Was this association disclosed in your	12	Q Is it a for-profit company?
13	CV no, right?	13	A Yes.
14	A No. I don't have my consultancies on my	14	Q You're on the Board of this company as
15	CV.	15	well, right?
16	Q You're on the Board of these companies,	16	A Yes.
17	correct?	17	Q And that affiliation isn't disclosed in
18	A Yes.	18	your CV either, right?
19	Q What is GlycoVaxyn AG? That's G-L-Y-C-O,	19	A No.
20	then capital V, A-X-Y-N AG?	20	Q What is BioNet-Asia?
21	A It was a biotech in Europe.	21	A A company developing a new pertussis
22	Q Is it a for-profit company?	22	vaccine.
23	A It was.	23	Q This is a for-profit company as well?
24 25	Q Okay. Was it involved in the development	24 25	A Yes.
20	of vaccines?	23	Q And you're on the Board of this company as
	Page 92		Page 93
1		1	
1 2	Page 92 Stanley Plotkin, M.D. well?	1 2	Stanley Plotkin, M.D.
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D. A Yes. It's a European biotech.
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	Page 94		Page 95
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q How long does the current immunity last	2	tape No. 2 of the deposition of Dr. Stanley
3	from the current acellular pertussis vaccine?	3	Plotkin. We are on the record. The time is
4	A Well, it lasts for probably on the order	4	10:42.
5	of five years, but the efficacy diminishes after two	5	MR. SIRI: Thank you.
6	years or so. And the result is that there have been	6	BY MR. SIRI:
7	more pertussis in adolescents than we would like.	7	Q Apologies, again, for cutting off the
8	Q So when you say after five years immunity	8	answer to your last question. The tape needed to be
9	is gone in two years, the efficacy, do you mean	9	changed.
10	after how many dose the four- or five-dose	10	MR. SIRI: If you could kindly read back
11	DTaP series?	11	the last question to give Dr. Plotkin an
12	A Well, I should go into some detail. The	12	opportunity to respond.
13	first	13	
14	VIDEO OPERATOR: Thirty seconds.	14	(Whereupon, the Reporter read
15	BY MR. SIRI:	15	back a preceding portion of the
16	Q Well	16	testimony as directed:
17	A The first three doses are given	17	"Q. So when you say after five
18	Q You know what? I apologize. The, it's	18	years immunity is gone in two
19	about the run out, and I don't want to give the	19	years, the efficacy, do you mean
20	videographer a hard time.	20	after the four- or five-dose
21	VIDEO OPERATOR: This ends disc one of the	21	DTaP series?
22	deposition of Dr. Stanley Plotkin. We're going	22	"A I should go into some
23	off the record. The time is 10:32.	23	detail. The first
24	(Brief recess.)	24	"Q Well
25	VIDEO OPERATOR: This is the beginning of	25	"A The first three doses are
	VIDEO OF ERATOR. This is the beginning of		A The first three doses are
	Dama ()		
	Page 96		Page 97
1	Stanley Plotkin, M.D.	1	Page 97 Stanley Plotkin, M.D.
1 2		1 2	
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. given	2	Stanley Plotkin, M.D. BY MR. SIRI:
2 3	Stanley Plotkin, M.D. given "Q You know what? I apologize.	2 3	Stanley Plotkin, M.D. BY MR. SIRI: Q So the last vaccine recommended for
2 3 4	Stanley Plotkin, M.D. given "Q You know what? I apologize. It's about the run out.")	2 3 4	Stanley Plotkin, M.D. BY MR. SIRI: Q So the last vaccine recommended for adolescents is around what age, of DTaP or
2 3 4 5	Stanley Plotkin, M.D. given "Q You know what? I apologize. It's about the run out.") THE WITNESS: So pertussis vaccine is	2 3 4 5	Stanley Plotkin, M.D. BY MR. SIRI: Q So the last vaccine recommended for adolescents is around what age, of DTaP or diphtheria-, tetanus-, and pertussis-containing
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2	adolescents, five years later only 30 to 50 percent	<sup>2</sup> A Yeah.
3	of people are receiving these CDC-recommended	$^{3}$ Q is it bacteria?
4	childhood schedule are protected from pertussis?	<sup>4</sup> A Yes. But, you know, you have to bear in
5	A Yes.	<sup>5</sup> mind that pertussis as a disease is most important
6	Q How about ten years out?	<sup>6</sup> in the newborn and in children. And fortunately, we
7	A I'm not sure there are many studies that	<sup>7</sup> have very effective means of preventing pertussis in
8	go that far out. But I would imagine that the	<sup>8</sup> those highly susceptible individuals.
9	protection is diminished considerably by that time.	<sup>9</sup> Adults will have a cough disease, but
10	Q So most adults aren't protected for	<sup>10</sup> they won't die of pertussis. So although we want to
11	pertussis?	<sup>11</sup> protect them as well, the main point of pertussis
12	A Not unless they've received a booster	<sup>12</sup> vaccine is to protect the newborn and the young
13	dose. But that being said, it becomes complicated	<sup>13</sup> child.
14	because if they are infected with the organism that	<sup>14</sup> Q So is it only really dangerous in the
15	causes pertussis, even if they are not ill because	<sup>15</sup> first, what, few months of life? Or
16	of it, they will get a natural booster, and so they	<sup>16</sup> A Yes. Infants with pertussis may
17	may not have symptomatic pertussis.	<sup>17</sup> frequently die of pertussis. And that's why
18	Pertussis is not uncommon in adults.	<sup>18</sup> immunization in pregnancy is now practiced. In
19	But the epidemiology is not as well established as	<sup>19</sup> other words, to provide passive immunity to the
20	it is for children.	<sup>20</sup> infant during the first months of life before the
21	Q But in terms of protection from	<sup>21</sup> infant is vaccinated.
22	vaccination from pertussis, most adults are not	<sup>22</sup> Q And if the mother had been exposed to
23	protected from the vaccination; you're saying	<sup>23</sup> pertussis bacteria itself and had immunity that way,
24	they're, if they're protected, they're protected	that would also confer immunity to the baby?
25	from exposure to the actual pertussis	<sup>25</sup> A Yes. But one can't depend on that;
	Page 100	Page 101
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. whereas, if you give a dose of vaccine during	Stanley Flotkin, M.D.
	whereas, if you give a dose of vaccine during	Stanley Flotkin, M.D.
2		<ul> <li><sup>2</sup> susceptible to pertussis, and obviously they are</li> <li><sup>3</sup> close to humans.</li> </ul>
2 3	whereas, if you give a dose of vaccine during pregnancy, you can depend on the antibodies passing	<ul> <li><sup>2</sup> susceptible to pertussis, and obviously they are</li> <li><sup>3</sup> close to humans.</li> </ul>
2 3 4	whereas, if you give a dose of vaccine during pregnancy, you can depend on the antibodies passing to the infant.	<ul> <li><sup>2</sup> susceptible to pertussis, and obviously they are</li> <li><sup>3</sup> close to humans.</li> <li><sup>4</sup> Q Would those experiments be ethical to do</li> </ul>
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	Page 102		Page 103
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q In terms of the study that was done with	2	a lot of work going on in this field, including
3	baboons, that study	3	developing an attenuated Bordetella pertussis which
4	A Yes.	4	could be given to boost immunity and, in particular,
5	Q could that study be done with human	5	to prevent carriage. So as I said, this is a very
6	do you think any IRB approval could ever be obtained	6	active area of investigation.
7	to do that study with humans?	7	Q What was Merck's total revenue from
8	A To allow an individual to develop	8	vaccine sales in 2016?
9	symptomatic pertussis? I don't think that would be	9	A No idea.
10	approved.	10	Q Do you think it was in the millions?
11	Q Okay. What was, so in terms of the baboon	11	A I imagine so. But I certainly have no
12	studies that were done, that's about as, those are	12	knowledge.
13	about as good as you're going to get for those	13	Q Do you think it was in the billions?
14	studies because you can't do the human studies,	14	A I don't, do not know.
15	correct?	15	Q Do you know what the, do you know what the
16	A Well	16	global sales of vaccines were, approximately, last
17	Q In terms of evidence about the	17	year?
18	transmissibility and infection of pertussis from	18	A My vague recollection is something like
19	A Yes, but	19	30 billion.
20	Q after acellular pertussis vaccination.	20	Q Thirty billion. Do you know what percent
21	A Yes. But I, I believe that workers are	21	approximately Merck's share of that was?
22	trying to determine whether vaccinated individuals	22	A No.
23	are still colonized by the pertussis organism.	23	Q Sanofi's?
24	If they are colonized, then they	24	A No.
25	probably could transmit to others. I mean, there's	25	Q Glaxo?
	Page 104		Page 105
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A No.	2	vaccine manufacturers?
3	Q Or Pfizer?	3	A What I said was that I thought the overall
4	A No.	4	income was 30, but that the big four probably
5	Q Do you combined what, do you have a	5	account for 20. But that's, those are purely
б	sense of what those four represent in terms of that	6	guesses.
7	\$30 billion in vaccine sales?	7	Q Then let's do this. When you say it's a
8	A Probably. I would guess, but it's purely	8	guess, how off do you think you might be?
9	a guess, 20 billion.	9	A If it's a guess, how do I know how off I
10	Q And the increase in the vaccine market has	10	am?
11	been due to the fact that new vaccines give higher	11	Q How did you come up with the 20 billion?
12	profits, correct?	12	A Because I vaguely recall having seen a

A Because I vaguely recall having seen a
 paper with those numbers. But my memory may be
 incorrect.
 Q Are you familiar with the New England
 Iournal of Medicine?

Journal of Medicine? A Yes, of course. Q What does an editor for this journal do, does? A What does an editor for the journal do? Q Yeah. A I presume that he edits articles that are submitted to the journal.

Q What does the editor in chief do?

A Selects articles to be published.

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A Correct.

Q Twenty?

A Billion.

strike that.

Q Are you familiar with the New England --

If I told you -- in terms of the

\$30 billion, and you said approximately -- what

Q Oh, billion. You said what percent of

that was related from the four, to the four big

from the big four vaccine makers?

accurate idea, but that's my guess.

A I said 20. I really don't have an

percent did you say approximately you thought was

	Page 106		Page 107
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley ]	Plotkin, M.D.
2	Q What is your opinion about this, the	•	the issues with truths in
3	New England Journal of medicine?		g, on individuals that use
4	A It is an influential medical journal.	_	lemia to push pharmaceutical
5	Q I'm going to read you a quote from a		. Here's what she said about those
6	Dr. Edmond J. Safra, professor at Harvard Medical	<sup>6</sup> individuals.	
7	School and former editor in chief at the New England	7 She says	s, quote: They serve as
8	Journal of Medicine.	•	same companies whose products
9	And I'm going to ask you a question		n corporate advisory boards and
10	about it. Okay?		enter into patent and royalty
11	A Yes.	-	ee to be the listed authors of
12	Q So the quote says: Conflicts of interest	• •	en by interested companies,
13	and biases exist in virtually every field of	_	d devices at company-sponsored
14	medicine, particularly those that rely heavily on		ow themselves be plied with
15	drugs or devices. It is no longer possible to		d trips to luxurious settings.
16	believe much of the clinical research that is	· ·	quity interest in sponsoring
17	published or to rely on the judgment of trusted	<sup>7</sup> companies.	
18	physicians or authoritative medical guidelines. I	_	familiar with that quote?
19	take no pleasure in this conclusion, which I reached		nk I have read that, mm-hmm.
20	slowly and reluctantly over my two decades as the	0 Q You consu	lted for the big four vaccine
21	editor of the New England Journal of Medicine.	<sup>1</sup> manufacturers, co	
22	Are you familiar with that quote?	<sup>2</sup> A Yes.	
23	A No.	<sup>3</sup> Q You're in t	he corporate advisory Board of
24	Q Okay. Let me read you a different quote,		e developers, correct?
25	again, by Dr. Angell, in which she blames the issue	<sup>5</sup> A Yes.	_
	Dama 100		Dama 100
1	Page 108	1 0.1 1	Page 109
1 2	Stanley Plotkin, M.D.	-	Plotkin, M.D.
2	Q You've received royalties from the sale of		
			Human Services.
	one or more vaccines, correct?	<sup>3</sup> Q Okay. CD	С.
4	A Yes.	<sup>3</sup> Q Okay. CD <sup>4</sup> I know th	C. lese, I know that you know
4 5	<ul><li>A Yes.</li><li>Q Have you received you have received</li></ul>	<ul> <li><sup>3</sup> Q Okay. CD</li> <li><sup>4</sup> I know th</li> <li><sup>5</sup> these. This is just</li> </ul>	C. lese, I know that you know so that when I use the term
4 5 6	A Yes. Q Have you received you have received royalties from the sale of one or more vaccines,	<ul> <li><sup>3</sup> Q Okay. CD0</li> <li><sup>4</sup> I know th</li> <li><sup>5</sup> these. This is just</li> <li><sup>6</sup> "CDC" later we had</li> </ul>	C. lese, I know that you know so that when I use the term live it defined.
4 5 6 7	A Yes. Q Have you received you have received royalties from the sale of one or more vaccines, correct?	<ul> <li>Q Okay. CD</li> <li>I know th</li> <li>these. This is just</li> <li>"CDC" later we hat</li> <li>A Centers for</li> </ul>	C. tese, I know that you know so that when I use the term we it defined. Disease Control.
4 5 6 7 8	A Yes. Q Have you received you have received royalties from the sale of one or more vaccines, correct? A Yes.	<ul> <li>Q Okay. CD0</li> <li>I know the</li> <li>these. This is just</li> <li>"CDC" later we had</li> <li>A Centers for</li> <li>Q Thank you.</li> </ul>	C. hese, I know that you know so that when I use the term twe it defined. Disease Control. Thank you.
4 5 7 8 9	<ul> <li>A Yes.</li> <li>Q Have you received you have received royalties from the sale of one or more vaccines, correct?</li> <li>A Yes.</li> <li>Q You are listed as an author on at least</li> </ul>	<ul> <li>Q Okay. CD0</li> <li>I know th</li> <li>these. This is just</li> <li>"CDC" later we ha</li> <li>CDC" later s for</li> <li>Q Thank you.</li> <li>Have you</li> </ul>	C. tese, I know that you know so that when I use the term we it defined. Disease Control.
4 5 7 8 9 10	<ul> <li>A Yes.</li> <li>Q Have you received you have received royalties from the sale of one or more vaccines, correct?</li> <li>A Yes.</li> <li>Q You are listed as an author on at least one or more papers where individuals authoring</li> </ul>	<ul> <li>Q Okay. CD0</li> <li>I know th</li> <li>these. This is just</li> <li>"CDC" later we ha</li> <li>A Centers for</li> <li>Q Thank you.</li> <li>Have you</li> <li>CDC?</li> </ul>	C. Hese, I know that you know so that when I use the term we it defined. Disease Control. Thank you. Hever been involved with the
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q And the FDA is an agency within HHS,	<sup>2</sup> Q Any involvement with HRSA?
3	correct?	$^{3}$ A I don't think so.
4	A Yes.	<sup>4</sup> Q ACIP?
5	Q And CDC's also an agency within HHS?	<sup>5</sup> A Well, yes. The Advisory Committee for
6	A Yes.	<sup>6</sup> Immunization Practices. I have attended their
7	Q Okay. NIH?	<sup>7</sup> meetings since 1960s, probably.
8	A Yes, of course. National Institutes of	<sup>8</sup> Q Have you ever served on the Board at ACIP?
9	Health.	<sup>9</sup> A On ACIP itself? No.
10	Q Right. And you've been involved with the	10 Q Okay.
11	NIH?	<sup>11</sup> A No.
12	A Yes.	<sup>12</sup> Q Have you served on any Board related to
13	Q And how have you been involved?	<sup>13</sup> ACIP?
14	A Served on committees, worked with people	<sup>14</sup> A To ACIP? I've worked, I have participated
15	at NIH, scientific collaborations.	<sup>15</sup> in working groups which they have organized on
16	Q NIH is an agency within HHS as well,	<sup>16</sup> specific subjects.
17	correct?	<sup>17</sup> Q What working groups were those?
18	A Yes.	<sup>18</sup> A Let's see. Mumps. Let's see. What else?
19	Q HRSA?	<sup>19</sup> Mumps was the most recent one. I can't recall for
20	A I'm not sure	<sup>20</sup> the moment. But anyway, two or three working groups
21	Q Health Resources Services Administration?	that they've organized from time to time. A yellow
22	A Okay.	<sup>22</sup> fever was one.
23	Q They're also an agency within HHS,	<sup>23</sup> Q Ever work on a working group for
24	correct?	<sup>24</sup> rotavirus?
25	A Yes.	<sup>25</sup> A Actually, no.
	Page 112	Page 113
1	Stanley Plotkin, M.D.	Page 113 <sup>1</sup> Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. Q And measles?	
	Stanley Plotkin, M.D.	<ol> <li>Stanley Plotkin, M.D.</li> <li>A Yeah.</li> <li>Q Any involvement with that committee?</li> </ol>
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	Page 114		Page 115
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	but relation to the administration and the	2	injured by vaccines and remunerates them if they
3	development of new vaccines.	3	decide that, that there was a possibility that the
4	Q Ever give a presentation about the vaccine	4	vaccine did cause injury.
5	market?	5	Q So if somebody is injured by a vaccine,
6	A About the vaccine market? No.	6	this law provides that they submit a claim to Health
7	Q And so all of the agencies and committees	7	and Human Services?
8	we just listed, CDC, FDA, NIH, HRSA, ACIP, VRBPAC,	8	A Yes.
9	and NVAC, they're all under HHS?	9	Q And Health and Human Services then
10	A I believe so, yes.	10	adjudicates
11	Q And what's the, what about IOM; what does	11	A Yes.
12	that stand for?	12	Q and those claims are filed in something
13	A Institute of Medicine, now the National	13	called the Vaccine Injury Compensation Program,
14	Academy of Medicine.	14	correct?
15	Q Have you ever been involved with IOM?	15	A Yes.
16	A Well, I'm a member of the National	16	Q Administered in DC?
17	Academy. So yes.	17	A Yes.
18	Q Since when have you been a member?	18	Q So, and the respondent in those cases is
19	A Oh, gosh. Ten years, but that's just a	19	HHS, the secretary of HHS?
20	guess.	20	A Yes.
21	Q What is the National Childhood Vaccine	21	Q And the secretary of HHS in those cases is
22	Injury Act of 1986?	22	represented by the Department of Justice?
23	A Well, that's, in effect, it funds the	23	A Yes.
24	organization that, shall I say, receives requests	24	Q To defend against claims that the vaccines
25	from individuals who believe that they've been	25	cause injury, right?
	5 116		
	Page 116		Page 117
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A I would say that they determine whether	2	opposed to the situation where lawsuits were being
3	there is a reasonable possibility that the vaccine	3	filed against companies and having an impact on
4	caused injury. They, I would say, are relatively	4	whether the company was continuing would continue
5	open and will give an award if there is a reasonable	5	to make the vaccine.
6	possibility.	6	At a certain point there were
7	When this was first organized	7	relatively few companies making vaccines. And so
8 9	Q Do you have a study that supports what you	8	this is an idea which over the years I have realized
10	just said or any type of	9 10	was a good idea, because it removed the how shall
11	A About what?		I say? the oppositional part of the story and
12	Q That they are very, that they are open to giving awards? Do you have any governmental report	11 12	made it possible for people who thought that they
13		13	had been injured to be remunerated, whether or not
14	or any authoritative source, any kind of governmental report or similar that supports the	14	that was biologically the case. $\Omega$
15	assertion you just made?	15	Q So is it your testimony that the national,
16	A Well, I don't know. I'd have to look that	16	that the Vaccine Injury Compensation Program is not
17		17	an adversarial system?
18	up. Q Okay.	18	A It's an adversarial system in that people have to have some reasonable information base to say
19	A But the principle was enunciated years ago	19	-
20	by the, particularly by the American Academy of	20	that a child, let's say, has been injured. Whether it's because of a vaccine or whether it's a chance
21	Pediatrics. And their idea, which I now think was a	21	occurrence fortunately does not have to be
22	good idea, was that rather than have an adversary	22	adjudicated under this kind of system.
23	situation, that they would set up an organization	23	Q That's only if it's a table injury,
24	whereby if there was a reasonable possibility of	24	correct?
25	injury, that they would offer remuneration, as	25	A Yes.

	Page 118	Page 119
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q But if it's not a table injury, then the	<sup>2</sup> properties to produce proteins and to replicate in
3	petitioner would need	<sup>3</sup> cells and make more of it and is capable of causing
4	A Yes.	<sup>4</sup> disease under certain circumstances.
5	Q to show that it was the vaccine that	<sup>5</sup> Q When you say "replicate in cells"
6	caused the injury?	<sup>6</sup> A Yes.
7	A Yes.	<sup>7</sup> Q do you mean in the host, the person
8	Q So this is, I'm going to refer to this as	<sup>8</sup> that it infects?
9	the 1986 act. This is the act that gave vaccine	<sup>9</sup> A Yes.
10	manufacturers immunity from liability.	<sup>10</sup> Q So it takes over the person it infects own
11	A Yes.	<sup>11</sup> cellular DNA material?
12	Q And you have to yeah, okay, for	<sup>12</sup> A Well, it doesn't take over the DNA
13	injuries caused by vaccines.	<sup>13</sup> necessarily, but it is able to replicate in cells
14	A Mm-hmm. Yes.	that which, of course, have DNA. Not all viruses
15	Q What is a bacteria?	<sup>15</sup> require that that they influence the DNA of the
16 17	A It's a microorganism which has certain	<sup>16</sup> cell. But they all are able to replicate in the <sup>17</sup> cytoplasm or in the nucleus of the cells of the
18	properties. It has a cell wall. And it has DNA	eytoplash of in the nacieus of the eens of the
19	within, within the organism. And it can, depending	nost.
20	on what bacteria it is, it can multiply in humans and sometimes cause disease.	<sup>19</sup> Q And in that fashion, they will spread from <sup>20</sup> cell to cell?
21	Q How does it replicate?	21 A Yes.
22	A It divides. It has mechanisms for	22 Q By duplicating themselves into more and
23	dividing and multiplying.	<sup>23</sup> more cells in the body?
24	Q What is a virus?	<sup>24</sup> A Yes.
25	A A virus is a DNA or RNA molecule with	<sup>25</sup> Q And the virus DNA will, you said it can be
	Page 120	Page 121
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
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2 3 4 5	Stanley Plotkin, M.D. either DNA or RNA? A Yes. Q And those DNA and RNA pieces, they provide coating for protein structures?	<ul> <li>Stanley Plotkin, M.D.</li> <li>are each different from one another.</li> <li>Q I've read tell me if this is not</li> <li>accurate that human DNA is approximately among</li> <li>individuals 99.9 similar among different people</li> </ul>
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	say, 99 percent similar to chimpanzee doesn't mean	2	of the DNA to be different.
3	that the differences are, the 1 percent difference	3	Q Sure. What about guinea pigs?
4	is unimportant, because much of the DNA actually,	4	A (Indicating.)
5	the function of most of the DNA is unknown.	5	Q If you don't know, that's fine. You can
6	Q So humans have approximately, between	6	just say you don't know.
7	humans, have about 99.99 percent similarity in DNA	7	A I don't know.
8	and between humans and, I think you said,	8	Q Okay. Are you familiar with how the CDC
9	chimpanzees, about 99 percent similarity	9	makes changes to its pediatric vaccine schedule?
10	A Yeah.	10	A Yes.
11	Q in terms of sequence?	11	Q Have you ever been part of that process?
12	A Yes.	12	A Not part of the process, but certainly
13	Q What about for other mammals such as,	13	part of the discussion.
14		14	1
15	let's say, between humans and chickens or cows or	15	Q In addition to changes to the CDC
16	is there a similarity?	16	pediatric schedule voted upon by ACIP, correct?
17	A Well, there's similarity, certainly, but	17	A Yes.
18	there are key differences. That's what I was	18	Q What happens when ACIP votes for a
19	referring to. Even though much of the DNA is the	10	pediatric vaccine to be added to the CDC's pediatric
	same, most of the DNA that we have, the function of	20	vaccine schedule for universal use?
20	which is unknown.		A It is adopted by various medical
21	Q And what percent would you say is similar?	21	organizations and recommended to the physicians.
22	A With chickens, I don't know offhand.	22	Q And so the pediatricians around the
23	Q Cows?	23	country rely on those recommendations to decide
24	A Again, I don't know the number. But the	24	whether or not to administer a vaccine?
25	point is that it doesn't require a large percentage	25	A Absolutely.
		<u> </u>	
	Page 124		
	rage 124		Page 125
1		1	
1 2	Stanley Plotkin, M.D.	1 2	Stanley Plotkin, M.D.
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	Page 126		Page 127
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A No.	2	Q Were you at ACIP at the meeting that they
3	Q Where do these individuals come from?	3	first approved the first-ever rotavirus vaccine for
4	A They come from all over the United States,	4	universal pediatric use?
5		5	A I believe I was.
6	and they are chosen because they have no conflict of interact, that is to say, they receive no funding	6	
7	interest; that is to say, they receive no funding	7	Q Was Fred Clark at that meeting?
8	from vaccine companies but are thought to know	8	A I think he was. I'm not certain.
9	something about vaccines, nevertheless, with the exception of a community representative who is a	9	Q Was Paul Offit at that meeting?
10	· · ·	10	A Yes.
11	layperson.	11	Q What was Paul Offit's role at that
12	Q So none of the members of ACIP have any	12	meeting?
13	conflict with regards to the manufacture,	13	A His role? I don't remember whether he was
14	development, or of vaccination?	14	still on the committee or not. I don't remember.
15	A Right.	15	Q He was on ACIP?
16	Q When was the first rotavirus approved by	16	A He was on ACIP, yes.
17	ACIP for universal pediatric use?	17	Q He was a voting member of ACIP?
	A That was, I don't remember the year, but		A But I am confident that he was not allowed
18	my recollection is that was in the 1990s.	18	to vote on the licensure of RotaTeq or on the
19	Q If I tell you June 25, 1998, does that jog	19 20	administration of RotaTeq.
20	your memory?		Q For the first, what was the first
21	A Yeah, that could be right.	21 22	rotavirus vaccine that was approved for universal
22	Q On that date, June 25, 1998, you and your		use in this country?
23	co-inventors, Paul Offit and Fred Clark, had already	23	A RotaTeq.
24	had a patent on the rotavirus vaccine, correct?	24	Q Is that the rotavirus vaccine that you
25	A Yes.	25	worked on?
	Page 128		Page 129
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Yes.	2	disease approved for universal use, wouldn't that
3	Q There wasn't a rotavirus vaccine that was	3	make it easier to, then, have another vaccine for
4	approved before that?	4	that same disease approved for universal use?
5	A I don't believe so, no well, yes, there	5	A Assuming that the properties of the second
6	was a vaccine that had been developed at the	6	vaccine were equal to or better than the first, yes.
7	National Institutes of Health that had been	7	Q So approval of the first one paves the way
8	licensed, but was found to cause intussusception,	8	for the second one, doesn't it?
9	and the manufacturer took it off the market.	9	A It paves the way in the sense that if
10	Q Paul Offit was on the committee and voted	10	people believe that rotavirus disease is worth
11	to approve that vaccine for universal use, correct?	11	preventing, they will want more than one vaccine
12	A Very likely, yes.	12	licensed so that in case there's a shortage of
13	Q At the time that he voted to approve that	13	supply in one vaccine, there's an alternative.
14		14	
14 15	rotavirus vaccine for universal use, he was a patent	14 15	Q So there's, so there's, once you have one
			Q So there's, so there's, once you have one approved, it's a good idea to have a second one
15	rotavirus vaccine for universal use, he was a patent holder with you and Fred Clark on a rotavirus	15	Q So there's, so there's, once you have one approved, it's a good idea to have a second one approved, then, isn't it?
15 16	rotavirus vaccine for universal use, he was a patent holder with you and Fred Clark on a rotavirus vaccine, correct?	15 16	Q So there's, so there's, once you have one approved, it's a good idea to have a second one
15 16 17	rotavirus vaccine for universal use, he was a patent holder with you and Fred Clark on a rotavirus vaccine, correct? A Yes. Q He didn't recuse himself from voting on	15 16 17	<ul> <li>Q So there's, so there's, once you have one approved, it's a good idea to have a second one approved, then, isn't it?</li> <li>A It is, yes.</li> <li>Q Yeah. Are you aware of the many other</li> </ul>
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	Page 130		Page 131
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	quote, the overwhelming majority of members, both	2	the report, that this report by the U.S. House of
3	voting members and consultants, have substantial	3	Representatives' Committee on Government Reform
4	ties to the pharmaceutical industry, end quote?	4	concluded that ACIP, quote, Reflects, quote, a
5	Well, I can't go back to 1998. But	5	system where the government officials make crucial
6	at the moment, my criticism of the ACIP committee is	6	decisions affecting American children without the
7	that many of the people on the committee do not have	7	advice and consent of the governed?
8	a very large knowledge about vaccines because they	8	A I'm not aware of that report, and
9	are eliminated from participating on the committee	9	Q I'll give you a copy.
10	if they have any connections with, with industry.	10	A I do not agree with it.
11	And I understand why that is the	11	(Exhibit Plaintiff-9 was marked
12	case, but it does result in the group of people who	12	for identification.)
13	aren't necessarily the best informed.	13	BY MR. SIRI:
14	That being said, I agree with the	14	Q I'm going to hand you what's being marked
15	idea that people who are on the ACIP should have no	15	as Plaintiff's Exhibit 9. Happy to provide you a
16	conflict of interest.	16	copy as well after the deposition that you can take
17	VIDEO OPERATOR: Watch your notes up	17	home with you.
18	against your microphone.	18	A I will be interested in reading this. But
19	MS. NIEUSMA: Pardon?	19	I would say two things: One is that CDC certainly
20	MR. SIRI: The videographer was kindly	20	recently has leant over backwards to try to avoid
21	advising me not to keep smacking my mic that's	21	people with conflicts of interest being on ACIP.
22	pinned to my tie.	22	And, second, that ACIP meets under
23	MS. NIEUSMA: Got you.	23	public conditions; that is to say, the meeting is
24	BY MR. SIRI:	24	open to the public, the meeting is on the web, so
25	Q Last question on this. Are you aware that	25	that thousands of people, literally, can observe
	Page 132		Doco 122
			Page 133
1		1	
1 2	Stanley Plotkin, M.D.	1 2	Stanley Plotkin, M.D.
	Stanley Plotkin, M.D. what goes on at the meeting and decide for		Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often
2	Stanley Plotkin, M.D. what goes on at the meeting and decide for themselves whether or not there's any hanky-panky.	2	Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often it's just the opposite.
2 3	Stanley Plotkin, M.D. what goes on at the meeting and decide for themselves whether or not there's any hanky-panky. So although, as I said before, I	2 3	Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often it's just the opposite. Q You've also, you've also said that the
2 3 4	Stanley Plotkin, M.D. what goes on at the meeting and decide for themselves whether or not there's any hanky-panky. So although, as I said before, I might wish that people with more knowledge about	2 3 4	Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often it's just the opposite. Q You've also, you've also said that the meetings are available to the public. You've
2 3 4 5	Stanley Plotkin, M.D. what goes on at the meeting and decide for themselves whether or not there's any hanky-panky. So although, as I said before, I might wish that people with more knowledge about vaccines be on the ACIP, by and large I think that	2 3 4 5	Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often it's just the opposite. Q You've also, you've also said that the meetings are available to the public. You've attended, you said, almost every ACIP meeting,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. what goes on at the meeting and decide for themselves whether or not there's any hanky-panky. So although, as I said before, I might wish that people with more knowledge about vaccines be on the ACIP, by and large I think that they do a hell of a good job under public scrutiny. Q Are the working groups, are those also public? A They are not public in the sense that the public does not attend the working group. The working group does report back to the full ACIP, and the working group's presentations are presented publicly. Q But the discussions that the working groups have in conference calls leading up to ACIP meetings, those are not transcribed, are they? A They are not, no. Q Okay. And the members and individuals who participate in those working groups, right, which often lead to what ACIP then rubber-stamps, are permitted to have all forms and do have all forms of conflicts with industry, don't they?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. rubber-stamp a working group recommendation. Often it's just the opposite. Q You've also, you've also said that the meetings are available to the public. You've attended, you said, almost every ACIP meeting, correct? A Correct. Q Since, when was it, the '60s? A Yeah. Roughly, yes. Q And you attended the most recent one as well? A The most recent one being let's see. That would have been last October. Yes, I did. Q Were you presented anything at that meeting? A I presented the fact that I will no longer attend the meetings. Q Were you presented anything by the ACIP committee? A Yes. Q What were you presented?

	Page 134		Page 135
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q And they gave, so going forward, from this	2	Q And that's also true of vaccine
3	point forward, the gavel that's used at ACIP will	3	manufacturers; they also are permitted to get up and
4	have your name on it?	4	come to the mic and speak even not when there
5	A Correct.	5	isn't public
б	Q You gave a speech at that meeting,	6	A Yes. They're often asked to answer
7	correct?	7	questions that are being discussed.
8	A Yes.	8	Q Isn't it true that they also get up and
9	Q When they posted the video of that meeting	9	come to the front to speak even when not asked a
10	on the Internet, did they include your speech,	10	question?
11	Dr. Plotkin?	11	A They may do so if they have, if it's a
12	A I don't know, but I suppose they did.	12	discussion about one of their products.
13	Q Well, you can check after this deposition	13	Q But if members of the public want to
14	on the website and see if your speech is there. I,	14	speak, they have to wait until the public speaking
15	we have not been able to find it.	15	period, correct?
16	A Really? Wow. Too bad.	16	A Normally, yes.
17	Q Regularly at ACIP meetings, you get up and	17	Q And when the videos are released, a lot of
18	speak, correct?	18	the conversations that occur between the
19	A I often do, yes.	19	pharmaceutical representatives and ACIP, do those
20	Q So you're given free, you're able to get	20	also make it to the video that's released publicly?
21	up pretty much at any time and speak, aren't you?	21	A As far as I know, the video contains all
22	A Yes. Umm	22	of the public hearings. In other words, if somebody
23	Q You don't have to wait for the public	23	comes to the mic, they are photographed; and as far
24	comment period, correct?	24	as I know, they appear on the web.
25	A Correct.	25	I must say that since I've been
	Page 136		Page 137
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	attending the meetings, I haven't really watched	2	that vaccination is intended to create a systemic
3	them; but I will in February when they meet again.	3	change in the body, throughout the body?
4	Q So apart from the working groups that	4	A It's intended to create a systemic change
5	occur out of public sight, what other meetings or	5	in the immune system of the body.
б	goings-about does ACIP engage in that's outside of	6	Q In the immune system everywhere in the
7	the scrutiny of the public?	7	body?
8	A Aside from working groups, I'm not aware	8	A The immune system is expressed everywhere
9	that they do have anything that's not public. I	9	in the body. Yes. The immune system consists of
10	suppose they meet at lunchtime, and I don't attend	10	antibody-producing cells and cells that are able to
11	those discussions. But that's all I know.	11	influence other cells.
12	Q Billions of dollars' worth of rotavirus	12	Q So the can you read back the last
13	vaccine have been sold to date, correct?	13	answer.
14	A I believe so. I'm not acquainted with the	14	
15	sales figures.	15	(Whereupon, the Reporter read
16	Q Does vaccination create a systemic change	16	back a preceding portion of the
17	in the body?	17	testimony as directed:
18	A Vaccination creates a change in the immune	18	"A. The immune system is
19	system of the body.	19	expressed everywhere in the
20	Q Is that supposed to be system-wide,	20	body. Yes. The immune system
21	meaning if I get vaccinated in my arm but I'm	21	consists of antibody-producing
22	infected in my toe, am I still supposed to still be	22	cells and cells that are able to
.).)		23	influence other cells.")
23	immune?		
24	A Yes.	24	BY MR. SIRI:

1         Stanley Plokin, M.D.         1         Stanley Plokin, M.D.           2         A         H also has, solicidies what are called         A         Yes.           3         Q         Is that referred to typically as cellular immunity?         Q         New Yes.         Q         When you asy "interact with other cells," when you say that the immunity careated by vaccines of the you careates antibodies which then interact with other cells,"           4         M         Yes.         Q         The Humoni Timmunity, conferred by vaccines of the you were talking about carlier is called -           5         A         Yes.         A         Well, the name derives from?           5         A         Yes.         A         Well, the name derives from?           6         Q         And the systemic change that you've         Tespond to the infection as it were, or by screating antibodies, and it's called humoral because it infection?         A dut by also it infinetee cells to it care at an kill the cells.           7         A         Well, the name derives from?         Tespond to the infection as at were, or by screating antibodies and it's called humoral because it infection?         A dut by also it infection graph and it's called humoral because it infection?           7         A         Well, the name derives from?         A well, the Tesls.           8         Q         And the systemic change that you'Ye		Page 138		Page 139
a         more than antibody-producing cells?         iffetime -           a         A         Yes.           cellet on immunity.         Q         - correct, from vaccination?           c         A         Yes.           Q         Is that referred to typically as cellular         when you say that the immunity created by vaccines           immunity?         A         Yes.           Q         And the immunity confered by vaccines         when you say that the immunity created by vaccines           a         Memoral immunity, res.         A           A         Yes.         A           Q         Okas, So humoral immunity creates         A           antibodics, and it's called humoral becauses it         attack infected cells by direct action, as it were, or by           antibodics, and it's called humoral becauses it         against infecting organisms.           against infecting organisms.         Page 140           A         Yeas         A           A         Well, the an adderives from?         A           A         A well, the mane derives from? </th <th>1</th> <th>Stanley Plotkin, M.D.</th> <th>1</th> <th>Stanley Plotkin, M.D.</th>	1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
3     A ft also bas, also includes what are called     3     A Yes.       4     T cells that are able to kill infected cells, for     Q    correct, from vaccination?       5     A Yes.     Q     When you say that himmunity created by vaccines       6     immunity?     Q     A Yes.       7     Q Is that refered to typically as cellular     **     Q       8     A Yes.     Q     When you say that himmunity created by vaccines       10     Q And the immunity conferred by vaccines     **       11     that you were taiking about earlier is called     **       12     A Humoral immunity conferred by vaccines     **       13     A Yes.     **       14     immunity?     **       15     A Yes.     **       16     Q Ohay. So humoral immunity creates     **       17     A Well, the calls hat sen as attibodies     **       18     originates from the bodys of a variety of mance darives from?     **       19     First free from?     **       20     A Well, the rank derives from?     **       21     a work were ferring     **       22     a free minuto system: change that you've       23     a Well, the realls, as I waid, have a       24     A Well, the realls, as I waid, have	2	•	2	-
4     T cells that are able to kill infected cells, for     4     Qcorrect, from vaccination?       5     cells that are able to kill infected cells, for     5     A Yes.       7     Q Is that referred to typically as cellular     5     A Wes.       9     A Yes.     7     7       9     A Mathe immunity conferred by vaccines     6     9       10     Q And the immunity conferred by vaccines     7     8       11     A Humoral immunity, yes.     7     1     A Well, the T cells, as I said, are able to attack infected cells in the body by a variety of market with other cells.       14     M Well, the more? What do you mean by "interact with other cells."     1       15     A Yes.     1     1       16     Q Okay. So humoral immunity creates antibodies and it's called humoral breams it inforcing organisms.     1       17     antibodies, and it's called humoral breams antibodies and it's called humoral's breams antibodies and it's called humor	3	• • •	3	
s     example, and to secrete substances that also have an     a     A     Yes.       Q     Is that referred to typically as cellular     a     b     Q     When you say 'interact with other cells."       a     M     Yes.     a     Yes.     a       a     A     Yes.     a     Yes.       a     Q     A dub immunity conferred by vaccines     a     Yes.       a     A     Humoral immunity, yes.     a     Yes.       a     Q     Thank you. Appreciate that. Humoral     antibodies, and it's called humoral because it       a     O fay. So humoral immunity creates     antibodies, and it's called humoral because it       a     originates from the bones?     Is that freetion of the infection or the infection or the infection or the infection or the infection?       a     Q     And the systemic change that you've     against infection or grainsins.       a     Q     And the systemic change that you've     a       a     A     Well, the T cells, as I ve ada and impact on a sariety of functions. They can secret substances       a     Q     And they see indice dells or the cells to the infection or ton use a variety of functions. They can secret substances       a     Well, the T cells, as I ve ada the a cetting on the infercet cells?       a     Well, the T cells, as I ve ada they accines       <	4		4	O correct. from vaccination?
e     effect on immunity.       Q     When you say 'interact with other cells."       when you say that referred to typically as cellular     "       immunity?     A Yes.       Q     And the immunity conferred by vaccines       that you were talking about carlier is called -       A     Yes.       Q     O Kay, So humoral immunity creates       anibodies, and it's called humoral because it       originates from the bones? Is that kind of where       that wou were refers from?       A     Well, the ame derives from the ancient       anibodies, and it's called humoral because it       aninterior of more called humoral because it </th <th>5</th> <th></th> <th>5</th> <th></th>	5		5	
7     Q     Is that referred to typically as cellular     7     when you say that the immunity created by vaccines       8     immunity?     6     cells, can you describe that a bit more? What do       9     A Yes.     7     A Well, the cells, as I said, are able to       10     Q Thank you. Appreciate that. Humoral     7     antibodies, and it's called humoral because it       11     A Yes.     7       12     A Yes.     7       13     antibodies, and it's called humoral because it     7       14     influence cells to     7       15     A Well, the name derives from the ancient     7       14     influence cells to     7       15     A Well, the name derives from the ancient     7       16     Q And ho systemic change that you've     7       17     Stanley Plotkin, M.D.     7       18     influence cells cult hat are acting on the infection cells.     7       19     that will kill an infectod cells.     7       10     Stanley Plotkin, M.D.       11     Stanley Plotkin, M.D.       12     that will kill an infectod cells.       14     the work will hat an infection ot a vaccine       15     A Well, the T cells, as Yve said, have a       16     variety of functions. They can secrit substances <th>6</th> <th>•</th> <th>6</th> <th></th>	6	•	6	
<ul> <li>immunity?</li> <li>A Yes.</li> <li>Q And the immunity conferred by vaccines that you were talking about carlier is called</li> <li>A Humoral immunity, ess.</li> <li>Q Thank you. Appreciate that. Humoral immunity?</li> <li>A Yes.</li> <li>Q Thank you. Appreciate that. Humoral immunity?</li> <li>A Yes.</li> <li>Q Okay. So humoral immunity creates</li> <li>antibodies, and it's called humoral because it originates from the bones? Is that kind of where the name derives from the ancient term "humors." But, in effect, it means antibodies that circulate throughout the body and can impact against infecting organisms.</li> <li>Q And the systemic change that you've described is supposed to last years, if not a</li> <li>Stanley Plotkin, M.D.</li> <li>There are cells call antural killer cells, for example, that can help protect an influence hartural killer cells.</li> <li>So it's a complicated system by which the body responds to an infection or to a vaccine</li> <li>With allows the individual cells to be ready for an influence that full cascade, correct?</li> <li>Q I said modern medicine, modern immunology, does not fully understand that full cascade, correct?</li> <li>Q I said modern medicine, modern immunology, does not fully understand the for cells.</li> <li>A Modern immunoly, excination to</li> <li>Parge 140</li> <li>Parge 141</li> <li>Stanley Plotkin, M.D.</li> <li>There are cells called natural killer</li> <li>A Well, the T cells, as the satis and the individual endividual cells to be ready for an infection if in cocurs.</li> <li>Q I said modern medicine, modern immunology, does not fully understand the complete sequere of which allows the individual cells to be ready f</li></ul>	7	•	7	
9     A Ýes.     9     cells, can you describe that bit more? What do       10     Q And the immunity contered by vaccines     10       11     Q Thank you. Appreciate that. Humoral     11       12     A Humoral immunity, yes.     12       13     Q Thank you. Appreciate that. Humoral     13       14     immunity?     14       15     A Yes.     15       16     Q Okay. So humoral immunity creates     16       17     antibodies, and it's called humoral because it     16       18     originates from the bones? Is that kind of where     16       19     the name derives from?     20       20     A Well, the name derives from the ancient     17       11     term 'humors.'' Buyt in effect, it means antibodies     16       21     that circular throughout the body and can impact     21       22     against infecting organisms.     22       23     Q And the systemic change that you've       24     Q Lasti start with the T cells.       25     described is supposed to last yeas; if not a       26     Yeage 140       27     Stanley Plotkin, M.D.       28     Yeage 140       29     There are cells caled antural killer       30     nofflence actually the antobd, producing system.	8		8	
10       Q And the immunity conferred by vaccines that you were talking about earlier is called       10       you mean by "interact with other cells."         12       A Humoral immunity, yes.       10       You mean by "interact with other cells."         14       immunity?       A Yes.       12         15       A Yes.       13       Q Thank you. Appreciate that. Humoral immunity?         14       immunity.       14       infected cells in the body by a variety of mechanisms. They may actually directly kill (hose infected cells of the cells.         16       Q Okay. So humoral immunity creates inforced cells of the body. So humoral immunity creates it can are drives from?       14       16         17       A Well, the mane derives from the ancient individual's health.       10       A And they also influence cells ro respond to the infection so that the infection doesn't continue to spread and impact on the individual's health.         12       A Well, the mane derives from the ancient iterm "humors." But, in effect, it means antibodies infected cells or the T cells har yeas, if not a       10       A Now do the cells respond to the infection? Can you describe that?         14       Stanley Plotkin, M.D.       11       11       11       12         15       A Well, the rolls, a I've said, have a infected cells?       14       14       14         14       Stanley Plotkin, M.D.       14       14	9	-	9	
11       that you were talking about cartier is called       11       A Well, the T cells, a I said, are able to         12       A Humoral immunity, yes.       12       attack infected cells in the body by a variety of         13       Q Thank you. Appreciate that. Humoral       12       attack infected cells by direct action, as it were, or by         14       immunity?       13       attack infected cells by direct action, as it were, or by         14       originates from the bones? Is that kind of where       14       And they also influence cells to         15       A Well, the name derives from?       14       attack infected cells respond to the         16       against infecting organisms.       14       0         17       against infecting organisms.       14       14         18       originate from the cells.       14       16         19       Q And the systemic change that you've       24       A You mean the patient's own cells?         21       gainst infection graphics.       25       A Yeah. The T the do you mean the         10       infected cells or the T cells and the cells.       24       Yeah. The T the do you mean the         14       Stanley Plotkin, M.D.       1       Stanley Plotkin, M.D.       1         14       Stanley Plotkin, M.D. <t< th=""><th>10</th><th>Q And the immunity conferred by vaccines</th><th>10</th><th>•</th></t<>	10	Q And the immunity conferred by vaccines	10	•
12       Å Humoral immunity, yes.       12         13       Q Thank you. Appreciate that. Humoral       13         14       immunity?       14         15       A Yes.       15         16       Q Okay. So humoral immunity creates       16         17       antibodies, and it's called humoral because it       17         18       originates from the bones? Is that kind of where       16         19       the name derives from?       17         20       A Well, the name derives from the ancient       17         21       the and erives from?       19         22       the and erives from?       19         23       against infecting organisms.       20         24       Q And the systemic change that you've       23         25       described is supposed to last years, if not a       25         26       variety of functions. They can secret substances       1         31       influence actually the antibody-producing system.       1         32       There are cells called natural killer       10         34       Q Let's start with the T cells.       10         35       Nell, the T cells. A Ive and help protect is an       10         34       There are cells call	11		11	
13       Q       Thank you. Appreciate that. Humoral       13       mechanisms. They may actually directly kill those         14       immunity?       14       mechanisms. They may actually directly kill those         15       A       Yes.       15         16       Q       Okay. So humoral immunity creates       16         17       antibodies, and it's called humoral because it       17         18       originates from the bones? Is that kind of where       16         19       originates from the bones? Is that kind of where       16         12       the anne derives from?       17         20       A Well, the name derives from the ancient       17         21       that circulate throughout the body and can impact       18         23       against infecting organisms.       2       A         24       Q       And the systemic change that you've       24         25       described is supposed to last years, if not a       25       A       Yeah. The T - the - do you mean the         26       Variety of functions. They can secret substances       14       Stanley Plotkin, M.D.       14         3       influence actually the antibody-producing system.       16       A       Well, science never completely understand show the antipoly is influcting wh	12		12	
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	Page 142		Page 143	
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.	
2	complete range of disease that the organism causes.	2	Q Because of safety concerns, right?	
3	Q So vaccines are just nothing more than a	3	A Because they cause significant fever and	
4	piece of the virus or bacteria; is that it? Is that	4	convulsions, febrile seizures. And they were, it	
5	all they contain?	5	was decided that it would be better to have a	
6	A Depends on the vaccine. The, that is to	6	pertussis vaccine that didn't cause that type of	
7	say, whether it's a live vaccine or a killed	7	reaction. So they were taken off the market, not	
8	vaccine. The killed vaccines may only have small	8	because they were not working; quite the opposite,	
9	parts of the organism that they're protecting	9	but because of safety concerns.	
10	against. The live vaccines contain the whole	10	Now, I do have to point out that	
11	organisms but altered so that they don't cause	11	aside from the U.S. and Europe, whole-cell pertussis	
12	disease.	12	vaccines are still used in the vast majority of	
13	Q Before vaccines are licensed, they go	13	countries in the world, and they are getting along	
14	through clinical trials to confirm their safety,	14	just fine with those vaccines.	
15	right?	15	Q Are you familiar with Peter Aaby,	
16	A Correct.	16	Dr. Peter Aaby?	
17		17	A Yes, of course.	
18		18		
19	any harms caused by the vaccine, correct?	19	Q Didn't he recently publish a paper in which he looked at children who received DTP vaccine	
20	A Yes.	20		
	Q Was the DTP vaccine withdrawn from the	20	in the first six months of life versus children who	
21 22	U.S. market?	21	received no vaccines in the first six months of life	
22	A The whole-cell	22	and found that those that received DTP died at a	
	Q The DTP	23	rate of ten times that of the unvaccinated?	
24	A pertussis vaccines have been withdrawn,		A I don't remember the exact figures. But	
25	yes.	25	you have to take into account that Peter Aaby I	
	Page 144		Page 145	
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.	
1 2	Stanley Plotkin, M.D. had many discussions with Peter Aaby. Peter Aaby's	1 2	Stanley Plotkin, M.D. don't know for sure whether it's the vaccine or	
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	Page 146		Page 147
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Well, I imagine WHO will reconsider them.	2	scientists not working with Peter have looked at
3	But his studies suggesting that pertussis may,	3	measles vaccination and have shown that the vaccine
4	vaccine may increase mortality have been around for	4	has effects on what I referred to as natural killer
5	a while. It's not the first study that he's done.	5	cells before and that they do seem to reduce
6	Also, one has to appreciate the	6	mortality against other diseases.
7	context. By that I mean that he's also shown or	7	So, you know, science works that way.
8	attempted to show that live vaccines like measles	8	One scientist does not gain acceptance for his
9	vaccine has a very positive effect on mortality; in	9	findings unless they're repeated elsewhere and
10	other words, that in his observations, those who	10	unless they're consistent with the entire range of
11	received measles vaccine suffer from fewer diseases	11	facts, not just single ones.
12	in general and have a lower mortality. And that	12	Q Peter Aaby's a respected researcher,
13	effect has actually been confirmed immunologically.	13	correct? He's a respected researcher, correct?
14	So one has to look at the whole	14	A He's a respected researcher. I respect
15	context of things; that is to say, his data are not	15	him, just as I respect many other scientists who are
16	anti-vaccine data. His data relate to the	16	attempting to find out things that we don't know
17	possibility that vaccines have effects beyond the	17	yet.
18	specific disease that they're designed for.	18	Q In conducting prelicensure clinical trials
19	Q So you agree with his findings regarding	19	for vaccines, what is the difference between
20	live vaccines?	20	solicited and unsolicited reactions?
21	A I agree because, as I've said and as I	21	A Well, solicited reactions means that you
22	advised him years ago, that he has to find some	22	ask the vaccinee whether he's had X, Y or Z.
23	immunological correlate to his findings or,	23	Unsolicited are reactions that the patient reports
24	otherwise, they're not believable.	24	to the investigator without being specifically
25	And what's happened is that	25	questioned about them.
	Dage 148		Dage 149
1	Page 148 Stanlay Platkin M.D.	1	Page 149 Stoplay Plotkin M.D.
1 2	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. Q Who decides what gets put on the solicited	2	Stanley Plotkin, M.D. there are two hep B vaccines on the market. One by
2 3	Stanley Plotkin, M.D. Q Who decides what gets put on the solicited list and what's who decides what symptoms get put		Stanley Plotkin, M.D. there are two hep B vaccines on the market. One by Glaxo, GSK, that's Endrix-B; and the other one is by
2	Stanley Plotkin, M.D. Q Who decides what gets put on the solicited list and what's who decides what symptoms get put on the solicited list of reactions?	2 3	Stanley Plotkin, M.D. there are two hep B vaccines on the market. One by Glaxo, GSK, that's Endrix-B; and the other one is by Merck, Recombivax HB, right?
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2	A Five days.	<sup>2</sup> Q Was there any control group in this trial?
3	Q Is five days long enough to detect adverse	<sup>3</sup> Let me rephrase that.
4	reactions that occur after five days?	4 There's no control group, correct?
5	A No. They would be	<sup>5</sup> A Not let's see.
6	Q Is it	<sup>6</sup> Well, they mention 3,258 doses were
7	A They would be reported separately as	<ul> <li><sup>7</sup> administered to 1,252 healthy adults.</li> </ul>
8	observed in the clinic.	<sup>8</sup> Q That's right. But does it mention any
9	Q In Section 6.1 of the manufacturer insert,	<ul> <li><sup>9</sup> control group, Dr. Plotkin?</li> </ul>
10	which under the Code of Federal Regulations are	<sup>10</sup> A It does not mention any control group, no.
11	supposed to describe the clinical trial, does it	1QIf you turn to Section 6.2, what is the
12	provide for anything other than five days of	<sup>12</sup> list of adverse reactions listed in this section?
13		
14	monitoring after each dose for adverse events?	These are reports of adverse reactions
	A It does not specifically say that, no.	that fixely were reported to the virility system.
15	Q Okay. Is five days long enough to detect	
16	an autoimmune issue that arises after five days?	that there were reports of hypersensitive reactions,
17	A No.	<sup>17</sup> including anaphylactic, anaphylactoid reactions,
18	Q Is five days long enough to detect a	<sup>18</sup> bronchospasms, and urticaria having been reported
19	seizure that arises after five days?	<sup>19</sup> within the first few hours after vaccination?
20	A It would be unlikely to have a seizure	<sup>20</sup> A Yes.
21	occur after five days.	<sup>21</sup> Q Have there been reports of
22	Q Is five days long enough to detect any	<sup>22</sup> hypersensitivity syndrome?
23	neurological disorder that arose from the vaccine	<sup>23</sup> A Yes. That's what it states.
24	after five days?	<sup>24</sup> Q Does it, reports of arthritis?
25	A No.	<sup>25</sup> A It is mentioned.
	Page 152	Page 153
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	Page 154	Page 155
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	they looked at was multiple sclerosis?	<sup>2</sup> that it favors rejection of a causal relationship,
3	A Among others, yes.	<sup>3</sup> correct?
4	Q Among others. And that they specifically	<sup>4</sup> A Yes, that's correct.
5	looked at it with regards to hepatitis B?	<sup>5</sup> Q But it didn't reach, sorry, it didn't
б	A Yes.	<sup>6</sup> reach that conclusion for hepatitis B and multiple
7	Q And do you know what their finding was?	<sup>7</sup> sclerosis, correct?
8	A I don't remember the exact wording, no.	<sup>8</sup> A It did not reach that conclusion.
9	Q Maybe this will remind you: Inadequate to	<sup>9</sup> Q Okay.
10	accept or reject a causal relationship.	<sup>10</sup> A But other data suggests that that
11	They didn't know, correct?	<sup>11</sup> conclusion is warranted, that there is no
12	A Yes. Yes. But you have to understand,	<sup>12</sup> relationship.
13	first of all, that science continues and so studies	<sup>13</sup> MR. SIRI: Well, I'll make a demand for
14	continue. And secondly, that the IOM specifically	<sup>14</sup> that. You can produce that after this
15	decided that they would not draw a conclusion if	<sup>15</sup> deposition.
16	they weren't sure of the conclusion.	<sup>16</sup> BY MR. SIRI:
17	So what that statement means is that	<sup>17</sup> Q What would need to be done to in order
18	they don't have data that confirm that multiple	<sup>18</sup> to know whether or not any of these reported
19	sclerosis is caused by the hepatitis B vaccine and	<sup>19</sup> conditions are caused by the vaccine, what you would
20	they, that they don't regard that they have enough	<sup>20</sup> need is a properly randomized, as you've said
21 22	data to positively exclude it. So you cannot read	<ul> <li>earlier, placebo-controlled study, correct?</li> <li>A Correct</li> </ul>
22	that as saying that multiple sclerosis is caused by	A concet.
23	hepatitis B vaccine.	Q Okuy.
25	Q I never said that. The IOM did for some of the vaccines and adverse reactions, did conclude	<ul> <li>A And, also, I would point out that multiple</li> <li>sclerosis is a disorder of adults, and the issue</li> </ul>
10	of the vaccines and adverse reactions, the conclude	sciencisis is a disorder of adults, and the issue
	Page 156	Page 157
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1 2	Stanley Plotkin, M.D. that arose in France was related to vaccination of	<ol> <li>Stanley Plotkin, M.D.</li> <li>discussed, in order to establish whether it's causal</li> </ol>
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2	that arose in France was related to vaccination of	<sup>2</sup> discussed, in order to establish whether it's causal
2 3	<ul><li>that arose in France was related to vaccination of adults.</li><li>Q Okay.</li><li>A There, that does not mean that it would be</li></ul>	<ul> <li>discussed, in order to establish whether it's causal</li> <li>between the vaccine and the condition, you need a</li> <li>randomly, a randomized, placebo-controlled study?</li> <li>A Yeah.</li> </ul>
2 3 4 5 6	<ul> <li>that arose in France was related to vaccination of adults.</li> <li>Q Okay.</li> <li>A There, that does not mean that it would be an issue, even if it were an issue, for children.</li> </ul>	<ul> <li>discussed, in order to establish whether it's causal</li> <li>between the vaccine and the condition, you need a</li> <li>randomly, a randomized, placebo-controlled study?</li> <li>A Yeah.</li> <li>Q But that was not done for this hepatitis B</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>that arose in France was related to vaccination of adults.</li> <li>Q Okay.</li> <li>A There, that does not mean that it would be an issue, even if it were an issue, for children.</li> <li>Q Dr. Plotkin, I was just asking what it says on there. There's lots of conditions listed.</li> <li>I'm not saying that multiple sclerosis is caused by this. I'm just asking if it's listed on Section 6.2.</li> <li>In fact, we can even read the top of Section 6.2 which says: The following additional adverse reactions have been reported with the use of the marketed vaccine. Because these reactions are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency or establish a causal relationship to a vaccine exposure, right?</li> <li>A Correct.</li> <li>Q Okay. So that's what it says right at the top of 6.2?</li> <li>A Mm-hmm.</li> </ul>	discussed, in order to establish whether it's causal         discussed, in order to establish whether it's causal         between the vaccine and the condition, you need a         randomly, a randomized, placebo-controlled study?         A Yeah.         Q But that was not done for this hepatitis B         vaccine before licensure, was it?         A No.         Q Okay. And given that the vaccine now         appears on the CDC's recommended list, isn't it true         that it would now be considered unethical to conduct         such a study today?         A It would be, yes, it would be ethically         difficult.         Q So let's take a look at Engerix-B. That's         the other the hepatitis B vaccine that you testified         that you recommend Faith receive.         Do you know how long adverse         reactions were reviewed after each dose of that         vaccine in the prelicensure clinical trial?         A Not offhand, no.         (Exhibit Plaintiff-11 was         marked for identification.)
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	Page 158		Page 159
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Plaintiff's Exhibit 11. This is the manufacturer	2	Q Or a neurological disorder that arises
3	insert for the Engerix-B, correct?	3	after four days?
4	A Yes.	4	A No. That would be reported later.
5	Q Okay. If you turn to Section 6.1, which	5	Q Uh-huh. And can you provide any proof
6	is clinical trials experience, can you please tell	6	that there was any reports or follow-up after those
7	me how long the safety review period was in the	7	four days?
8	prelicensure clinical trials after each dose?	8	A Well, it doesn't say that here, but I am
9	A All subjects were monitored for four days	9	willing to bet that they did collect reactions after
10	post administration. That does not necessarily mean	10	four days. And I imagine that the FDA would not
11	that they didn't collect reactions after four days.	11	have allowed them not to do that.
12	Q Are you claiming they collected reactions	12	Q But as you sit here today, that's just
13	after four days but didn't disclose it here in	13	speculation, correct?
14	violation of the Code of Federal Regulations?	14	A Yes, that's speculation based on
15	A I daresay that they collected putative	15	experience.
16	reactions for a longer period. I feel quite	16	MR. SIRI: I'm going to make a request for
17	positive about that. When they say they were	17	you to provide proof of what you're claiming,
18	monitored for four days, that means active	18	that there was actually, for both hepatitis B
19	monitoring as opposed to collecting reports later	19	vaccines, any safety review that occurred after
20	on.	20	four days of administration of any dose of
21	That is not uncommon in clinical	21	these vaccines.
22	trials.	22	MS. NIEUSMA: Again, I'm going to continue
23	Q Is four days long enough to detect an	23	the objection, I guess, from last time since we
24	autoimmune issue that arises after four days?	24	took a longer break. There's a proper
25	A No.	25	procedure to request documents in discovery.
	Page 160		Page 161
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	He doesn't have to come back and produce it.	2	not disclosing it because there was none.
3	MR. SIRI: Objection's noted. Thank you.	3	A Well
4	BY MR. SIRI:	4	Q Go ahead.
5	Q So, and there's no, there was no placebo	5	A All right. Go ahead.
6	group, correct? In the 13,000, in the trial at the	6	MS. RUBY: Ms. Nieusma, are you still
7	top where it talks about 13,000 doses being	7	there?
8	administered.	8	MS. NIEUSMA: Yes. My headset died, but I
9	A It does not say that there was a control	9	called back in. So I didn't I don't think I
10	group. I don't know. I'd have to go back and look	10	missed much. Are you still going over the
11	at the study.	11	insert?
12	Q And do you believe, so you think there	12	BY MR. SIRI:
13	but you're just speculating that there might have	13	Q So let's go back to section, now
14	been a control group?	14	Section 6.2 on this manufacturer insert for
15	A There well might have been. It's not	15	Engerix-B. It talks about the post-marketing
16	unusual for controls to be included, especially if	16	experience for this vaccine. This one lists for
17	you're looking at reactions. But I don't know	17	immune disorders, immune system disorders that were
18	specifically for this study.	18	reported, a whole number of them, correct?
19	Q If you're claiming there might have been a	19	A Mm-hmm.
20	control group, then please do provide support for	20	Q And it also lists a number of nervous
21	that, because as far as I understand, the	21	system disorders, including encephalitis,
22	monutacturar and this was who makes Engariv P?	22	encephalopathy, migraine, multiple sclerosis,
	manufacturer and this was who makes Engerix-B?	0.0	
23	Glaxo? One of your clients.	23	neuritis
23 24	Glaxo? One of your clients. If there was a control group, they	24	A Mm-hmm.
23	Glaxo? One of your clients.		

	Page 162		Page 163
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	question all the way at the end. Guillain-Barre	2	same manufacturer insert for the hepatitis B, if you
3	syndrome, Bell's palsy, optic neuritis, paralysis,	3	take a look over there, I think you'll find that it
4	paresis, seizures, syncope, and transverse myelitis,	4	provides that there was a follow-up with regard to
5	correct? It lists all of those?	5	efficacy, not safety, efficacy, that was beyond the
6	A Yes.	6	four days?
7	Q Okay. But to know whether or not these	7	A Yeah.
8	are actually caused by Engerix-B, again, you would	8	Q Do you see there was a 12-month and an
9	need a properly randomized, placebo-controlled	9	18-month follow-up?
10	study, correct?	10	A Yes.
11	A Correct.	11	Q So just to be clear, efficacy of the
12	Q But this study wasn't done prelicensure	12	vaccine was followed up for at least 12 months or
13	for this vaccine, right?	13	18 months, but safety was only done for four or five
14	A I'd have to go back and look at the	14	days?
15	original studies. But these data, undoubtedly,	15	A I do not agree with that statement.
16	refer not only to the study that was done before	16	Q Okay.
17	licensure, but also to phenomena reported after	17	A I do believe that GSK, like any other
18	licensure.	18	company, would have followed their patients much
19	Q That's 6.2. Okay. And, again, given this	19	longer than four days and would have collected
20	vaccine now appears on the CDC's recommended list,	20	reaction data.
21	it would be unethical to do a randomized,	21	Q And if they didn't do that, you would
22	placebo-controlled study of this vaccine, right?	22	agree that that is completely inadequate in terms of
23 24	A In children it would be unethical. It	23 24	assessing safety prelicensure?
24 25	could be done in adults.	24	A I would say that would be inadequate, yes.
20	Q Now, if you please go to page 11 of this	23	Q Do you agree with the CDC's recommendation
	Page 164		
	i dge i ti i		Page 165
1		1	
1 2	Stanley Plotkin, M.D. that babies receive a hepatitis B on the first day	1 2	Page 165 Stanley Plotkin, M.D. One of the things you said in the
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. that babies receive a hepatitis B on the first day	2	Stanley Plotkin, M.D. One of the things you said in the
2 3	Stanley Plotkin, M.D. that babies receive a hepatitis B on the first day of life?	2 3	Stanley Plotkin, M.D. One of the things you said in the past and I believe is that without clinical trials,
2 3 4	Stanley Plotkin, M.D. that babies receive a hepatitis B on the first day of life? A Yes. Q And these are, the Engerix-B and Recombivax HB are the only two hepatitis B vaccines	2 3 4	Stanley Plotkin, M.D. One of the things you said in the past and I believe is that without clinical trials, without a control group in a clinical trial, you're
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	Page 166		Page 167
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A I do not know offhand. But, Counselor,	2	review period for the prelicensure clinical trial as
3	IPV has been used throughout the world for years in	3	provided in the manufacturer insert for IPOL only
4	millions of people, and safety data have been	4	reviewed safety for 48 hours?
5	collected on many such studies. And essentially,	5	A Once again, I have no doubt that safety
б	serious reactions to IPV are extremely rare. So IPV	6	observations were made after 48 hours, but they
7	is a very safe vaccine.	7	expected that immediate reactions, such as a sore
8	Q I'm asking you in the prelicensure	8	arm or fainting or something like that, would have
9	clinical trial for	9	happened within 48 hours.
10	A That goes back to Jonas Salk where he	10	And, also, I'm sure that they're
11	well, he, where millions of children actually were	11	talking about their own specific production of IPV
12	vaccinated with IPV back in the '50s.	12	and not relying on the millions of other people who
13	Q And is there clinical trial data on	13	have been vaccinated with IPV.
14	safety?	14	Q I'm going to hand you what's being marked
15	A Yes.	15	as Exhibit 12. This is the manufacturer insert for
16	Q Is that the same vaccine that's used	16	the IPOL polio virus vaccine inactivated.
17	today?	17	(Exhibit Plaintiff-12 was
18	A Yes.	18	marked for identification.)
19	Q Are you prepared to produce that clinical	19	BY MR. SIRI:
20	data?	20	Q If you could please turn
21	A Those data are in this book, and I'll be	21	A So let's
22	glad to provide you with the references if you	22	Q to Section 6.1, Dr. Plotkin. This is
23	really insist. But IPV, as I've said, has been used	23	an older one. If you could turn to the adverse
24	in millions and millions of people.	24	reactions, which is on page 12, 14.
25	Q If it's so safe, then how come the safety	25	MS. NIEUSMA: I'll preserve the objection.
	Page 168		Page 169
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	To my understanding, Dr. Plotkin had no role in	2	you know whether a reaction was caused by DTP or
3	study design. You're asking him to speculate	3	IPV?
4	as to the reasoning of other people that he had	4	A You could not.
5	no contact with.	5	Q Okay. If you
6	MR. SIRI: Okay. He's testifying that my	6	
7		1	A However, they do say these systemic
	client should receive this vaccine. I can	7	reactions were comparable in frequency and severity
8	certainly ask him about the prelicensure	8	reactions were comparable in frequency and severity to that reported for DTP given alone without IPV.
9	certainly ask him about the prelicensure clinical trials that were done to assess its	8	reactions were comparable in frequency and severity to that reported for DTP given alone without IPV. Q And DTP was the vaccine we talked about
9 10	certainly ask him about the prelicensure clinical trials that were done to assess its safety. And you've put him up as an expert in	8 9 10	reactions were comparable in frequency and severity to that reported for DTP given alone without IPV.
9 10 11	certainly ask him about the prelicensure clinical trials that were done to assess its safety. And you've put him up as an expert in vaccinology. But your objection is noted and	8 9 10 11	reactions were comparable in frequency and severity to that reported for DTP given alone without IPV. Q And DTP was the vaccine we talked about earlier that was withdrawn from the market, correct
9 10 11 12	certainly ask him about the prelicensure clinical trials that were done to assess its safety. And you've put him up as an expert in vaccinology. But your objection is noted and preferred for the record.	8 9 10 11 12	reactions were comparable in frequency and severity to that reported for DTP given alone without IPV. Q And DTP was the vaccine we talked about earlier that was withdrawn from the market, correct A Yes.
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	Page 170	Page 171
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q So it's more recent, right?	<sup>2</sup> Q How come there's no clinical trial data in
3	A (No response.)	<sup>3</sup> the manufacturer insert?
4	Q Dr. Plotkin, I'm going to hand you what's	<sup>4</sup> A That is something that the FDA would have
5	been marked as Plaintiff's Exhibit 13.	<sup>5</sup> decided isn't necessary.
6	(Exhibit Plaintiff-13 was	<sup>6</sup> Q Are you willing to
7	marked for identification.)	<ul> <li>A But we're talking about a vaccine that's</li> </ul>
8	BY MR. SIRI:	<ul> <li><sup>8</sup> been given to millions of children. And just I</li> </ul>
9	Q This is the manufacturer insert for MMR	<sup>9</sup> insist on this point, that measles is now a
10	II, correct?	<sup>10</sup> relatively rare disease in the United States because
11	A Yes.	<sup>11</sup> most children receive measles, MMR vaccine.
12	Q If you go to the precaution section, I'm	<sup>12</sup> However, in the last, since 2000,
13	sorry, the adverse reaction section, I apologize, on	<sup>13</sup> because of children who have not been vaccinated,
14	page 6, what you'll find is that there was no	<sup>14</sup> there have been five cases of measles I'm sorry,
15	clinical trial prior to licensure for MMR, correct?	<sup>15</sup> 24 cases of measles encephalitis and three deaths
16	A I doubt very much that's the case.	<sup>16</sup> caused by measles itself. So
17	Q You're not aware that it's is it are	$^{17}$ Q Dr. Plotkin, we'll get to that piece of
18	you aware that it is a grandfathered product?	<sup>18</sup> this, but right now I'm trying to talk to you about
19	A I am not aware that it's grandfathered. I	<sup>19</sup> the prelicensure clinical safety
20	was alive and well when the product was first	<sup>20</sup> A What I'm telling you is millions of
21	licensed, and it was tested extensively before it	<sup>21</sup> doses
22	was licensed.	$^{22}$ Q I understand that.
23	Q So	<sup>23</sup> A have been used of this vaccine
24	A So to say that it hasn't been tested is	<sup>24</sup> Q I understand you want to
25	absolute nonsense.	$^{25}$ A and that there was prelicensure
	Page 172	Page 173
1		
1 2	Page 172 Stanley Plotkin, M.D. trials	
	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. trials	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q So you're claiming something happened, but</li> </ol>
2 3	Stanley Plotkin, M.D. trials Q Okay.	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q So you're claiming something happened, but you're not willing to provide any proof that it</li> </ol>
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2	that the vaccine has been studied extensively over a	<sup>2</sup> absolutely certain that they were done when the
3	period of 50 years.	<sup>3</sup> measles the rubella vaccine I developed was
4	Q I know I understand you want us to just	<sup>4</sup> incorporated into MMR.
5	take your word for it, but I prefer to rely on	<sup>5</sup> Obviously clinical trials were done
6	science, peer-reviewed publications and clinical	<sup>6</sup> before licensure. I'm absolutely certain about
7	trials.	<sup>7</sup> that.
8	A That's what you'll find in there.	<sup>8</sup> Q Well, maybe they're not included because
9	Q So, you know, I understand that you're	<sup>9</sup> they didn't include a placebo group.
10	getting a little upset about me trying to ask for	<sup>10</sup> A They may not have included placebo group,
11	the data, but that's I'm just trying to get to	<sup>11</sup> yes.
12	the substance. The FDA requires a clinical trial be	<sup>12</sup> Q So maybe they weren't deemed valid enough
13	on the insert. They're not here. Okay?	<sup>13</sup> to consider a clinical trial?
14	So let's you're saying that this	<sup>14</sup> A That's absolutely false because you can
15	table and let me take a look at it. This would	<sup>15</sup> certainly collect reactions in individuals who
16	have been post licensure, not prelicensure. And it	<sup>16</sup> receive the vaccine, for example, fever and seizures
17	doesn't indicate a placebo group, nor that it was	<sup>17</sup> and that sort of thing that happen immediately and
18	so I'm not this is not a clinical trial, as far	<sup>18</sup> whether there's an effect on blood cells, et cetera.
19	as I can tell.	<sup>19</sup> Those things were definitely done.
20	Do you have a, can you point me to	<sup>20</sup> I'm absolutely certain about that
21	something that had a placebo group and was	<sup>21</sup> because I was there.
22	prelicensure, please, sir?	Q But there was no control group?
23	A I'm not sure of the placebo group. I	A I don't remember there being a control
24 25	would have to go back and look at the individual	<ul> <li>group for the studies that I'm recalling.</li> <li>O So you don't so you're not aware of any</li> </ul>
20	studies. But in terms of prelicensure studies, I am	<sup>25</sup> Q So you don't, so you're not aware of any
	Dago 176	
	Page 176	Page 177
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1 2		<ol> <li>Stanley Plotkin, M.D.</li> <li>they're extensive. And, of course, we won't know</li> </ol>
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	Page 178	Page 179
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	BY MR. SIRI:	<sup>2</sup> days following any dose, one through three of
3	Q I'm going to hand you what's been marked	<sup>3</sup> DAPTACEL plus IPOL plus ActHIB vaccinees, 50 of
4	as Plaintiff's Exhibit 14, Dr. Plotkin. This is the	<sup>4</sup> 1,455 that's 3.4 percent participants
5	manufacturer insert for ActHIB, correct?	<sup>5</sup> experienced a serious adverse event, right?
6	A Yes.	6 A Yes.
7	Q If we go to Section 6.1 which is the	<sup>7</sup> Q Now, one way to establish whether or not
8	clinical trials experience, I believe you'll see it	<sup>8</sup> those adverse events were related to the vaccine was
9	addresses a number of clinical trials that were	<sup>9</sup> to have a placebo group, a control group receiving
10	performed, correct?	<sup>10</sup> an inert substance, correct?
11	A Yes.	<sup>11</sup> A That's one way.
12	Q What were the safety review periods in	<sup>12</sup> Q That's right. But there wasn't a control
13	these trials?	<sup>13</sup> group here receiving an inert substance, correct?
14	A Forty-eight hours. Yes.	14 A As far as it says, no.
15	Q Actually, you know, if you turn to page 8,	<sup>15</sup> Q Right. And the control group here
16	Dr. Plotkin, they did one that actually was 30 days	<sup>16</sup> received other vaccines, correct?
17	long, correct?	<sup>17</sup> A Yes.
18	A Say again.	<sup>18</sup> Q And
19	Q I said if you turn to page 8 of the	<sup>19</sup> A Well, actually, it does appear to be
20	insert, one of the clinical trials they did actually	<sup>20</sup> well, for dose four, anyway oh, no, I'm sorry.
21	did look at, did do a 30-day follow-up, correct?	<sup>21</sup> Excuse me.
22	A Yes.	<sup>22</sup> Q Yeah. It's It's all right.
23	Q Now, I'm going to read you a sentence from	<sup>23</sup> Anyway, so since there is no placebo
24	the paragraph at the bottom of that page.	<sup>24</sup> group receiving an inert substance, then it's left
25	It says: In study P3206, within 30	<sup>25</sup> to the vaccine manufacturer seeking licensure to
	Page 180	Page 181
1	Page 180 Stanley Plotkin, M.D.	Page 181           1         Stanley Plotkin, M.D.
1 2		
	Stanley Plotkin, M.D.	<ol> <li>Stanley Plotkin, M.D.</li> <li>accumulate all things that happen to children in a trial. And when they say it's serious, they mean</li> </ol>
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	Page 182		Page 183
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	3.4 percent of children receiving a saline injection	2	shot and those who didn't had the same rate of flu.
3	to experience a serious adverse event within 30 days	3	But those who got the flu shot were four times more
4	of receiving the injection?	4	likely to get certain other respiratory infections?
5	A That's what that means; yes.	5	A I have not read that particular study.
6	Q Okay. So 3.4 percent every month, that	6	Q We can get to it later.
7	would mean within three years, every child in this	7	A But influenza vaccine is a whole story in
8	country would experience a serious adverse event,	8	itself.
9	correct?	9	Q Okay. That's fine. If you haven't read
10	A Yes. That's correct.	10	it, that's, you know, we can get to it. I have it.
11	Q Okay.	11	We'll come back to it.
12	A But you have to understand that "serious	12	Now, there was, there's another Act,
13	adverse events" mean, for example, that a child	13	there's another Hib vaccine called Hiberix, right,
14	develops a respiratory infection during the period	14	and then which was licensed after ActHIB,
15	of the trial. And then the question is, could that	15	correct?
16	respiratory infection be attributed to the vaccine?	16	A Yes.
17	And the Board decides whether or not	17	Q And in that clinical trial, they used
18	it's likely that a vaccine could cause a respiratory	18	ActHIB as the placebo to assess safety, correct?
19	infection two or three weeks after the vaccination,	19	A If you say so.
20 21	for example.	20	Q Okay. The CDC's pediatric schedule, you
21	Q Wasn't there recently a study out of	21 22	testified earlier, also includes vaccination for
22	Hong Kong in which it was actually one of the few	23	HPV, correct?
23	randomized placebo-controlled studies in which some	23	A Yes.
25	children were, randomly got flu vaccine and others didn't get the flu shot; and those that got the flu	24	Q I'm going to hand you what's been marked as Plaintiff's Exhibit 15.
25	dian't get the flu shot, and those that got the flu	25	as Flamun s Exhibit 13.
		1	
	Page 184		Page 185
1	Page 184 Stanley Plotkin, M.D.	1	Page 185 Stanley Plotkin, M.D.
1 2		1 2	
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. (Exhibit Plaintiff-15 was marked for identification.) BY MR. SIRI: Q Sorry. Handing it to you. This is the manufacturer insert for GARDASIL, correct? A Yes. Q Which is a vaccine against HPV? A Yeah. Q GARDASIL is currently the only HPV vaccine used in GARDASIL, I'm going to ask you a question unrelated to what I just handed you for a moment while my co-counsel here sends a copy to opposing counsel. MS. NIEUSMA: You can keep going. I have seen the GARDASIL inserts. MR. SIRI: Okay. Thank you. BY MR. SIRI: Q So GARDASIL is currently the only HPV used in the United States, correct? A I'm not sure whether the GSK vaccine is still being used or not, but GARDASIL is the one	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. A (Witness complies.) Q Okay. This table reflects girls and women nine through 29 years of age who reported an incident condition potentially indicative of a systemic autoimmune disorder during the clinical trial, correct? A Yes. Q The subjects receiving GARDASIL show a rate of 2.3 percent. All right. So that means 2.3 percent of the girls and women in the clinical trial during a six-month period had an incident that indicated a systemic autoimmune disorder, correct? A Yes. Q Okay. And in the AAHS control or saline placebo group, it shows the same rate, correct? A Yes. Q Do you know how many individuals were in the saline placebo group versus the AAHS control group? A Well, it says 9,412. Q That would be the total number for both

	Page 186		Page 187
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	of them received AAHS, and some of them received a	2	A The aluminum adjuvants.
3	saline injection, correct?	3	Q And I see it's defined here as amorphous
4	A Correct.	4	aluminum hydro
5	Q Okay. Do you know how many received a	5	A Hydroxyphosphate sulfate.
6	saline injection over an AAHS injection?	6	Q Right?
7	A Don't know.	7	A Yes.
8	Q Okay. Let's go to page 4, and table one	8	Q Thank you.
9	is for girls and table two is for boys. I'm	9	Which we'll refer to as AAHS or the
10	assuming all participants were either girls or boys.	10	aluminum adjuvant?
11	If we add up the saline placebo group for the girls	11	A Yes.
12	and the saline placebo group for the boys, do we get	12	Q Good?
13	594?	13	Okay. AAHS is not an inert
14	A Well, I have to do the arithmetic. But it	14	substance, correct?
15	appears that there were about 5,000, more than 5,000	15	A Well, it's not saline, if that's what you
16	in the AAHS control and about 600 in the saline	16	mean. But they use it as a control because they're
17	placebo.	17	trying to make, to determine what the reactions are
18	Q Right. It's about 594. It's about 600.	18	to the HPV vaccine that contains the aluminum and
19	That's right, right?	19	separating the reactions to vaccine from reactions
20	A Mm-hmm.	20	to the aluminum.
21	Q Okay. So if we go back to page 8, the	21	Q Let me try and understand that. Are you
22	saline placebo group had about five in 600, and the	22	saying they're trying to determine what the rate of
23	rest of them were AAH control, correct?	23	reactions is between the group that gets GARDASIL
24	A Apparently, yes.	24	A Yes.
25	Q Yeah. What does AAHS stand for?	25	Q with the group that gets the
	Page 188		Page 189
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	aluminum	2	Q The antigens bind to the aluminum?
3	A Yes.	3	A Yes.
4	Q with the group that gets saline?	4	Q And the aluminum is persistent?
5	A Yes.	5	A Yes.
6	Q So they want to compare between those	6	Q And it remains in the body such that it
7	three distinct groups, correct?	7	continues to present the antigen such that
8	A Yes. Mm-hmm.	8	antibodies can be created to it, correct?
9	Q Okay. And they did do that in table one	9	A Well, at least during the immediate period
10	and two that we just looked at on page 2	10	of vaccination, yes.
11	A Yes.	11	Q Okay. There is, in fact, a syndrome
12	Q page 4, correct?	12	called autoimmune/autoinflammatory syndrome induced
13	A Yes.	13	by adjuvants, correct?
14	Q Why is aluminum added to the GARDASIL	14	A That is a debatable point. There's a
15	vaccine or any vaccine?	15	fellow named Yehuda Shoenfeld, an Israeli, who has
16	A To increase the immunogenicity of the	16	pushed this idea for many years, as I think it's
17	active part of the vaccine.	17	fair to say that he has never had acceptance by the
18	Q If I may, what you mean is that, if I	18	larger community of immunologists or
19 20	could use a little more laymen terms, are you saying	19	rheumatologists.
20	it's intended to stimulate the immune system to	20	(Exhibit Plaintiff-16 was
21 22	create antibodies?	21	marked for identification.)
22	A Yes.	22	BY MR. SIRI:
23	Q Would that be correct?	23	Q I'm going hand you what is being marked
24	A Yes. Not by itself, but by enhancing the	24	I'm going hand you what's being marked as
27	response to the vaccine antigens.	25	Exhibit 16.

	Page 190	Page 191
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	A Yes.	<sup>2</sup> A Yes.
3	Q Are you familiar with this book?	<sup>3</sup> Q Can you just flip through and look at the
4	A Generally speaking, yes. I can't say I've	<sup>4</sup> universities that are listed here where these over
5	read it all, no.	<sup>5</sup> 70 professors hail from. Are these respected
6	Q Okay. And it's entitled Vaccines In	<sup>6</sup> institutions of medicine around the world?
7	Autoimmunity, correct?	<sup>7</sup> A Well, first of all, Counselor, I have to
8	A Yes, correct.	<sup>8</sup> go over the CVs of each of the people here. You
9	Q Okay. And it extensively discusses,	<sup>9</sup> know, I don't know what their role is at the
10 11	it's it discusses many autoimmune conditions that	<sup>10</sup> universities. As I said before, Shoenfeld first <sup>11</sup> of all Shoenfeld himself is not anti-vaccination
12	the authors believe can be caused	of an, shoemend minsen is not and vaccination.
13	A Yeah.	<ul> <li>I know that for a fact.</li> <li>On the other hand, at least one of</li> </ul>
14	Q by vaccine, and in particular by aluminum adjuvants?	<ul> <li><sup>13</sup> On the other hand, at least one of</li> <li><sup>14</sup> his co-authors, Tomljenovic, is a well-known</li> </ul>
15	A I don't know about particularly aluminum	<sup>15</sup> anti-vaccination person who has written a lot about
16	adjuvants, but that's one of their arguments.	<sup>16</sup> how terrible vaccines are. And as far as the
17	Q Can you please turn to the contributors,	<sup>17</sup> articles are concerned, you know, I have to read
18	which starts on Roman, little Roman numeral nine.	<sup>18</sup> each one.
19	A (Witness complies.)	<sup>19</sup> But, for example, vaccination in
20	Q There are, I think, somewhere around 77	<sup>20</sup> patients with autoimmune inflammatory rheumatic
21	contributors listed here. You said that Yehuda	<sup>21</sup> diseases, in other words, patients who themselves
22	Shoenfeld was kind of alone, I think, or something	<sup>22</sup> already have autoimmune diseases, that's a,
23	like that with regard to the claim that	<sup>23</sup> certainly a legitimate field of study; in other
24	autoimmune/autoinflammatory syndrome induced by	<sup>24</sup> words, how do you vaccinate people who already have
25	adjuvants.	<sup>25</sup> autoimmune disease? Could their vaccinations make
	D 100	Dago 102
	Page 192	Page 193
1		
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
	Stanley Plotkin, M.D. things worse?	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q Familiar with University of Pisa?</li> </ol>
2	Stanley Plotkin, M.D.	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q Familiar with University of Pisa?</li> </ol>
2 3	Stanley Plotkin, M.D. things worse? But that doesn't necessarily mean	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q Familiar with University of Pisa?</li> <li>A No. I'm sure there is a University of</li> </ol>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. things worse? But that doesn't necessarily mean that the vaccines themselves cause disease. Now, here we have a chapter called "Measles, Mumps, and Rubella Vaccine: A Triad to Autoimmunity," of which Shoenfeld himself is one of the authors. I am what shall I say? I do not believe there is any solid evidence that measles, mumps, and rubella disease cause autoimmune responses. So, you know, lots of books are published, and a lot of them are absolute bull. Q Are you saying that this book is bull? A I haven't read the whole thing, but I'm almost certain there's a lot of bull in it, judging from the editors. Q Without reading it, right? A Without reading all of it, yes. Q Okay. Are you familiar with the Tel Aviv Sourasky Medical Center? A No. Q Are you familiar with the University of Paris?	1Stanley Plotkin, M.D.2QFamiliar with University of Pisa?3ANo. I'm sure there is a University of4Pisa.5QOkay. Are you familiar with the6Technion-Israel Institute of Technology?7A8Q9A9A10I can tell you one thing because I've11talked to Israelis about Shoenfeld, and Shoenfeld's12opinions are not majority opinions even in Israel.13Q9But for better or worse, there is a14syndrome out there that is called15autoimmune/autoinflammatory syndrome induced by16adjuvants, and there are apparently professors at19A18it is out there, right?19A10Least 70 professors at21Q22universities around the world that are in agreement23with that syndrome in his book

	Page 194		Page 195
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	that most of them probably do not agree because all	2	certainly should have broken out the aluminum
3	of the articles in this book don't say that vaccines	3	control from the saline placebo control and showed
4	cause autoimmunity. Some of them do.	4	them in two separate columns on page 8, correct?
5	Q Okay. There has been concern raised that	5	A They probably should have, yes.
б	aluminum adjuvants of vaccines can cause	6	Q So that you could see the difference in
7	autoimmunity.	7	autoimmune rate between the individuals receiving
8	A There has been concerns raised, yes.	8	the aluminum and the saline placebo, correct?
9	Q Okay. So if there's been concerns raised	9	A Yes.
10	that aluminum in vaccines can cause autoimmunity and	10	Q Okay. In your experience, would you
11	there's this medical text with which I understand	11	expect 2.3 percent of the girls, of girls and women
12	your opinion on, why combine the autoimmunity rate	12	in this country between the ages of nine and 26 to
13	in the aluminum adjuvant control with the	13	develop a systemic autoimmune condition in a
14	autoimmunity rate in the saline placebo? Why not	14	six-month period?
15	break those out to show them separately?	15	A Well, that's a hard question for me to
16	A Well, they did to some extent. But I	16	answer. I am not a rheumatologist. But the, when
17	think the reasoning was that they wanted to be sure	17	they say "autoimmune conditions," I'd have to read
18	that the reactions that were seen and let me	18	exactly
19	parenthetically say that HPV vaccine is painful.	19	Q There's a list
20	And they wanted to be sure that the reactions that	20	A what they mean.
21	they were seeing were not caused by the adjuvant or	21	Q If you go to page 8, they've got a long
22	that they were specific to the HPV antigens	22	list right there of the conditions. Starts with
23	themselves and not to the adjuvants. So I can judge	23	arthralgia.
24	that's why they did that.	24	A Right. Yeah. So they have included just
25	Q Well, under that logic, then they	25	about everything that you could consider in
	Page 196		Page 197
1	-	1	
2	Stanley Plotkin, M.D.	2	Stanley Plotkin, M.D.
3	autoimmune disorder. And all I can say is that they have, as I well, as I've just said, they've	3	A No, I Q AAHS?
4	attempted to include everything. And those are the	4	A No, I did not, without going back to the
5	data. You know, what can I say?	5	original study.
6	As far as 2.3 percent autoimmune	6	(Exhibit Plaintiff-17 was
7	disorders in six months, these are women nine	7	marked for identification.)
8	through 26 years of age, so they're not just girls.	8	BY MR. SIRI:
9	And I don't think it's impossible that that's the	9	Q Dr. Plotkin, I'm going to hand you what's
10	case, especially when you have a list of disorders	10	been marked as Plaintiff's Exhibit 17. This is the
11	that is so comprehensive as this.	11	clinical trial data for the saline placebo control
12	Q Okay. So 2.3 percent in six months,	12	group in the GARDASIL trial.
13	4.6 percent in a year, in ten years half the women	13	You can go to page 2, Dr. Plotkin.
14	in this country would have autoimmunity. In your	14	You can see that the number of vaccinated in the
15	experience, would that be accurate?	15	placebo is 596, right? Or you can see at the top on
16	A Well, again, I am not a rheumatologist, so	16	the first page. I'm sorry.
17	I cannot answer that question specifically. All	17	On the first page, Dr. Plotkin, it
18	that I can say is that they attempted to do a	18	says: A study of GARDASIL in preadolescents and
19	comprehensive study of autoimmune phenomena or	19	adolescents, correct?
20	putative autoimmune phenomena in this study, and	20	A Yeah.
21	that's what they found.	21	Q Page 2, you can see this. It has the 596
22	Q What, do you know the percentage of girls	22	saline placebo recipients. Can you please turn to
23	in the saline placebo group that developed a	23	the serious adverse event section, which is one,
24	systemic autoimmune condition during this clinical	24	two, three, four, five, six, seven, the seventh
25	trial versus the AAH control	25	page. They don't print with page numbers,
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	Page 198	Page 199
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	unfortunately.	<sup>2</sup> me, in the total, in all of, in both groups
3	A Serious adverse events.	<sup>3</sup> combined.
4	Q Okay. Now, if you go to the next page,	<sup>4</sup> A Yeah.
5	one right after that, take a look at that. You can	<sup>5</sup> Q If we pull out the saline placebo group of
6	see that the second column is the placebo, the	<sup>6</sup> 594 from the 9,412, would that make the 2.3 percent
7	results of the placebo group, correct?	<sup>7</sup> number go up or down?
8	A Mm-hmm.	<sup>8</sup> A It would go up slightly. That would be
9	Q Can you please take a minute and go	<sup>9</sup> I'd have to go back and look at the numbers. But
10	through each page and tell me if there was any value	<sup>10</sup> that would be reducing the total to about 8800. So
11	that wasn't zero in terms of finding a serious	<sup>11</sup> I guess that would be in here, right?
12	adverse event?	<sup>12</sup> Q Go to page 8.
13	A No, I don't see any.	<sup>13</sup> A Right.
14	Q So in the saline placebo group during the	<sup>14</sup> Q The point is, is that if they would have
15	trial, there was not a single systemic autoimmune	<sup>15</sup> broken out
16	disorder that was reported, but yet there was 218,	<sup>16</sup> A Two hundred over 8800, and I doubt if that
17	2.3 percent, or maybe more actually, in the AAH	<sup>17</sup> would show a significant difference between the
18	control when you pull out the saline placebo group.	<sup>18</sup> GARDASIL and the AAHS group.
19	Let me ask go ahead, please.	<sup>19</sup> Q So the GARDASIL group would 2.3, shows
20	A Again, you have to do the arithmetic. But	<sup>20</sup> 2.3 percent?
21	if you subtract the 600 or so from the total, you	<sup>21</sup> A Yeah.
22	can easily figure out the percentage in the aluminum	<sup>22</sup> Q If we took out the saline placebo group
23	group.	<sup>23</sup> from the second column, it would show 2.3 or above,
24	Q Right. So let's do that. Let's do that.	<sup>24</sup> around 2.3 still, correct?
25	So there's 900,412 in the aluminum group excuse	<sup>25</sup> A Maybe.
	Page 200	Page 201
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. Q A little higher, 2.4, 2.5?	<ol> <li>Stanley Plotkin, M.D.</li> <li>study in which 2.3 percent of participants in the</li> </ol>
2 3	Stanley Plotkin, M.D. Q A little higher, 2.4, 2.5? A 2.5. Yeah.	<ol> <li>Stanley Plotkin, M.D.</li> <li>study in which 2.3 percent of participants in the</li> <li>GARDASIL group and in the control group had a</li> </ol>
2 3 4	Stanley Plotkin, M.D. Q A little higher, 2.4, 2.5? A 2.5. Yeah. Q 2.5. And then if we had a third column	<ol> <li>Stanley Plotkin, M.D.</li> <li>study in which 2.3 percent of participants in the</li> <li>GARDASIL group and in the control group had a</li> <li>systemic autoimmune disorder, and it was deemed safe</li> </ol>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. Q A little higher, 2.4, 2.5? A 2.5. Yeah. Q 2.5. And then if we had a third column that was just the saline placebo, it would show 0 percent? A Yeah. Q Wouldn't that have been a significant finding to report? A I don't you'd have to ask a statistician. But I doubt the statistical difference would be significant. Q Doesn't it at least caution having a larger saline placebo group if your concern is statistics in terms of statistical power, which I assume A Yeah, they might have done that, if they Q But they didn't do that? A Yes. I don't know what that decision was based on. But if you're talking about implication of aluminum, at this point there's really no reason to suspect that aluminum by itself can cause	1Stanley Plotkin, M.D.2study in which 2.3 percent of participants in the3GARDASIL group and in the control group had a4systemic autoimmune disorder, and it was deemed safe5because they were around the same rate, right?6A7Q9But the saline placebo group that didn't9A9A10Q9A small group, yes.10Q11A12Q13turn back, Dr. Plotkin, to page 4, please of the14GARDASIL insert.15Are you there?16A17Q18column, those who received AAHS control in another,19and those that had saline placebo in a third column?20A18Right.21Q23A24Yes.
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Page	202
raye	202

	Fage 202		
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	group?	2	been marked as Plaintiff's Exhibit 18.
3	A Yes.	3	This is the manufacturer insert for a
4	Q If you turn to page 5, they, again, break	4	drug called Enbrel, correct?
5	out the GARDASIL/AAH control and saline placebo	5	A Mm-hmm.
6	groups in tables three and four, correct?	6	Q What is Enbrel a drug for?
7	A Yes.	7	A Well, it's essentially an
8	Q But they chose to conveniently combine it	8	immunosuppressive, and I think it's used a lot for
9	when it came to systemic autoimmune disorders,	9	autoimmune diseases and cancers.
10	right?	10	
11	-	11	Q This is a drug given to sick people, not healthy people, correct?
12	A Well, in the case of the page 4 and 5,	12	• • •
13	they were looking at local reactions. And, of	13	A Right.
14	course, aluminum does give local reactions.	14	Q Unlike vaccines which are typically given
	On page 8, whether we're looking at	15	to healthy children and babies, right?
15	systemic autoimmunity, I guess they believed that		A Right.
16	aluminum in itself is reasonable control and would	16	Q If you turn to page 10, Dr. Plotkin, all
17	not cause autoimmunity.	17	the way to the bottom, the 6.1, Section 6.1,
18	Q So going into the study, they just assumed	18	clinical studies experience.
19	aluminum wouldn't cause autoimmunity and so that's	19	A Mm-hmm.
20	how they proceed in designing it. I got it. All	20	Q The very first line under 6.1 says: The
21	right.	21	data described below reflects exposure to Enbrel in
22	(Exhibit Plaintiff-18 was	22	2,219 adult patients with RA followed for up to
23	marked for identification.)	23	80 months.
24	BY MR. SIRI:	24	A Mm-hmm.
25	Q Dr. Plotkin, I'm going to hand you what's	25	Q So that in studying this drug given to six
	Page 204		Page 205
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	people, they reviewed safety for up to six and a	2	cases has taken place over 50 or 60 years.
3	half years	3	Q I'm basing this Dr. Plotkin, I'm not
4	A Mm-hmm.	4	basing anything on anything. I'm just asking you
5		-	
	Q correct?	5	questions. And my questions are geared towards
6	And they also use	6	questions. And my questions are geared towards being able for my client to be able to pick up what
7	And they also use (Reporter clarification.)	6 7	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the
7 8	And they also use (Reporter clarification.) BY MR. SIRI:	6 7 8	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic
7 8 9	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes?	6 7 8 9	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate
7 8	And they also use (Reporter clarification.) BY MR. SIRI:	6 7 8 9 10	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product.
7 8 9	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes?	6 7 8 9 10 11	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. That's all I'm trying to ask you
7 8 9 10	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes? A Yes.	6 7 8 9 10	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. That's all I'm trying to ask you questions about, to understand. That's it. And in
7 8 9 10 11	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes? A Yes. Q And there was, and the placebo group here	6 7 8 9 10 11 12 13	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. That's all I'm trying to ask you
7 8 9 10 11 12	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes? A Yes. Q And there was, and the placebo group here was, in this study was a saline placebo for all	6 7 8 9 10 11 12	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. That's all I'm trying to ask you questions about, to understand. That's it. And in
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7 8 9 10 11 12 13 14	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes? A Yes. Q And there was, and the placebo group here was, in this study was a saline placebo for all controls, correct? A Yes. So what is your point?	6 7 8 9 10 11 12 13 14	questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. That's all I'm trying to ask you questions about, to understand. That's it. And in terms of your, what you've just said about Enbrel, let's just we'll just have one quick vaccine, and
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And they also use (Reporter clarification.) BY MR. SIRI: Q Was that yes? A Yes. Q And there was, and the placebo group here was, in this study was a saline placebo for all controls, correct? A Yes. So what is your point? Q I think the point speaks for itself, Dr. Plotkin. A It doesn't because Enbrel is given over long periods of time. And one has to, since its immunosuppressive, one has to look for things that may happen because of immunosuppression. Vaccines are given at particular times and are generally not continuously given over long periods of time. But because, aside from that, you're	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>questions. And my questions are geared towards being able for my client to be able to pick up what is supposed to be a document that includes the clinical trial experience of the particular biologic or drug and understand what the adverse events rate was for that product. <ul> <li>That's all I'm trying to ask you</li> <li>questions about, to understand. That's it. And in terms of your, what you've just said about Enbrel, let's just we'll just have one quick vaccine, and then you've really got to move on because I've got a little more material to cover. DTaP vaccine is given at two months of age, correct?</li> <li>A Yes.</li> <li>Q And at four months of age?</li> <li>A Yes.</li> <li>Q Eighteen months?</li> </ul> </li> </ul>
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	Page 206	Page 207
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	A Yes.	<sup>2</sup> package circular.
3	Q And then again at 11 years of age?	$^{3}$ Q So are you saying that the, instead of
4	A Yes.	<sup>4</sup> relying on clinical data, saline, inert,
5	Q In a slightly DTaP version?	<sup>5</sup> placebo-controlled studies, we should just rely on
б	A Mm-hmm.	<sup>6</sup> the experience well, isn't it true that there's a
7	Q So here you have just one vaccine put	<sup>7</sup> lot of people out there in fact, you've said a
8	aside the other one that is given over an	<sup>8</sup> lot of, used a lot of adjectives for them today so
9	extended period of time. But yet as we saw, as the	<sup>9</sup> far who are out there and say that their
10	manufacturer inserts will show, there is no clinical	<sup>10</sup> experience is that vaccines have caused all kinds of
11	trial that I'm aware of. And I'm happy for you to	<sup>11</sup> serious adverse reactions? Isn't that precisely
12	show me or produce one that actually does what the	<sup>12</sup> what is on Section 6.2 of each of those inserts?
13	study in Enbrel does, which is has a saline placebo	<sup>13</sup> If your approach is used, why are
14	control group and reviews safety over anything more	they not given equal weight, I mean, if that's the
15	than, you know, typically a few days or 30-day	<sup>15</sup> way we're going to do science? I'm asking for the
16	period.	<sup>16</sup> clinical data. <sup>17</sup> A Science depends on a body of work. It
17 18	A I dispute that. I think it is almost	A Science depends on a body of work. It
19	certain, or is certain in my mind, that they observe	does not depend on any single studies. It depends
20	the patients over a longer period of time, but that	on repetition, on data that commissioner data. And
21	they looked specifically for acute reactions during the first few days after immunization.	<ul> <li>so you cannot take any single study and rely on that</li> <li>and say that is the truth. The truth comes out of</li> </ul>
22	And, also, I add to that, and I	<ul> <li>and say that is the truth. The truth comes out of</li> <li>repetition and experience.</li> </ul>
23	insist on repeating that one has to look at the	<sup>23</sup> Q So is your point just to trust you versus
24	total experience with a drug or a vaccine over a	<sup>24</sup> actually have the actual data to support
25	period of time, not simply what is in the FDA	$^{25}$ A No. It's the accumulation of data.
	r ,	
	Page 208	Page 209
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q And you can provide data to support	<sup>2</sup> you can tell me if you agree or disagree with it.
3	everything you're saying here today, correct?	<sup>3</sup> Quote: Brachial neuritis is a form
4	A Everything that I'm saying is in this	<sup>4</sup> of peripheral neuropathy that affects the chest,
5	book.	<sup>5</sup> shoulder, arm, and hand. Peripheral neuropathy is a
6 7	Q You wrote that book?	<ul> <li>disease characterized by pain or loss of function in</li> <li>the nerves that carry signals to and from the brain</li> </ul>
8	A Sorry?	the nerves that early signals to and norm the brain
9	<ul><li>Q You're the editor of that book, correct?</li><li>A Yes.</li></ul>	<ul> <li><sup>8</sup> and spinal cord, the central nervous system, to</li> <li><sup>9</sup> other parts of the body, end quote.</li> </ul>
10	Q It's called Plotkin's Vaccines?	10 A Yes.
11	A Yes.	<sup>11</sup> Q Can DTaP or Tdap cause brachial neuritis?
12	Q Dr. Plotkin, what is thrombocytopenia?	<sup>12</sup> A If it's administered in the incorrect way,
13	A Decreased platelets.	13 yes.
14	Q Can it be caused by an autoimmune	<sup>14</sup> Q Can the MMR cause febrile seizures?
15	reaction? Isn't that what it's known to be caused	<sup>15</sup> A Yes.
16	by, the body attacking its own platelets?	<sup>16</sup> Q Can the flu shot cause Guillain-Barre
17	A That's one of the reasons, yes.	<sup>17</sup> syndrome?
18	Q Can the MMR vaccine cause	<sup>18</sup> A Uncertain, but possible.
19	thrombocytopenia?	<sup>19</sup> Q Can the DTaP or Tdap cause Guillain-Barre
20	A Yes.	<sup>20</sup> syndrome?
21	Q What is brachial neuritis?	A Not that I'm aware of.
22	A Brachial neuritis is basically a reaction	Q Hepatitis B cause Guillain-Barre syndrome?
23 24	to a local injection where you have pain in the arm.	A Again, I don't think the evidence supports that Guillain-Barre syndrome is a not-uncommon
24 25	Q I'm going to read you a definition of brachial neuritis from Johns Honkins Madicina and	diat. Sumain Darie Syndrome is a not uncommon
23	brachial neuritis from Johns Hopkins Medicine, and	<sup>25</sup> event, particularly in adults.

	Page 210		Page 211
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q After vaccination, is that what you mean?	2	or hep B?
3	A No. I mean in general.	3	A Well, it's difficult with influenza
4	Q In general. Okay.	4	because it is such a widely used vaccine. But I
5	Can the hepatitis B vaccine cause	5	don't see any medical reason why any one of those
6	encephalitis?	6	vaccines should cause transverse myelitis.
7	A No, I would say definitely not.	7	Q But it has been reported?
8	Q Can the MMR vaccine cause acute or chronic	8	A It has been reported. Influenza, I
9	arthritis?	9	suppose, may be, but I'm not aware of any proof.
10	A It can cause, in adults, it can cause	10	Q Are you aware that okay.
11	acute arthralgia, I would say, pains in the joints.	11	Can hepatitis B or the flu shot cause
12	But that does not seem to be a permanent phenomenon.	12	fibromyalgia?
13	And it's unusual in children.	13	A Fibromyalgia, that's such a vague
14	Q So yes for the acute in adults, but	14	syndrome. It's, again, difficult to know. But
15	otherwise uncertain?	15	influenza is, there's some differences between
16	A In children, it must be quite rare, if it	16	influenza vaccine and other vaccines. But with
17	occurs at all. But it does occur in adult women.	17	hepatitis B, I don't see any reason why it should
18	Q Can the flu shot DTaP or hep B cause	18	cause fibromyalgia.
19	transverse myelitis?	19	Q So no on the hep B and maybe on the flu?
20	A I would say that's unlikely. You said	20	A Yeah, I guess it boils down to that.
21	influenza. What did you say, hepatitis B?	21	Q Can DTaP or Tdap cause acute disseminated
22	Q Or DTaP.	22	encephalomyelitis?
23	A Or DTaP. I think that's the most	23	A I would say no.
24	unlikely.	24	Q Can the hepatitis A vaccine cause
25	Q More likely that it would be the flu shot	25	autoimmune hepatitis?
	Page 212		Page 213
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Oh, dear. No.	2	A It does if you want to be certain or at
3	Q Can hepatitis B cause lupus?	3	least a statistically strong relationship.
4	A I see no reason why it could.	4	Q What do you mean by "statistically strong
5	Q That's a no?	5	relationship"?
6	A No.	6	A I mean a situation where you have a
7	Q Can influenza cause lupus, influenza	7	comparative group and you can say that compared to
8	vaccine?	8	the comparative group, that the association you're
9	A I can see no mechanistic reason why it	9	looking at is statistically different than the
10	would. So I would say no.	10	control group.
11	Q Can hepatitis B vaccine cause rheumatoid	11	Q And from that you believe you can
12	arthritis?	12	determine causation?
13	A There have been studies along those lines,	13	A Well, you can determine association. Then
14	and I would say that they're unconvincing as far as	14	you have to look and see whether there is some kind
15			
16	the vaccine causing rheumatoid arthritis. The	15	of biological explanation.
	the vaccine causing rheumatoid arthritis. The difficulty is that rheumatoid arthritis is a common	16	Q Isn't it difficult to determine
17	the vaccine causing rheumatoid arthritis. The difficulty is that rheumatoid arthritis is a common disease. And it, of course, occurs frequently in	16 17	Q Isn't it difficult to determine association isn't it difficult to determine an
17 18	the vaccine causing rheumatoid arthritis. The difficulty is that rheumatoid arthritis is a common disease. And it, of course, occurs frequently in adults. So it's very difficult to know whether some	16 17 18	Q Isn't it difficult to determine association isn't it difficult to determine an association when it comes to vaccines and an alleged
17 18 19	the vaccine causing rheumatoid arthritis. The difficulty is that rheumatoid arthritis is a common disease. And it, of course, occurs frequently in adults. So it's very difficult to know whether some precipitating event could have caused it.	16 17 18 19	Q Isn't it difficult to determine association isn't it difficult to determine an association when it comes to vaccines and an alleged injury because everybody's, for the most part, gets
17 18 19 20	the vaccine causing rheumatoid arthritis. The difficulty is that rheumatoid arthritis is a common disease. And it, of course, occurs frequently in adults. So it's very difficult to know whether some precipitating event could have caused it. But at this point, I would say no.	16 17 18 19 20	Q Isn't it difficult to determine association isn't it difficult to determine an association when it comes to vaccines and an alleged injury because everybody's, for the most part, gets vaccinated?
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	Page 214		Page 215
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	should be conducted before licensure?	2	A I know nothing about the child and,
3	A It would be ideal to do so. But one would	3	therefore, am unable to answer.
		4	
4	also have to, would have to be very large studies		Q Do you know whether Faith has a genetic
5	and covering different age groups. And by and	5	variant that renders her predisposed to suffer any
6	large, those data come out much later after	6	of these conditions from vaccinations?
7	experience with the vaccine used in thousands or	7	A I do not.
8	millions of people.	8	Q Do you know whether Faith has a genetic
9	Q Well, that, of course, presumes that the,	9	variance in her microbiome DNA that renders her
10	that the adverse events are, long-term adverse	10	predisposed to suffer any of the conditions we
11	events are rare, doesn't it?	11	reviewed?
12	A Yes.	12	A I am not aware of that.
13		13	
14	Q Do you know whether Faith is susceptible	14	
	to any strike that.		environmental exposure that would render her
15	There's a lot of conditions, so I'm	15	predisposed to suffer any of the conditions that
16	going to try this a little bit of a different way so	16	we've just reviewed?
17	we can get through this a bit quicker. Is Faith	17	A No.
18	susceptible to suffer any of the conditions we have	18	Q In 1991 the IOM issued a report regarding
19	reviewed thus far?	19	vaccine safety. Are you familiar correct?
20	A You mean the infectious diseases or the	20	A Yes.
21	noninfectious diseases?	21	Q Are you familiar with that report?
22	Q I'm talking about the adverse event I'm	22	A Yes.
23	talking about the conditions that we just reviewed	23	Q That report looked at 22 serious injuries
24	starting with thrombocytopenia and ending with	24	associated with DTaP vaccines and rubella vaccines,
25	rheumatoid arthritis.	25	correct?
			<b>D</b> 01 <b>D</b>
	Page 216		Page 217
1		1	
1 2	Stanley Plotkin, M.D.	1 2	Stanley Plotkin, M.D.
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2 3 4	Stanley Plotkin, M.D. A Mm-hmm. Q Did you provide information to the was that a yes?	2 3 4	Stanley Plotkin, M.D. categories of conclusions, Dr. Plotkin, in that report? A Yeah, something like that they had, yeah.
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1		1	
	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	for DPT and MMR, correct?	2	A Autism.
3	A Yes.	3	Q Now, the IOM reviewed whether DPT can
4	Q So there are five conclusion categories,	4	cause 17 other serious conditions. And on this
5	correct?	5	chart it found that evidence supported a causation
6	A Mm-hmm.	6	for four of them for DPT; reject a causation for
7	Q The first one is no evidence bearing on a	7	four of them; but that the evidence was insufficient
8	causal relation, correct?	8	to determine causation for nine of them.
9	A Mm-hmm.	9	Is that correct?
10	Q And what that means, if you see the was	10	A Yes.
11	that a yes?	11	Q As for the MMR vaccine, the IOM reviewed
12	A Yes.	12	four conditions, right?
13	Q Okay. If you go to footnote C, which	13	A Mm-hmm.
14	defines what no evidence bearing on a causal	14	Q For the first two it was that a yes,
15	relation means, isn't it true that it says: No	15	Dr. Plotkin?
16	category of evidence was found bearing on a judgment	16	A Yes.
17	about causation. All categories of evidence left	17	Q I hate to trouble you; but if you could
18	blank in table 1-1, correct?	18	say "yes" instead of "mm-hmm," we'd speed things
19	A Yes.	19	along and I'd appreciate it.
20	Q There's only one condition for which they	20	For two of them, it found that the
21	couldn't find any evidence one way or another on	21	evidence was insufficient to make a causation
22	whether it caused, whether the vaccine causes that	22	determination, correct?
23	condition, correct?	23	A Yes.
24	A Right.	24 25	Q But for chronic arthritis, they found that
25	Q And that was what was that condition?	25	the evidence is consistent with the causal
	Page 220		Page 221
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	relationship?	2	again, particularly in adult women. It is not a big
3	A Yes.	3	problem in children.
4	Q That would be, there's evidence consistent		
		4	Q On the next page, Dr. Plotkin, where it
5	with a causal relationship between the MMR vaccine	5	says of the report, under research needs, does
5 6		5 6	
	with a causal relationship between the MMR vaccine and chronic arthritis, correct? A Yes.	5 6 7	says of the report, under research needs, does the first sentence say: In the course of its review, the committee encountered many gaps in
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	Page 222	Page 223
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	And in addition, WHO has set up	<sup>2</sup> disc No. 4 of the deposition of Dr. Stanley
3	safety reviews on vaccines. And, of course, CDC has	<sup>3</sup> Plotkin. We are on the record. The time is
4	a safety department, and there are funded sort of	<sup>4</sup> 14:33.
5	safety centers throughout the country.	<sup>5</sup> BY MR. SIRI:
6	Q Okay.	<sup>6</sup> Q Dr. Plotkin, you earlier said that it
7	A So it's not as if the vaccine community	<ul> <li><sup>7</sup> would be ethical, you believe, to conduct a</li> </ul>
8	has ignored the issue of vaccine safety.	<sup>8</sup> randomized, double-blind, placebo-controlled study
9	Q Well, wonderful. We'll go through all of	<ul> <li>9 of the childhood immunization schedule using adults;</li> </ul>
10	that; I can assure you. I've got to take it piece	<sup>10</sup> is that correct?
11	by piece. Okay?	11     A     You can't, I suppose you could test
12	So one step at a time. And we will	<sup>12</sup> childhood schedule in adults; but it wouldn't make a
13	get to Kaiser and the various things that you just	<ul> <li><sup>13</sup> lot of sense, if that's what you mean. You could</li> </ul>
14	talked about. We'll address all of them. I just	<ul> <li><sup>14</sup> test individual vaccines, I suppose, although the</li> </ul>
15	•	<sup>15</sup> adults, in all likelihood, will have been either
16	want to, hopefully we get to everything. MR. SIRI: You know what? Why don't we	<ul> <li><sup>16</sup> previously vaccinated or previously infected.</li> </ul>
17	•	
18	take a, just a two-minute, quick break.	<ul> <li>So it wouldn't be a very easy study</li> <li>to do, but I suppose it's conceivable.</li> </ul>
19	VIDEO OPERATOR: I'm going to end the	
20	disc.	Q Find you time, and it is sometiming that
20	MR. SIRI: Perfect.	could be done to assess the certainly adults are
22	VIDEO OPERATOR: This ends disc No. 3 of	not emiliaren. Dut it would at least give a sense of
23	the deposition of Stanley Plotkin. We are	the survey prome of people who ve on the one hand
23	going off the record. The time is 14:23.	gotten tile enhandbod senedatie versus tilose wito
25	(Brief recess.)	haven a rind i would unik it's something that you
25	VIDEO OPERATOR: This is the beginning of	<sup>25</sup> would, you know, any, that you would welcome, given
	Page 224	Page 225
1		Page 225
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
	Stanley Plotkin, M.D. that we should hopefully, I presume, show that both	<ol> <li>Stanley Plotkin, M.D.</li> <li>didn't had significantly higher rates of autoimmune</li> </ol>
2 3	Stanley Plotkin, M.D. that we should hopefully, I presume, show that both groups will have similar rates of any, of total	<ol> <li>Stanley Plotkin, M.D.</li> <li>didn't had significantly higher rates of autoimmune</li> <li>or neurological or other adverse events, you don't</li> </ol>
2	Stanley Plotkin, M.D. that we should hopefully, I presume, show that both groups will have similar rates of any, of total health outcomes.	<ol> <li>Stanley Plotkin, M.D.</li> <li>didn't had significantly higher rates of autoimmune</li> <li>or neurological or other adverse events, you don't</li> <li>think that could provide useful information for</li> </ol>
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	iliar with
<sup>3</sup> injections or the full childhood vaccine schedule. <sup>3</sup> that report?	
<sup>4</sup> Would you be willing to do that? <sup>4</sup> A '94?	
<sup>5</sup> A Yeah. Well, that then you'd have to <sup>5</sup> Q Yeah.	
<sup>6</sup> have <sup>6</sup> A The last one was in the 2000, as	s I recall.
7 Q I'm sorry. I didn't hear the answer. 7 Q 2011 was the last one.	
<sup>8</sup> Would you be willing to do that? <sup>8</sup> A Okay. Well, there was a large	one in
<sup>9</sup> A Yes. But then you'd have to have a group <sup>9</sup> about 2000 as well. Anyway, so	
<sup>10</sup> of 80-year-olds who received all of the childhood <sup>10</sup> Q 1994, let me give you	
<sup>11</sup> vaccines that are now given, which would be pretty <sup>11</sup> (Exhibit Plaintiff-20 was	
<sup>12</sup> difficult to do. So I think this kind of study <sup>12</sup> marked for identification.)	)
<sup>13</sup> you're talking about is either difficult or useless <sup>13</sup> BY MR. SIRI:	
<sup>14</sup> because you don't have the right groups to compare. <sup>14</sup> Q Handing you, Dr. Plotkin, what	t's been
<sup>15</sup> You could do it, perhaps, in <sup>15</sup> marked as Plaintiff's Exhibit 20. The t	itle of this
<sup>16</sup> 20-year-olds, if you could find 20-year-olds who <sup>16</sup> report is "Adverse Events Associated w	with Childhood
<sup>17</sup> haven't been vaccinated. <sup>17</sup> Vaccines," correct?	
<sup>18</sup> Q Well, if it was, if they did age controls <sup>18</sup> A Yes.	
<sup>19</sup> and so they had a range of ages, including 80- and <sup>19</sup> Q This is also by the Institute of M	
<sup>20</sup> 20-year-olds, would you be willing to participate? <sup>20</sup> This is also, in this report the IOM lool	ked at 54
A Oh, I'd be willing to participate in any serious injuries associated with a numb	per of
<sup>22</sup> reasonable study. <sup>22</sup> different vaccines, correct?	
<sup>23</sup> Q Okay. Great. <sup>23</sup> A Yes.	
A But I don't think it would be very useful. Q Okay. Did you provide information	
<sup>25</sup> Q In 1994, the IOM issued another report <sup>25</sup> IOM committee conducting this review	v?
Page 228	Page 229
<sup>1</sup> Stanley Plotkin, M.D. <sup>1</sup> Stanley Plotkin, M.D.	
<sup>2</sup> A I don't recall doing that. <sup>2</sup> four of the associated adverse events,	correct?
<sup>3</sup> Q Do you see on, under the acknowledgments <sup>3</sup> A Mm-hmm.	
$^4$ on the second page, your name is in the middle $^4$ Q Is that a yes?	
<sup>5</sup> there, Stanley Plotkin, Pasteur, Merieux I can't <sup>5</sup> A Yes.	
<sup>6</sup> pronounce. <sup>6</sup> Q You see in category four, it sa	iys: The
<ul> <li>A Merieux.</li> <li>P evidence favors acceptance of a causa</li> </ul>	al relation?
<sup>8</sup> Q Yeah. I don't speak French. I apologize. <sup>8</sup> A Yes.	
<sup>9</sup> Can you pronounce that? <sup>9</sup> Q Okay. Do you see that there i	s, there are
<sup>10</sup> A Merieux. <sup>10</sup> five conditions listed there, including	;
<sup>11</sup> Q That's M-E-R-I-E-U-X, C-O-N-N-A-U-G-H-T <sup>11</sup> Guillain-Barre, brachial neuritis, ana	phylaxis.
<sup>12</sup> Company. <sup>12</sup> Do you see that?	
<sup>13</sup> Now, if you go to, out of these <sup>13</sup> A Yes.	
$^{14}$ 54 pairs, the IOM found sufficient evidence to $^{14}$ Q And on the next page for cate	
<sup>15</sup> support a causal relationship for 14 of them and <sup>15</sup> which is the evidence establishes a ca	
<sup>16</sup> rejected a causal relationship for four of them. <sup>16</sup> do you see that it lists one, two, three	, four,
17     Do you see that?     17     five, six, seven conditions, correct?	
<ul> <li>A Where are you referring?</li> <li>A Yes.</li> <li>O So if you go Dr Plotkin to the fourth</li> <li>O Okay However for the remainder the remaind</li></ul>	
$f_{\text{M}} = f_{\text{M}} $	-
	e subtract out
<sup>20</sup> fifth-to-last page, it has the causality table. <sup>20</sup> conditions, so they looked at 54, if we	20 64
20fifth-to-last page, it has the causality table.20conditions, so they looked at 54, if we causality table.21AMm-hmm.21the three categories we just looked at 54.	
20fifth-to-last page, it has the causality table.20conditions, so they looked at 54, if we21AMm-hmm.21the three categories we just looked at22QDo you see category three is: The22conditions, the 38 remaining condition	ons, the IOM
20fifth-to-last page, it has the causality table.20conditions, so they looked at 54, if we21AMm-hmm.21the three categories we just looked at22QDo you see category three is: The22conditions, the 38 remaining condition23evidence favors rejection of a causal relationship?23couldn't make a causality determination	ons, the IOM on because the
20fifth-to-last page, it has the causality table.20conditions, so they looked at 54, if we21AMm-hmm.21the three categories we just looked at22QDo you see category three is: The22conditions, the 38 remaining condition	ons, the IOM on because the

	Page 230		Page 231
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q The IOM stated at the end of this report,	2	Q I'm sorry. Who commissioned and paid for
3	quote: The lack of adequate data regarding many of	3	that report?
4	the adverse events under study was a major concern	4	A No.
5	to the committee. Presentations of public meetings	5	Q Would it be surprising to you if I told
6	indicated that many parents and physicians share	6	you that HRSA, the agency within HHS that defends
7	this concern.	7	against vaccine injury, claims they commissioned
8	Do you see the last page of the	8	that report?
9	report that you're holding of the excerpts? Do you	9	A Wouldn't surprise me.
10	see that it says that on the first two lines under:	10	Q Did you provide information to the IOM
11	Need for research and surveillance?	11	committee conducting this review?
12	A Yes.	12	A I don't recall specifically whether I did
13	Q Dr. Plotkin, in 2011, the IOM then issued	13	or not. A lot of people ask for my opinions. When
14	its, another report on vaccine safety. And this	14	asked, I give my opinions.
15	time it looked at 158 of the most commonly claimed	15	Q Dr. Plotkin, I'm going to hand you what's
16	serious injuries after vaccination, right?	16	been marked as Exhibit 21.
17	A Yes.	17	(Exhibit Plaintiff-21 was
18	Q The title of that report is Adverse	18	marked for identification.)
19	Effects of Vaccines: Evidence of Causality?	19	BY MR. SIRI:
20	A Yes.	20	Q Is this the 2011 IOM report we were just
21	Q You're familiar with that report?	21	talking about?
22	A Yes.	22	A Yes.
23	Q Do you know who commissioned and paid for	23	Q Do you see there's Roman, little Roman
24	that report, by the way?	24	numeral seven, page little Roman numeral seven, see
25	A Which commission?	25	a section entitled Reviewers?
	Page 232		Page 233
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Oh, yes. I'm on the list.	2	were working for all four of the major vaccine
3	Q Do you see I'm going to the first two	3	makers, correct?
4	sentences and can you tell me if that's what this	4	A What do you mean working for them? I
5	report says.	5	mean, at that point I was no longer at Pasteur
6	It says: This report has been	6	Merieux Connaught.
7	reviewed in draft form by individuals chosen for	7	Q In 2011, were you receiving compensation
8	their diverse perspective and technical expertise in	8	or remuneration from Sanofi?
9	accordance with procedures approved by the National	9	A I was, yes, as I've said before. I was
10	Research Council's Report Review Committee. The	10	consulting for Sanofi as well as others.
11	purpose of this independent review is to provide	11	Q Were you consulting for Merck?
12	candid and critical comments that will assist the	12	A Yes, probably at that time, yes.
13	institutions in making its published report as sound	13	Q And GSK?
14	as possible and to ensure that the report meets	14	A Yes.
15	· ·	1 1 5	
16	institutional standards for objectivity, evidence,	15	Q Okay. And as well as a whole host of
16	institutional standards for objectivity, evidence, and responsiveness to the study charge.	16	other for-profit companies seeking to develop
17	institutional standards for objectivity, evidence, and responsiveness to the study charge. Is that what it says?	16 17	other for-profit companies seeking to develop vaccines, correct?
17 18	institutional standards for objectivity, evidence, and responsiveness to the study charge. Is that what it says? A Yes.	16 17 18	other for-profit companies seeking to develop vaccines, correct? A Yes.
17 18 19	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge.</li> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the</li> </ul>	16 17 18 19	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying
17 18 19 20	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge. <ul> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the report to to review?</li> </ul> </li> </ul>	16 17 18 19 20	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying that's not mentioned here, correct?
17 18 19 20 21	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge. <ul> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the report to to review?</li> <li>A Yes.</li> </ul> </li> </ul>	16 17 18 19 20 21	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying that's not mentioned here, correct? A No.
17 18 19 20 21 22	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge. <ul> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the report to to review?</li> <li>A Yes.</li> <li>Q And next to your name, it says:</li> </ul> </li> </ul>	16 17 18 19 20 21 22	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying that's not mentioned here, correct? A No. Q So do you know how many other individuals
17 18 19 20 21 22 23	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge. <ul> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the report to to review?</li> <li>A Yes.</li> <li>Q And next to your name, it says:</li> <li>University of Pennsylvania?</li> </ul> </li> </ul>	16 17 18 19 20 21 22 23	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying that's not mentioned here, correct? A No. Q So do you know how many other individuals who were involved in reviewing or compiling this
17 18 19 20 21 22	<ul> <li>institutional standards for objectivity, evidence, and responsiveness to the study charge. <ul> <li>Is that what it says?</li> <li>A Yes.</li> <li>Q And you're one of the people they gave the report to to review?</li> <li>A Yes.</li> <li>Q And next to your name, it says:</li> </ul> </li> </ul>	16 17 18 19 20 21 22	other for-profit companies seeking to develop vaccines, correct? A Yes. Q But I'm just saying, I'm just saying that's not mentioned here, correct? A No. Q So do you know how many other individuals

	Page 234		Page 235
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	this report?	2	A Yes. Apparently, yes.
3	A I have no knowledge of that.	3	Q If you look through this
4	Q You provided handwritten comments to the	4	A Oh, FA favors acceptance.
5	IOM for this report?	5	Q I meant I said FR. I'm sorry.
6	A If I reviewed the report, which apparently	6	FR favors rejection.
7	I did, I am sure I made comments. I don't know if	7	A Right.
8	they were handwritten. Probably not since my hand	8	Q FA favors acceptance.
9	reading [sic] is illegible.	9	A Mm-hmm.
10	Q All right. In this report, the IOM found	10	Q And CS is convincingly supports a causal
11	that 14 of the 158 serious injuries most commonly	11	relationship, right?
12	reported after certain vaccines were, that the	12	A Yes.
13	evidence supported a causal relationship, correct?	13	Q So I think that, I think what you'll note
14	A Where is that stated?	14	when you look through this chart is that most of the
15	Q Well, if you go to page 3 of the report,	15	conditions have an I, correct?
16	it's numeral three. Let me ask you the question a	16	A Yes.
17	different way, Dr. Plotkin. If you look at that	17	Q Any reason the report indicates that
18	chart, you can see that there's little symbols.	18	for 135 out of the 158 reviewed, they found that it
19	Do you see those, Dr. Plotkin?	19 20	could not locate sufficient evidence to make a
20	A Yes.	20	causality determination, right?
21 22	Q So an I represents inadequate to accept or	21	A Yes.
22	reject a causal relationship, correct?	23	Q So the IOM concluded that of the 135 most
23	A Yes.	23	commonly claimed injuries from vaccination, it
25	Q And an FR means favors rejection of a causal relationship, correct?	25	didn't know whether or not the vaccines caused
	causar relationship, correct?		that let me ask you something.
	Page 236		Page 237
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	You know, you earlier stated that,	2	Q Is that it doesn't cause it?
3	you stated that hepatitis B is, doesn't cause	3	A That there's no proof that it does.
4	encephalitis, right?	4	Q Okay. That's different than saying it
5	A That's, that's my opinion, yes.	5	doesn't cause it, correct?
б	Q But the IOM, after doing its review,	6	A Correct.
7	determined it couldn't find science to support a	7	Q So when you were saying earlier when I
8	causal determination one way or another, correct?	8	asked you at the beginning of this whether certain
9	A Yes. But that means that they don't have	9	vaccines caused certain conditions and you said, No,
10	evidence for the supposition.	10	they don't, did you just mean that, no, there's not
11	Q That it either causes or doesn't cause?	11	enough evidence to make a decision one way or
12	A Right.	12	another?
13	Q They don't know?	13	A I mean that there's no knowledge known to
14	A They don't know because there aren't	14	me that they do certain things that are, that some
15	enough data.	15 16	may have alleged happen after vaccination.
16 17	Q Okay. But you have	17	Q Like, for example, you know, the IOM
18	A In the absence of data, my conclusion is	18	reviewed whether hepatitis B can cause lupus because
19	that there are no, there's no proof that causation exists.	19	of lots of reports or influenza can cause lupus. They concluded that there's insufficient evidence
20		20	one way or another to make a determination. You
21	Q So if there's no data to show that it causes or doesn't cause	21	indicated
22	A Yes.	22	A Right.
23	Q your supposition is that am I	23	Q But you indicated earlier that those
24	understanding that correctly?	24	vaccines don't cause lupus. Your testimony, you're
25	A Yes.	25	saying that you said no because you weren't aware of
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	Page 238	Page 239	)
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	a mechanism by which it could cause it; is that	$^2$ A Yes.	
3	right?	$^{3}$ Q And they have thousands of people	
4	A Yes. That's correct.	<sup>4</sup> typically in them, correct?	
5	Q Okay. But the science really isn't	$^{5}$ A Yes.	
6	available to make a determination on causation yet,	<sup>6</sup> Q Okay.	
7	right?	<sup>7</sup> A And, therefore, they can study common	
8	A The science doesn't show that there is a	<sup>8</sup> conditions. But uncommon conditions are very	
9	relationship. And it is, unfortunately, to prove a	<sup>9</sup> difficult to study because they're uncommon; and,	
10	negative requires a lot more data than to prove a	<sup>10</sup> therefore, one would need a very, very large study	
11	positive.	<sup>11</sup> and one would have to have randomization, which is	,
12	Q If there was a I mean, if there was a	<sup>12</sup> of course, inherently difficult.	
13	study that was, had a placebo and a control group,	<sup>13</sup> Q If you actually had a placebo-controlled	
14	then we could know whether or not these conditions	<sup>14</sup> study, an inert, placebo-controlled study of seven,	
15	are caused by these vaccines, correct?	<sup>15</sup> eight thousand people, you could at least determine	
16	A Yes. It would have to be an enormous	<sup>16</sup> that a population of that size, whether or not	
17	study and would have to be randomized ideally, which	<sup>17</sup> there's detectable adverse event rate for any of	
18	is unlikely to be the case since	<sup>18</sup> these conditions, correct?	
19	Q It needs to be enormous because you're	<sup>19</sup> A For some of those conditions, yes.	
20	assuming these conditions are rare, correct?	<sup>20</sup> Q All right. I'm going to show you, I'd	
21	A Correct.	<sup>21</sup> like to show you an excerpt from that report. Okay?	
22	Q Okay. And, and this study that you're	<sup>22</sup> Before I do that, actually, a few	
23	saying needs to be done before vaccines are	<sup>23</sup> quick, little questions. Tdap is one of the	
24	licensed, they do do clinical trials, we've seen,	<sup>24</sup> vaccines on the childhood schedule, right?	
25	right?	<sup>25</sup> A Yes.	
	Page 240	Page 241	_
	Page 240	10000	-
1			-
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	_
	Stanley Plotkin, M.D. Q It's administered to babies during the	<sup>1</sup> Stanley Plotkin, M.D.	_
2	Stanley Plotkin, M.D.	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q What was the IOM's conclusion in 2011</li> </ol>	-
2 3	Stanley Plotkin, M.D. Q It's administered to babies during the first year of life?	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q What was the IOM's conclusion in 2011 about whether these vaccines can cause autism?</li> </ol>	-
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2 3 4 5 6	Stanley Plotkin, M.D. Q It's administered to babies during the first year of life? A Yes. Q We already talked about this at two, four, and six months, right? A Yes. Q Okay. Did I say Tdap or DTaP?	<ul> <li>Stanley Plotkin, M.D.</li> <li>Q What was the IOM's conclusion in 2011</li> <li>about whether these vaccines can cause autism?</li> <li>A I'd have to look that up, but I feel</li> <li>confident that they do not cause autism.</li> <li>Q You feel confident that that's what the</li> <li>IOM concluded?</li> <li>A I don't remember what the IOM concluded</li> </ul>	1.
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	A Yes.	<sup>2</sup> toxoid-, tetanus toxoid-, or the acellular	
3	Q And this is where the IOM discusses the	<sup>3</sup> pertussis-containing vaccine in autism.	
4	evidence with regard to whether DTaP or Tdap cause	<sup>4</sup> Q So the IOM reviewed the available evidenc	e
5	autism, correct?	<sup>5</sup> with regard to whether Tdap or DTaP can cause	
6	A Correct.	<sup>6</sup> autism, and their conclusion was the evidence	
7	Q Okay. If you the turn to the second page,	<ul> <li><sup>7</sup> doesn't exist to show whether DTaP or Tdap do or</li> </ul>	do
8	can you read the causality conclusion with regard to	<sup>8</sup> not cause autism, correct?	uo
9	whether DTaP and Tdap cause autism?	<sup>9</sup> A Yes. But the point is that there were no	
10	A The committee did not identify literature	<sup>10</sup> studies showing that it does cause autism except or	ne
11	reporting clinical, diagnostic or experimental	<ul> <li>studies showing that it uses cause addish encept of study by two well-known anti-vaccination figures,</li> </ul>	
12	evidence of autism after the administration of	<sup>12</sup> Geier and Geier, who have no legitimacy whatsoev	
13	vaccines containing diphtheria toxoid, tetanus	<sup>13</sup> So what they're saying is that	. 61.
14	toxoid, and acellular pertussis antigens.	<sup>14</sup> there's no evidence. And the important point from	
15	Q Dr. Plotkin, I'm sorry. Can you please	<sup>15</sup> my point of view is that there's no positive	
16	read Dr. Plotkin, can you please read the	<sup>16</sup> evidence to do a proper study, as we've been	
17	causality conclusion with regard to the one	<sup>17</sup> discussing, which would disapprove it, would invo	lve
18	second, Dr. Plotkin. I'm sorry. The court reporter	<sup>18</sup> the controlled administration of vaccines and	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
19	has to be able to take down the full question or	<sup>19</sup> withholding vaccines from children who should ha	ive
20	there won't be a clear record.	<sup>20</sup> them.	
21	Can you please read the causality	$^{21}$ Q Dr. Plotkin, is there, was the IOM able to	
22	conclusion in the IOM report with regard to whether	<ul> <li>identify a single study that supported your claim</li> </ul>	
23	DTaP and Tdap can cause autism.	<ul> <li><sup>23</sup> strike that.</li> </ul>	
24	A The evidence is inadequate to accept or	<sup>24</sup> If you take a look at that section,	
25	reject a causal relationship between diphtheria	<sup>25</sup> please, was the IOM able to identify a single study	,
	5 1 1		
	Page 244	Page 24	45
1			
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	Stanley Plotkin, M.D. supporting that DTaP or Tdap do not cause autism?	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q But it does allow you to conclude that the</li> </ol>	
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	determine whether or not a vaccine does or does not	<sup>2</sup> least I don't, that autism is caused by DTaP.
3	cause, does not cause autism, correct?	<sup>3</sup> Q Well, you may not have that suspicion, but
4	A They are possible, yes.	<sup>4</sup> it is one of the most commonly reported conditions,
5	Q Okay. But the study to determine whether	<sup>5</sup> adverse events, which is why it was reviewed in this
6	DTaP or Tdap does not cause autism has not been	<sup>6</sup> IOM report from DTaP/Tdap, which we discussed
7	done, right?	<sup>7</sup> earlier.
8	A A study that would definitively show that	<sup>8</sup> So I just, I'm not saying, I'm not
9	it doesn't has not been done, but there's no	<sup>9</sup> asking you to say that vaccines do cause autism.
10	evidence that it does.	<sup>10</sup> I'm not asking that at all.
11	Q But since, Dr. Plotkin, we don't know	<sup>11</sup> I'm asking you, as a scientist, can
12	whether DTaP or Tdap cause autism, right, it would	<sup>12</sup> you make the statement that vaccines do not cause
13	be a bit premature to make the unequivocal, sweeping	<sup>13</sup> autism if you don't know whether DTaP or Tdap cause
14	statement that vaccines do not cause autism,	<sup>14</sup> autism?
15	correct?	<sup>15</sup> A As a scientist, I would say that I do not
16	A In the absence of evidence, one should not	<sup>16</sup> have evidence one way or the other.
17	draw any conclusions except that there's no	<sup>17</sup> Q Right.
18	evidence. And so I don't infer from the absence of	<sup>18</sup> A As a practicing physician, I have to weigh
19	evidence about a million different things that	<sup>19</sup> all kinds of things in making a decision about a
20	they're necessarily true.	<sup>20</sup> patient, whether to do something or not to do
21	One has to do studies to determine	<sup>21</sup> something. And I make that, those decisions based
22	whether or not a phenomenon exists, and usually	<sup>22</sup> on the body of knowledge, even in the absence of
23	those studies are done because there's some	<sup>23</sup> definitive information for every case. This has
24	suspicion that, of a relationship.	<sup>24</sup> been true for medicine ever since its inception.
25	But in, we have no suspicions, at	<sup>25</sup> Q I'm asking you a simple question. I'm
	Page 248	Page 249
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. asking you, since the science has not yet been done	<sup>2</sup> A I would say it is logically true that you
2 3	Stanley Plotkin, M.D. asking you, since the science has not yet been done regarding whether DTaP or Tdap cause autism, isn't	<ul> <li>A I would say it is logically true that you</li> <li>cannot say, you cannot point to proof that it</li> </ul>
2 3 4	Stanley Plotkin, M.D. asking you, since the science has not yet been done regarding whether DTaP or Tdap cause autism, isn't it true that you cannot make the sweeping statement	<ul> <li>A I would say it is logically true that you</li> <li>cannot say, you cannot point to proof that it</li> <li>doesn't cause autism. But as physicians and public</li> </ul>
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	Page 250		Page 251
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	BY MR. SIRI:	2	A I'm not aware of any such complaints, but
3	Q The IOM reviewed the science. They didn't	3	I wouldn't be surprised to see it on the web one of
4	find a single study that supported whether or not	4	these days.
5	vaccines	5	Q Okay. But people have made enough
6	(Discussion off the stenographic record.)	6	complaints about DTaP, Tdap causing autism that the
7	MS. NIEUSMA: At this point, Dr. Plotkin,	7	Institute of Medicine at the commission of HHS
8	just wait for him to move on to the next	8	thought it was serious enough to do a scientific
9	question.	9	review, correct?
10	MR. SIRI: I'm not asking the same	10	A Yes.
11	question, Counsel. Your objection is noted.	11	Q Okay. They didn't review whether DTaP
12	I'm responding to his comments, which are	12	causes leprosy, did they?
13	different every time.	13	A No.
14	BY MR. SIRI:	14	Q Okay. So, and after conducting that
15	Q So what you're saying is a physician or	15	review, they found that there was no evidence at all
16	logician, then, you couldn't say vaccines do not	16	that they could find whether DTaP or Tdap caused
17	you could not say vaccines do not cause autism.	17	autism. I'm just asking you a simple question,
18	But as a pediatrician, you're saying	18	which is since there's no evidence whether DTaP or
19	that you would say that to a parent because you want	19	Tdap cause autism, isn't it a little premature to
20	to make sure they get the vaccine; is that right?	20	say, to make the sweeping statement that vaccines do
21	A You know, I can't be sure that DTaP	21	not cause autism?
22	doesn't cause leprosy. That doesn't mean that stops	22	A No, I do not agree with that. Because
23	me from using DTaP vaccine.	23	absence of evidence works both ways. There's no
24	Q Are people claiming that DTaP has caused	24	evidence that they do, and the ideal study has not
25	leprosy? Are you aware of any such complaints?	25	been done. I agree with that. But in the absence
	Page 252		Page 253
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	of any reasonable evidence that they do, I continue	2	assert that vaccines do not cause autism, that they
3	to recommend their use.	3	
4		-	do
4	Q So you're willing to make a statement that	4	
4 5	Q So you're willing to make a statement that a vaccine does not cause a condition even in the		A Counselor, let's be, let's be real.
		4	
5	a vaccine does not cause a condition even in the	4 5	A Counselor, let's be, let's be real. You're asking me these questions because you want me
5 6	a vaccine does not cause a condition even in the absence of any evidence?	4 5 6	A Counselor, let's be, let's be real. You're asking me these questions because you want me to legitimize the view that vaccines cause autism,
5 6 7	<ul><li>a vaccine does not cause a condition even in the absence of any evidence?</li><li>A I'm willing to state that there is no</li></ul>	4 5 6 7	A Counselor, let's be, let's be real. You're asking me these questions because you want me to legitimize the view that vaccines cause autism, and I will not do that because absence of evidence
5 6 7 8	<ul><li>a vaccine does not cause a condition even in the absence of any evidence?</li><li>A I'm willing to state that there is no evidence that the vaccine causes the condition and,</li></ul>	4 5 6 7 8	A Counselor, let's be, let's be real. You're asking me these questions because you want me to legitimize the view that vaccines cause autism, and I will not do that because absence of evidence is no proof whatsoever.
5 6 7 8 9	<ul><li>a vaccine does not cause a condition even in the absence of any evidence?</li><li>A I'm willing to state that there is no evidence that the vaccine causes the condition and, therefore and there is a lot of evidence that</li></ul>	4 5 7 8 9	<ul><li>A Counselor, let's be, let's be real.</li><li>You're asking me these questions because you want me to legitimize the view that vaccines cause autism, and I will not do that because absence of evidence is no proof whatsoever.</li><li>Q I think that record is very clear,</li></ul>
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	Page 254		Page 255
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q period.	2	determine whether or not DTaP/Tdap cause autism?
3	They found one study which they said	3	A I agree with their conclusion, but that
4	was unreliable because it relied on VAERS data and	4	doesn't mean that I don't act on other information.
5	it had no control, right?	5	Q Okay. Okay. I can understand that. I
6	A Right.	6	can understand that. But you make I'm not, I'm
7	Q Okay. But similarly, in the same vein,	7	not saying that I'm not asking you to ignore any
8	they also didn't find any evidence that DTaP/Tdap do	8	benefits you believe accrued from vaccines. Okay?
9	not cause autism. Now, that doesn't mean that	9	I'm not asking you to do that at all, Dr. Plotkin.
10	DTaP/Tdap do cause autism, correct?	10	I'm simply asking you as a pure
11	A Correct.	11	matter of logic. As a pure matter of logic and
12	Q It doesn't mean that, right?	12	common sense, if you don't know whether A causes
13	A Yes.	13	something, can you say A, B let me not use that
14	Q That's right. All it means is that they	14	hypothetical.
15	couldn't find a study that showed, that supported	15	If you don't know whether DTaP or
16	that it does not cause autism, right?	16	Tdap cause autism, shouldn't you wait until you do
17	A Yes.	17	know, until you have the science to support it to
18	Q Until and that's why they reached the	18	then say that vaccines do not cause autism?
19	conclusion that they did, which is they said the	19	A Do I wait? No, I do not wait because I
20	data is insufficient, right?	20	have to take into account the health of the child.
21	A Mm-hmm.	21	Q And so for that reason, you're okay with
22	Q I assume you was that a yes?	22	telling the parent that DTaP/Tdap does not cause
23	A Yes.	23	autism even though the science isn't there yet to
24	Q Do you agree with the IOM's conclusion	24	support that claim?
25	that the data, the evidence is insufficient to	25	A Absolutely.
			,
	Page 256		Page 257
1		1	
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. Q Okay.	2	Stanley Plotkin, M.D. But in answer to your question, there
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	vaccinated and unvaccinated children to conduct such	2	children were comparable in other ways besides being
3	a comparison, correct?	3	vaccinated or unvaccinated.
4	A Well, I don't know, because the percentage	4	Q Every time you do a retrospective study,
5	of unvaccinated children fortunately is quite low.	5	you always need to control for potential cofounders
6	So I'm not sure how easy it would be to do that	6	[sic], correct?
7	study. And I would suspect that many of those	7	A Yes.
8	unvaccinated children are not in registers that	8	Q That's what you're talking about,
9	could be used.	9	controlling for cofounders, right?
10	Q You're familiar with the Vaccine Safety	10	A Yes.
11	Datalink?	11	Q And, you know, if you're doing a case
12	A Yes.	12	control, properly matching cases, or if you're
13	Q Are you aware that there are a few	13	right? Are you saying that so CDC, pharma, they
14	thousand children that are, my are you aware that	14	conduct studies all the time, right?
15	there are reports from the government, government	15	A Mm-hmm.
16	reports that show that there are a few thousand	16	Q Including studies
17	children that are, my understanding, completely	17	A Yes.
18	unvaccinated in the VSD?	18	Q Yes. Including studies that have
19	A Oh, I don't doubt it.	19	cofounders that need to be controlled for, right?
20	Q Okay. Couldn't the Vaccine Safety	20	A Yes, they try, yes.
21	Datalink be used to conduct a retrospective	21	Q Vaccine studies, especially for efficacy,
22	"vaccinated versus unvaccinated" study to look for	22	happen all the time, correct?
23	health outcomes?	23	A Yes.
24	A Well, I don't know. Theoretically,	24	Q So, again, if the data is there, why not
25	perhaps, but one would have to be convinced that the	25	do a study comparing vaccinated to completely
	Dere 260		Page 261
-	Page 260		Page 261
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	unvaccinated children to look for the total health	2	do. But I will repeat what I
3	outcome so you know what the real risks are or get	3	said earlier about measles
4	at least a sense of what the real risks are from	4	vaccination. I would just
5	vaccinations?	5	remind you again that among
6 7	A Well, I can't completely answer that	7	those children who were not
	question. I'm sure it would be a difficult study to		"Q. You've already said all
8 9	do. But I will repeat what I said earlier about	8	this, Dr. Plotkin. I got it.
10	measles vaccination. I would just remind you again	10	"A. Well, I'll repeat it.
11	that among those children who were not	11	Three deaths and 24 cases of
12	Q You've already said all this, Dr. Plotkin.	12	encephalitis. That's
13	It's fine. I got it.	13	unbearable.") BY MR. SIRI:
14	A I'll repeat it. There were three deaths and 24 cases of encephalitis. And that's	14	
15	unbearable.	15	Q Dr. Plotkin, who prepared the notes that are in front of you?
16		16	A Me.
17	Q I'm sorry. MR. SIRI: Can you read back what	17	Q Okay. When did you prepare those?
18	Dr. Plotkin just said.	18	A Oh, about a week ago, I guess.
19		19	Q During the break, our lunch break, did you
20	(Whereupon, the Reporter read	20	talk with anybody?
21	back a preceding portion of the	21	A No well, yes. I talked with my wife.
22	testimony as directed:	22	Q Anybody else?
23	"A. Well, I can't completely	23	A No.
24	answer that question. I'm sure	24	Q Okay. So I understand that you find
25	it would be a difficult study to	25	injuries that can result from what you've called, I

	Page 262		Page 263
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	believe, vaccine-preventable diseases. What I'm	2	right?
3	trying to do is understand the risks of vaccinating	3	A I think it's about right. I'm not an
4	and, in particular, for Faith.	4	accountant I don't make
5	And can you appreciate that,	5	Q Give or take a few, give or take a billion
б	understand strike that.	6	or two, would you say?
7	So you just think it's too difficult	7	A I think so, yes.
8	to look at, to do a study comparing vaccinated and	8	Q Okay. So the pharmaceutical industry has
9	unvaccinated children, even though the data exists	9	\$20 billion in revenue, and the CDC spends hundreds
10	to do that; is that right?	10	of millions of dollars buying vaccines every year;
11	A Well, I simply am saying that I don't know	11	is that right?
12	how feasible it is. I've never been asked to look	12	A I think so.
13	at it before, but I do think a priori that it would	13	Q But yet you don't think that the resources
14	be difficult because those children are very likely	14	can be done to do a single solitary study comparing
15	from different socioeconomic groups and different	15	the health outcomes of a for-profit product given to
16	racial groups.	16	almost every child in this country to assess what
17	And so it would be a different study	17	the rate of adverse reactions are between those who
18	to do. I don't know if it's feasible or not.	18	get all those products and those who don't?
19	Q So with all of the government so the	19	A What I said is I simply don't know whether
20	pharmaceutical industry, you said, made	20	such a study is feasible or not, but I think it
21	approximately \$20 billion last year in revenue from	21	would be difficult to do because it would not be a
22	vaccine sales?	22	randomized study; and, therefore, the conclusions
23	A I think so. I don't have	23	might be, might be questionable. But I don't know
24	Q I have the financial statements. Should	24	whether such a study is feasible or not.
25	we review them, or do you think 20 billion is about	25	Q Aren't most studies that are done that you
	Page 264		Page 265
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	rely upon in that book that you have in front of you	2	Q Okay. Please take a look at the exhibit I
3	not randomized?	3	just the exhibit I just handed you is the 2015
4	A Many of them are not. Many of them are.	4	ICD-9-CM Professional Edition for Physicians
5	Q Do you throw out the ones that are not	5	codebook, correct?
6	randomized?	6	A Yes.
7	A It depends on what the purpose of the	7	Q Or at least the front page and one
8	study is. If it's studying immune responses, it	8	excerpt, correct?
9	doesn't necessarily have to have a control group.	9	A Mm-hmm. Yes.
10	(Exhibit Plaintiff-23 was	10	Q So if you go to the second page, do you
11	marked for identification.)	11 12	see there's a code, V6.407?
12 13	BY MR. SIRI:	13	A Yes.
14	Q Dr. Plotkin, I'm going to hand you what's	14	Q What is that code for?
15	being marked as Exhibit, Plaintiff's Exhibit 23. Dr. Plotkin, what is an ICD-9 code?	15	A Vaccination not carried out for religious
16	A Well, it's essentially a way of coding	16	reasons. $\Omega$ Okay So wouldn't it he feasible for
17	diseases for, usually for remuneration purposes.	17	Q Okay. So wouldn't it be feasible, for example, to compare children who have this coding
18	Q Okay. So when a doctor administers a drug	18	who are not being vaccinated with those who are
19	or a diagnosis as a patient or something similar,	19	being vaccinated who are in similar communities,
20	there's a code that they would enter into the	20	have similar demographics, and otherwise avoid as
21	system, right?	21	much as possible other potential cofounders.
22	A Yes.	22	A Well, if you could eliminate the
23	Q And the ICD-9 codes are published by the	23	cofounders it would be feasible.
24	American Medical Association, correct?	24	Q What are the cofounders, Dr. Plotkin?
25	A Yes.	25	A Well, as I said before, the cofounders

	Page 266	Page 267
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	include socioeconomic level, racial grouping,	<sup>2</sup> A I am unable to draw a conclusion about
3	exposure to agents. In other words, are they living	<sup>3</sup> whether such a study is feasible. What I'm pointing
4	in a community where it's unlikely that someone	<sup>4</sup> out is that the likelihood of there being multiple
5	unvaccinated from Ethiopia is going come into the	<sup>5</sup> cofounders is confounders, sorry, is very high;
6	community and be able to transmit diseases?	<sup>6</sup> and, therefore, it wouldn't be an easy study to do.
7	I mean, I'd have to sit down and	<sup>7</sup> That's all I can say. I've never sat down to try to
8	write up a list of possible cofounders. But there	<sup>8</sup> figure out how to do such a study.
9	would be many of them.	<sup>9</sup> Q Well, we've got socioeconomic, which
10	Q So when you do studies for efficacy, are	<sup>10</sup> probably pretty easy to control for; racial
11	you able to control for all of these cofounders?	<sup>11</sup> grouping, pretty easy to control for; exposure to
12	A Well, usually the effort is to include as	<sup>12</sup> agents, since it's retrospective, you'll know if
13	many different types of individuals as possible so	<sup>13</sup> there's been an outbreak in the community.
14	that if there is a problem with a particular group,	<sup>14</sup> What other cofounders do you think
15	you can identify it.	<sup>15</sup> might exist? I mean, I'd like to hear one that
16	But doing clinical studies is not	<sup>16</sup> can you tell me a cofounder that's not easy to
17	always easy, and that's why the conclusions from	<sup>17</sup> control for?
18	clinical studies have to be seen in relation to	<sup>18</sup> A In principle, one can control for any
19	other clinical studies.	<sup>19</sup> confounding problem. The issue would be just how
20	Q Why is it you can control for cofounders	<sup>20</sup> many there are and just how large a group you would
21	in various other vaccine studies, including in	<sup>21</sup> need for a statistical significance. See, that's
22	vaccine safety studies that are cited in your book,	<sup>22</sup> another issue.
23	but you believe are you saying you couldn't	<sup>23</sup> I mean, we accept as a valid
24	control for these same cofounders in the study of	<sup>24</sup> conclusion something that is false five times out of
25	vaccinated versus unvaccinated population?	<sup>25</sup> a hundred. And so not only do we have to try to
	Page 268	Page 269
1	Page 268 Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. eliminate confounders, but we also need repetition	<ol> <li>Stanley Plotkin, M.D.</li> <li>A Oh, I forget the exact year, but it's been</li> </ol>
2 3	Stanley Plotkin, M.D. eliminate confounders, but we also need repetition of studies to be sure that the results we got in the	<ol> <li>Stanley Plotkin, M.D.</li> <li>A Oh, I forget the exact year, but it's been probably 20, 25 years.</li> </ol>
2 3 4	Stanley Plotkin, M.D. eliminate confounders, but we also need repetition of studies to be sure that the results we got in the first study were not in the five studies that were	<ol> <li>Stanley Plotkin, M.D.</li> <li>A Oh, I forget the exact year, but it's been probably 20, 25 years.</li> <li>Q 1979 sound correct to you?</li> </ol>
2 3 4 5	Stanley Plotkin, M.D. eliminate confounders, but we also need repetition of studies to be sure that the results we got in the	<ol> <li>Stanley Plotkin, M.D.</li> <li>A Oh, I forget the exact year, but it's been probably 20, 25 years.</li> <li>Q 1979 sound correct to you?</li> <li>A Yeah, could be.</li> </ol>
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	Page 270		Page 271
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	the CDC, correct?	2	potential cofounders. And I'm just trying to
3	A Mm-hmm.	3	understand what those are.
4	Q Since we know where the outbreaks are for	4	So you've said familial history.
5	those diseases, that could be was that a yes?	5	Presumably the parents would be in the same health
6	A Yes.	6	plan as the children. So you have the parents'
7	Q Since we know where those outbreaks are,	7	medical history, too, correct?
8	that could be actually probably pretty easily	8	A Mm-hmm.
9	controlled for as well, correct?	9	Q So that could be controlled for as well,
10	A In principle, yes.	10	right?
11	Q Okay. So can you name me a cofounder that	11	A Yes.
12	would be difficult to control for in the study?	12	Q You said "mm-hmm" two questions ago
13	A Well, at the moment I can't think of any	13	A Yes.
14	other that would be material, although I think one	14	Q that was a yes?
15	would have to look at genetic issues and the health	15	Okay. So that could be easily
16	of other members in the family and so forth.	16	controlled for, correct?
17	But, again	17	A Yes.
18	Q Okay.	18	Q Okay. And so can you tell me again, can
19	A I am not saying that such a study is	19	you tell me a cofounder that would actually be
20	impossible. I'm just pointing out that it would be	20	difficult to control for in this study?
21	a very difficult study to do, and the conclusions	21	A Well, other than the ones that I've
22	that you could draw from the study might be very	22	mentioned and not having thought about doing such a
23	limited.	23	study, that's all I can say.
24	Q Well, you keep saying it's difficult. But	24	Q If you did such a study, isn't it are
25	I, and your reason for that, I understand, is	25	you aware that advocacy groups and other people
	Page 272		Page 273
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	interested in this issue have been calling for this	2	Q Would you be surprised to know that the
3	exact study of comparing vaccinated and unvaccinated	3	CDC, in fact, issued a report in response to the
4	for 30 years already?	4	request for the calls for such a study?
5	A I don't spend a lot of time on the web, so	5	A I wouldn't be surprised that there's a
б	I can't say that I know that such a study is being	6	response, no.
7	requested.	7	Q Okay. So in looking for such a study,
8	Q Okay. Well, but you do read IOM reports	8	isn't it true that there actually has been one such
9	and CDC reports?	9	study conducted in the past, for the first time ever
10	A Yes.	10	in the last year, correct?
11	Q Okay. And you never come across any IOM	11	A I am not aware of that study.
12	or CDC reports in which they specifically address	12	(Exhibit Plaintiff-24 was
13	the repeated calls for such a study?	13	marked for identification.)
14	A No.	14	BY MR. SIRI:
15	Q Okay. Would it be surprising to you if I	15	Q Okay. I'm going hand you what's been
16	told you those existed?	16	marked as Plaintiff's Exhibit 24. The title of the
17	A That what existed?	17	study is a "Pilot Comparative Study of the Health of
18	Q That CDC and IOM reports in which they	18	Vaccinated and Unvaccinated 6- to 12-Year-Old United
19	document the calls for such a study.	19	States Children," correct?
20	A Well, I wouldn't be surprised, no.	20	A Yes.
21	Q Would you be surprised to know that the	21	Q And the authors of this study are
22	CDC, in fact, issued an entire report regarding	22	Professors at the Department of Epidemiology and
23	conducting such a study and the calls for conducting	23	Biostatistics, School of Public Health, Jackson
24	such a study?	24	State University, correct?
25	A And they issue the what did you say?	25	MS. NIEUSMA: Just a minute.

	Page 274		Page 275
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	THE WITNESS: That's what it says.	2	A No, it's not, it's not that. It's that
3	MS. NIEUSMA: Just a minute.	3	there are journals now that will publish anything
4	(Inaudible.)	4	for money.
5	MR. SIRI: Absolutely.	5	Q Oh.
6	I'm sorry. Let's just wait for counsel to	6	A And I get about ten of those invitations a
7	get a copy.	7	day.
8	MS. RUBY: Sorry about that.	8	Q So does money influence judgment?
9	MR. SIRI: I thought it had gone. Okay.	9	A It may.
10	So	10	Q Conduct?
11	MS. RUBY: Ms. Nieusma, do you have it?	11	A It may.
12	MS. NIEUSMA: I should in just a yep.	12	Q Okay.
13	MS. RUBY: Thank you. Sorry about that.	13	A I cannot tell until I read this study.
14	BY MR. SIRI:	14	Q I understand. So, well, in this study, if
15	Q Are you familiar with this pilot study,	15	you look, if you take a quick look at it, you'll see
16	Dr. Plotkin?	16	that it involves looking at total health outcomes
17	A No. I see it's been published in the	17	between vaccinated and unvaccinated homeschooled
18	Journal of Translational Science, which is not one	18	children?
19	of the journals I read and is probably one of those	19	A Yes.
20	multiple so-called predatory journals that we are	20	Q When you're ready, please turn to page 5.
21	trying to deal with currently.	21	Do you see the row that says:
22	$\mathbf{Q}$ So is anybody in any university that	22	Chicken pox?
23	publishes anything that's negative about vaccines	23	A Yes.
24	predatory or I forgot the other adjectives you	24	Q Okay. So the odds ratio for the
25	used earlier today.	25	unvaccinated were twice as likely no. I'm
	Page 276		Page 277
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	sorry four times as likely to get chicken pox,	2	children were 3.9 times likely to have allergies?
3	right?	3	A Yes.
4	A Yes.	4	Q 4.2 times as likely to have ADHD?
5	Q .26, so odds ratio of about four. The	5	A Yes.
6	kids who were unvaccinated were about four times	6	Q 4.2 times likely to have autism spectrum
7	more likely to get chicken pox?	7	disorder?
8	A Mm-hmm.	8	A Yes.
9	Q Okay. Is that a yes?	9	Q 2.9 times as likely to have eczema?
10 11	A Yes.	10 11	A Yes.
	Q And do you see for whooping cough, the		Q 5.2 times as likely to have learning
12 13	unvaccinated children were three times as likely to	12 13	disability?
14	get whooping cough?	14	A Yes.
15	A Yes.	15	Q 3.7 times as likely to have
16	Q Go down to where it says: Allergic rhinitis.	16	neurodevelopment disorder?
17		17	A Yes.
18	A Yes. Q What is that?	18	Q And 2.4 times as likely to have any chronic condition?
19		10	
		19	
	A Well, it's essentially runny nose because	19 20	A Yes.
20	A Well, it's essentially runny nose because of allergy.	20	Q Wouldn't you like to see a larger-scale
20 21	A Well, it's essentially runny nose because of allergy. Q Okay. Do you see that it says that the	20 21	Q Wouldn't you like to see a larger-scale study that refuted these claims?
20 21 22	<ul> <li>A Well, it's essentially runny nose because of allergy.</li> <li>Q Okay. Do you see that it says that the vaccinated children were 30 times as likely to have</li> </ul>	20 21 22	<ul><li>Q Wouldn't you like to see a larger-scale</li><li>study that refuted these claims?</li><li>A It would be ideal, yes. It would</li></ul>
20 21 22 23	A Well, it's essentially runny nose because of allergy. Q Okay. Do you see that it says that the vaccinated children were 30 times as likely to have allergic rhinitis?	20 21 22 23	<ul><li>Q Wouldn't you like to see a larger-scale</li><li>study that refuted these claims?</li><li>A It would be ideal, yes. It would</li><li>certainly be important to repeat the study and to</li></ul>
20 21 22	<ul> <li>A Well, it's essentially runny nose because of allergy.</li> <li>Q Okay. Do you see that it says that the vaccinated children were 30 times as likely to have</li> </ul>	20 21 22	<ul><li>Q Wouldn't you like to see a larger-scale</li><li>study that refuted these claims?</li><li>A It would be ideal, yes. It would</li></ul>

	Page 278		Page 279
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	enrolled the children or the parents in this study.	2	A Yes.
3	Q Doesn't the existence of this study,	3	Q I'll give you a moment to read the
4	though, I mean strike that.	4	abstract.
5	So it at least calls for further	5	Have you ever seen this study before?
6	similar studies, hopefully, to either confirm or	6	A No.
7	disapprove the findings in the study, correct?	7	Q Okay. So just take a moment, please, and
8	A Yes. Mm-hmm. Yes, I would agree.	8	read the abstract.
9	Q I'm going to show you one more study that	9	A Mm-hmm. Yes.
10	was done with the same data from this author.	10	Q So in the middle of the abstract, I'm
11	(Exhibit Plaintiff-25 was	11	going to read two sentences. And you can tell me if
12	marked for identification.)	12	I've read them correctly.
13	BY MR. SIRI:	13	No association was found between
14	Q Dr. Plotkin, I'm going to hand you what's	14	preterm birth and NDD in the absence of
15	been marked as Plaintiff's Exhibit 25. This is	15	vaccination strike that.
16	another study by the, this is another publication	16	Actually, Dr. Plotkin, one, two,
17	using the same data, I believe, from the same group	17	three, four, five, six, seven lines down in the
18	of professors at the Department of Epidemiology and	18	abstract, do you see where it starts: No
19	Biostatistics School of Public Health, Jackson State	19	association?
20	University, correct?	20	A Yes.
21	A Appears that way, yes.	21	Q Can you start, can you read that sentence
22	Q And the title of this one is "Preterm	22	and the next one?
23	Birth Vaccination and Neurodevelopmental Disorders:	23	A No association was found between preterm
24	A Cross-Sectional Study of 6- to 12-Year-Old	24	birth and NDD in the absence of vaccination, but
25	Vaccinated and Unvaccinated Children," correct?	25	vaccination was significantly associated with NDD in
		1	
	Page 280		Page 281
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. children born at term. Odds ratio, 2.7.	2	Stanley Plotkin, M.D. pilot studies, correct? Because nobody else is
2 3	Stanley Plotkin, M.D. children born at term. Odds ratio, 2.7. Is that sufficient?	2 3	Stanley Plotkin, M.D. pilot studies, correct? Because nobody else is doing them, so he tried with limited resources, not
2 3 4	Stanley Plotkin, M.D. children born at term. Odds ratio, 2.7.	2 3 4	Stanley Plotkin, M.D. pilot studies, correct? Because nobody else is doing them, so he tried with limited resources, not the resources of pharmaceutical companies and the
2 3 4 5	Stanley Plotkin, M.D. children born at term. Odds ratio, 2.7. Is that sufficient? Q And the next sentence, please, sir. Thank you.	2 3 4 5	Stanley Plotkin, M.D. pilot studies, correct? Because nobody else is doing them, so he tried with limited resources, not the resources of pharmaceutical companies and the CDC, to conduct such a study, right?
2 3 4 5 6	Stanley Plotkin, M.D. children born at term. Odds ratio, 2.7. Is that sufficient? Q And the next sentence, please, sir. Thank you. A However, vaccination coupled with preterm	2 3 4 5 6	Stanley Plotkin, M.D. pilot studies, correct? Because nobody else is doing them, so he tried with limited resources, not the resources of pharmaceutical companies and the CDC, to conduct such a study, right? A Well, that's your interpretation. I would
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	Page 282	Page 283	
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	A Yes.	<sup>2</sup> when their birthday happened to be; isn't that	
3	(Exhibit Plaintiff-26 was	<sup>3</sup> correct?	
4	marked for identification.)	<sup>4</sup> A Yes. It says they were allocated by	
5	BY MR. SIRI:	<sup>5</sup> birthday. I have to see.	
6	Q I'm going hand you what's been marked,	<sup>6</sup> Well, you know, it's not absolutely	
7	what is being marked as Plaintiff's Exhibit 24	<sup>7</sup> clear as to how the randomization was done.	
8	26.	<sup>8</sup> Apparently there were periods of time when they were	
9	Thank you. Sorry.	<sup>9</sup> vaccinating and other periods when they were not	
10	This is the Peter Aaby study that you	<sup>10</sup> vaccinating.	
11	and I were talking about earlier, correct?	<sup>11</sup> Q I think that if you have you read this	
12	A This is one of them.	<sup>12</sup> study before, Dr. Plotkin?	
13	Q This is the study in which Peter Aaby	<sup>13</sup> A I've glanced at it, yes. I haven't read	
14	found that children who receive DPT in the first six	<sup>14</sup> it thoroughly. But the, as I said before, the, this	
15	months of life versus those who got no vaccines died	<sup>15</sup> kind of study is useful. There's no doubt about	
16	at ten times the rate, correct?	<sup>16</sup> that. But one needs to have some sort of	
17	A Right.	<sup>17</sup> immunological correlate to really confirm that that,	
18	Q And in this study, you earlier said that	<sup>18</sup> that the findings are real.	
19	your concerns with Aaby's prior studies that had	<sup>19</sup> The other point is that Peter is	
20	similar conclusions was that they weren't	<sup>20</sup> working in an African community where there is a	
21	randomized; but in this study it was randomized,	<sup>21</sup> high mortality to begin with. And that's, of	
22	correct? Because it was strike that.	<sup>22</sup> course, because of other factors.	
23	In this study, in this study the	And so whether this would be true in,	
24	vaccinated versus unvaccinated children were simply	<sup>24</sup> let's say, Denmark or elsewhere is not clear. And	
25	vaccinated or unvaccinated purely by the chance of	<sup>25</sup> if my memory serves, attempts to show in Denmark	
	Page 284	Page 285	
	5		
1			
1 2	Stanley Plotkin, M.D. what Peter has found in Africa have not been	<sup>1</sup> Stanley Plotkin, M.D.	
	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	Stanley Plotkin, M.D. what Peter has found in Africa have not been	<ol> <li>Stanley Plotkin, M.D.</li> <li>Aaby's work. It's not that I discard it or think</li> </ol>	
2 3	Stanley Plotkin, M.D. what Peter has found in Africa have not been positive.	<ol> <li>Stanley Plotkin, M.D.</li> <li>Aaby's work. It's not that I discard it or think</li> <li>that his conclusions are wrong. What I'm saying is</li> </ol>	
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	Page 286		Page 287
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	have to look further to make sure that the	2	A Mainly since the 1990s.
3	populations that were studied were absolutely equal	3	Q Okay. Mainly since the 1990s.
4	in other respects.	4	A So about 20 years.
5	Q Okay.	5	Q And Peter Aaby has been claiming, making
б	A But, again, I'm not one who discards	6	this claim, a respected scientist whose conclusions
7	Peter's studies a priori.	7	you said you take seriously, that DTP might cause
8	Q Earlier you told me the issue was it	8	more deaths than people it saves
9	wasn't randomized, but now	9	A Yeah, I
10	A That is an important issue, yes.	10	Q but let me just finish my question,
11	Q And it is, this one is randomized?	11	please.
12	A Well, again, I just have to be sure that	12	When do you think this extra science
13	it was randomized, that both groups were vaccinated	13	on immunology you think is necessary is going to get
14	or non-vaccinated at the same time rather than	14	done so we know whether or not DTP is saving more
15	sequentially.	15	children than it kills?
16	Q Yes. Because it was done by birthdays.	16	A Well, I would imagine that WHO is looking
17	When people came into the clinics, right, depending	17	into it. I don't know that for a fact. But it also
18	on their birth date, they either got the vaccine or	18	has to be pointed out that the vaccine that he's
19	they didn't, correct?	19	studying is whole-cell vaccine; it is not the
20	Correct?	20	vaccine being used in the United States.
21	A Well, subject to my reading this	21	Q That's right. But it is being used in
22	carefully, I agree that he is claiming that it's	22	most third-world countries, correct?
23	randomized.	23	A In, the vaccines being used in the United
24	Q So DTaP has been used around the world for	24	States are being used in the U.S. and Europe.
25	what, 30, 40 years now, 50 years?	25	Q The DTP
	Page 288		Page 289
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A But the DTP, the whole-cell vaccine is	2	Q Okay.
3	used very largely in Latin America and Africa.	3	(Exhibit Plaintiff-28 was
4	Q In developing countries?	4	marked for identification.)
5	A Yes.	5	BY MR. SIRI:
б	Q Any reason that the life of a child in a	6	Q Handing you what's being marked as
7	developing country is not equal to that in the	7	Plaintiff's Exhibit 28. I'm going to read you an
8	first-world country?	8	excerpt from this, and I'm going to ask you a
9	A No.	9	question. Okay, Dr. Plotkin?
10	Q Okay.	10	A Yes.
11	A But the whole-cell vaccine is considerably	11	Q Okay. It says: Both epidemiologic and
12	cheaper.	12	mechanistic research suggests that most individuals
13	(Exhibit Plaintiff-27 was	13	who experience an adverse reaction to vaccines have
14		14	a pre-existing susceptibility. These
15	marked for identification.)		
	BY MR. SIRI:	15	predispositions can exist for a number of reasons
16	BY MR. SIRI: Q Dr. Plotkin, I'm going to hand you what's	16	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA,
17	BY MR. SIRI: Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This	16 17	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening
17 18	BY MR. SIRI: Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This is an excerpt from the 1994 IOM report, correct?	16 17 18	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening illness, or developmental stage, to name just a
17 18 19	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This is an excerpt from the 1994 IOM report, correct?</li> <li>A Yes.</li> </ul>	16 17 18 19	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening illness, or developmental stage, to name just a few all of which can interact, as suggested
17 18 19 20	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This is an excerpt from the 1994 IOM report, correct?</li> <li>A Yes.</li> <li>Q Under risk-modifying factors, the first</li> </ul>	16 17 18 19 20	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening illness, or developmental stage, to name just a few all of which can interact, as suggested graphically in figure 3-1. Some of these adverse
17 18 19 20 21	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This is an excerpt from the 1994 IOM report, correct?</li> <li>A Yes.</li> <li>Q Under risk-modifying factors, the first sentence there says: The committee was able to</li> </ul>	16 17 18 19 20 21	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening illness, or developmental stage, to name just a few all of which can interact, as suggested graphically in figure 3-1. Some of these adverse reactions are specific to the particular vaccine,
17 18 19 20 21 22	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's being marked as Plaintiff's Exhibit 24 27. This is an excerpt from the 1994 IOM report, correct?</li> <li>A Yes.</li> <li>Q Under risk-modifying factors, the first sentence there says: The committee was able to identify little information pertaining to why some</li> </ul>	16 17 18 19 20 21 22	predispositions can exist for a number of reasons genetic variations in human or microbiome DNA, environmental exposures, behaviors, intervening illness, or developmental stage, to name just a few all of which can interact, as suggested graphically in figure 3-1. Some of these adverse reactions are specific to the particular vaccine, while others may not be. Some of these
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Much work remains to be done to elucidate and	2	Q Who did the studies Vanderbilt?
3	develop strategies to document the immunologic	3	A Well, James Crowe was one of the authors.
4	mechanisms that lead to adverse effects in	4	Q What did the studies involve?
5	individual patients.	5	A The studies involved looking at certain
6	Do you disagree with what the IOM	6	enzymes, particularly to see if there was an
7	wrote here?	7	association with let's see.
8	A Well, not in principle. If such factors	8	It was with I'm trying to remember
9	can be identified. So far it has been very	9	which vaccine it was based on. Smallpox vaccine.
10	difficult to identify so-called predispositions.	10	Q Smallpox. Do people routinely get
11	Q Is it not because, Dr. Plotkin, the	11	smallpox vaccine anymore in America?
12	science is just not being done to make those	12	A No.
13	identified?	13	Q Okay. Other than the researcher at
14	A Some attempts have been made. There's a	14	Vanderbilt and the one at the Mayo Clinic that you
15	-	15	
16	whole literature by Dr. Poland at the Mayo Clinic on	16	mentioned, is there anybody else that you know of
17	such. But the things that he studied have been	17	that is conducting any serious science to identify
18	relatively minor reactions.	18	what might, what would render a child susceptible to
19	Q Are you aware of any serious large-scale	19	a vaccine injury?
	studies that have been done to assess the		A I think the people of British Columbia are
20	predispositions that might result in adverse	20	doing some work.
21	reaction from a vaccine?	21	Q Who is that?
22	A There have been some genetic studies done.	22	A I can't remember the guy's name.
23	Q By whom?	23	Q Is it Chris Shaw?
24	A As I said, by the Mayo group in	24	A Sorry?
25	particular, and also some studies done Vanderbilt.	25	Q Is his name Chris Shaw?
	Page 292		Page 293
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	-		Stanley Tiotkin, Wi.D.
	A Could be It's a whole group of people at	2	particular at aluminum adjuvants in vaccines
3	A Could be. It's a whole group of people at British Columbia	2 3	particular at aluminum adjuvants in vaccines,
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	produce a very weak immune response, hence the need	2	Q Okay. And antigen that is absorbed by
3	to add alum to the vaccine formulation, correct?	3	alum can be taken up by macrophages and dendritic
4	A Frequently, not always.	4	cells?
5	Q And alum, injected alum can increase the	5	A Yes.
6	production of all kinds of cytokines, including	6	Q Macrophages is M-A-C-R-O-P-H-A-G-E-S.
7	IL-1, IL-2, IL-6, IL-17, correct?	7	Macrophages are immune cells,
8	A Yes.	8	correct?
9	Q Alum can be recovered from the injection	9	A Well, they are scavengers, basically.
10	site months or years after intramuscular injections,	10	Q What do they do?
11	correct?	11	A They take up antigens and present them to
12	A Well, it's, yeah, it's possible to find	12	other cells.
13	the alum. Of course, aluminum is a frequent, shall	13	Q So that means that the alum as well as the
14	I say, present in all of us? We ingest a lot of it.	14	antigen that's bound to it are taken up by
15	Q I'm talking about injected aluminum. I'm	15	macrophages and dendritic cells, correct?
16	asking, can it be recovered from the injection site	16	A Yes.
17	months or years after intramuscular injection?	17	Q Okay. Aluminum injected into the brain
18	A I believe it's possible, yes.	18	into the body can travel to the brain, correct?
19	Q In your book that you're holding in front	19	A I don't know that for a fact, but wouldn't
20	of you, do you know if it says, quote: It is	20	be surprised.
21	established that aluminum salt can be recovered at	21	Q You've never seen any studies that show
22	the injection site months or years after	22	that aluminum injected into the body can travel to
23	intramuscular injections?	23	the brain?
24	A Well, I'd have to look at it, but I don't	24	A I have not seen such studies, no, or not
25	doubt that that's, that could be in the book, yes.	25	read such studies.
	Page 296		Page 297
1	_	1	Page 297 Stanley Plotkin M.D.
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. (Exhibit Plaintiff-29 was	2	Stanley Plotkin, M.D. the case. I'd have to look at the concentrations
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2 3	Stanley Plotkin, M.D. (Exhibit Plaintiff-29 was marked for identification.) BY MR. SIRI:	2 3	Stanley Plotkin, M.D. the case. I'd have to look at the concentrations that were injected, whether they were reasonable with respect to what's injected into humans.
2 3 4	Stanley Plotkin, M.D. (Exhibit Plaintiff-29 was marked for identification.) BY MR. SIRI: Q I'm going to hand you what's being marked	2 3 4	Stanley Plotkin, M.D. the case. I'd have to look at the concentrations that were injected, whether they were reasonable with respect to what's injected into humans. (Exhibit Plaintiff-30 was
2 3 4 5	Stanley Plotkin, M.D. (Exhibit Plaintiff-29 was marked for identification.) BY MR. SIRI: Q I'm going to hand you what's being marked as Plaintiff's Exhibit 29. Please take a look at	2 3 4 5	Stanley Plotkin, M.D. the case. I'd have to look at the concentrations that were injected, whether they were reasonable with respect to what's injected into humans. (Exhibit Plaintiff-30 was marked for identification.)
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	Page 298		Page 299
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	of alum vis-a-vis the vaccination schedule. I'll	2	Before we continue, I'm going to mark this one. The
3	post that as a question, but I'll leave it to you to	3	study I just spoke about, I'm going to mark as
4	take you obviously, sounds like you never read	4	Plaintiff's Exhibit 32.
5	this study, so you can take your time.	5	(Exhibits Plaintiff-31 and
6	Okay. Dr. Plotkin, there's no	6	Plaintiff-32 were marked for
7	question pending about that study anymore. So let's	7	identification.)
8	move on.	8	BY MR. SIRI:
9	A Okay.	9	Q I'm going hand this to you.
10	Q Okay? So are you familiar with a study	10	In this study, if you turn to page 5,
11	entitled "Delivery of Nanoparticles to Brain	11	you can actually see pictures of the brain of
12	Metastases of Breast Cancer Using a Cellular Trojan	12	dissected mice injected with aluminum and pictures
13	Horse" from the Indiana University School of	13	of the aluminum in the brain. Let me know when
14	Medicine and Rice University?	14	you've had an opportunity to look at that.
15	A No.	15	A Yes. Okay.
16	Q Are you familiar with a study from 2013	16	(Exhibit Plaintiff-33 was
17	entitled "Slow CCL2-dependent Translocation of	17	marked for identification.)
18	Biopersistent Particles from Muscle to Brain"?	18	BY MR. SIRI:
19	A No.	19	Q Okay. That's from 2013. I'm going to
20	Q Are you familiar with the after this	20	show you another study from 2015 being marked
21	deposition, I'm happy to provide you copies of all	21	Plaintiff's Exhibit No. 33.
22	these studies. You can take an opportunity to look	22	This study involved 155 mice, again
23	at them.	23	injected with aluminum. And, again, you can find
24	Are you familiar with a 2015 study	24	pictures of the aluminum in the dissected mice in
25	entitled "Highly" actually, you know what?	25	their brains.
	Page 300		Page 301
1	Page 300 Stanley Plotkin, M.D.	1	Page 301 Stanley Plotkin, M.D.
1 2		1 2	
	Stanley Plotkin, M.D.		Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. Since we're running short on time, I	2	Stanley Plotkin, M.D. cause for concern?
2 3	Stanley Plotkin, M.D. Since we're running short on time, I won't hand you all the studies on this. But having had an opportunity just for the last few minutes to look at a few of these studies, do you have any	2 3	Stanley Plotkin, M.D. cause for concern? A It could be. But one would need to combine that or look at the symptoms of the patients whose brains are being examined.
2 3 4 5 6	Stanley Plotkin, M.D. Since we're running short on time, I won't hand you all the studies on this. But having had an opportunity just for the last few minutes to	2 3 4 5 6	Stanley Plotkin, M.D. cause for concern? A It could be. But one would need to combine that or look at the symptoms of the patients
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2	A Again, there's no evidence that that's the	<sup>2</sup> experimentation?
3	case.	<sup>3</sup> A I'm not aware of that, but it's quite
4	(Exhibit Plaintiff-35 was	<sup>4</sup> possible that that could happen if you use enough
5	marked for identification.)	<sup>5</sup> IL-6.
6	BY MR. SIRI:	<sup>6</sup> Q Do you know the maximum amount strike
7	Q I'm going to hand you what's being	<sup>7</sup> that.
8	marked I'm going to hand you what's marked	<sup>8</sup> Are you familiar with the study out
9	Exhibit 35. Are you familiar with are you	<sup>9</sup> of are you familiar with the study entitled
10	familiar with this book?	<sup>10</sup> "Inhibition of IL-6 Trans-Signaling in the Brain
11	A No.	<sup>11</sup> Increases Social Ability in the BTBR Mouse Model of
12	Q Well, then I'll give you a copy today when	<sup>12</sup> Autism"?
13	you leave.	<sup>13</sup> A No.
14	MS. RUBY: Okay. Ms. Nieusma, Exhibit 35	<sup>14</sup> Q Are you familiar with the study called
15	is uploading, but it might take just one	<sup>15</sup> "Maternal Immune Activation Alters Fetal Brain
16	second.	<sup>16</sup> Development through Interleukin-6"?
17	MS. NIEUSMA: Okay. No problem.	<sup>17</sup> A Vaguely, yes. Yeah.
18	BY MR. SIRI:	<sup>18</sup> Q Published in the Journal of Neuroscience?
19	Q Dr. Plotkin, has an increase in IL-6 been	<sup>19</sup> A Yeah, well, I don't remember the journal.
20	shown to induce autism-like features in lab animals?	<sup>20</sup> Q Is that one of the journals you consider
21	A Well, IL-6 is an inflammatory cytokine.	<sup>21</sup> respectable?
22	And its relationship to autism, I would say, is not	<sup>22</sup> A Yes.
23	clear. But it is an important cytokine.	<sup>23</sup> Q And this was out of the University of
24	Q Has it been shown to induce autism-like	<sup>24</sup> California Medical Center. This is from California
25	features in animals when injected into animals for	<sup>25</sup> Institute, CalTech. That institution did a number
	D 204	Page 305
	Page 304	Page 505
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
1 2		
	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
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	Page 306		Page 307
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	the University of British Columbia you mentioned	2	aluminum adjuvants may disrupt developmental
3	before, correct?	3	processes in the central nervous system and,
4	A Yes.	4	therefore, contribute to ASD in susceptible
5	Q And it's addressed to HHS, correct?	5	children.
6	A Yes.	6	Q And just the next paragraph.
7	Q As well as NIH?	7	A Despite the foregoing, the safety of
8	A Yes.	8	aluminum adjuvants in vaccines has not been properly
9	Q FDA and CDC, correct?	9	studied in humans, even though pursuant to the
10	A Yes.	10	recommended vaccine schedule published by the
11	Q Okay. In the first paragraph, can you	11	Centers for Disease Control, a baby may be injected
12	read the first paragraph?	12	with up to 3.675 micrograms of aluminum adjuvants by
13	A I am writing to you in regard to aluminum	13	six months of age.
14	adjuvants in vaccines. The subject is one my	14	Q Just the next sentence and I guess we can
15	laboratory works on intensively and, therefore,	15	wrap up.
16	where I feel I have some expertise.	16	A And in regards to the above, it is my
17	In particular, we have studied the	17	belief that the CDC's claim on its website that
18	impact of aluminum adjuvants in animal models of	18	vaccines do not cause autism is wholly unsupported.
19	neurological disease, including autism spectrum	19	So my comments are, one, that my
20	disorder. Our relevant studies on the general topic	20	estimate was pretty much correct. Second, that,
21	of aluminum neurotoxicity in general and	21	unfortunately, Dr. Shaw has been associated with the
22	specifically in regard to adjuvants are cited below.	22	party that I mentioned before, Tomljenovic, who, in
23	Q Now, can you read the last sentence in the	23	my view, is completely untrustworthy as far as
24	next paragraph.	24	scientific data are concerned.
25	A In children there is growing evidence that	25	So I'm concerned about Dr. Shaw being
	Page 308		Page 309
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	influenced by that individual. And the, I'm not	2	Q Are these letters also written by
3	aware that there is evidence that aluminum disrupts	3	individuals who are very experienced in studying
4	the developmental processes in susceptible children.	4	aluminum adjuvant?
5	Q Dr. Shaw is a scientist that studies	5	A Yes. Well, one of the letters
6	aluminum regularly, correct?	6	Q Okay.
7	A Yes.	7	A is from a French group. And I would
8	Q Do you study aluminum regularly?	8	point out that
9	A No.	9	MS. NIEUSMA: Remember, just yes or no
10	MR. SIRI: Okay. Are we done?	10	answers, Dr. Plotkin. We're trying to get you
11	VIDEO OPERATOR: Yep. This ends tape four	11	out of here out of there.
12	of the deposition of Dr. Stanley Plotkin. We	12	THE WITNESS: Yes.
13	are going off the record. The time is 16:33.	13 14	BY MR. SIRI:
14	(Brief recess.)	14	Q Okay. And is the content of these letters
15	VIDEO OPERATOR: This is the beginning of	15	similar to that of the letter from Chris Shaw?
16	Disc No. 5, the deposition of Dr. Stanley	10	A Yes.
17	Plotkin. We are on the record. The time is	18	(Exhibit Plaintiff-39 was
18 19	16:43.	19	marked for identification.) BY MR. SIRI:
20	BY MR. SIRI:	20	
20	Q Now, Dr. Plotkin, I'm handing you what has been marked as Plaintiff's Exhibits 37 and 38.	20	Q Dr. Plotkin, I'm going to hand you what's been marked as Plaintiff's Exhibit 39. Okay. This
21	(Exhibits Plaintiff 37 and 38.	22	is a study entitled "Aluminum in the Brain Tissue in
23	Plaintiff-38 were marked for	23	Autism," correct?
24	identification.)	24	A Yes.
25	BY MR. SIRI:	25	Q And it was published in the Journal of

	Page 310		Page SII
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Trace Elements in Medicine and Biology, correct?	2	Q What is encephalopathy?
3	A Yes.	3	A Well, it's a vague term that means
4	Q And it found, and according to its author,	4	something's wrong with the brain.
5	he found what he says is some of the highest values	5	Q What is encephalomyelitis?
6	of aluminum in human tissue yet recorded in the	6	A Inflammation of the brain.
7	brains of these autistic children who died	7	Q Do all five of the DTaP-containing
8	prematurely, correct?	8	vaccines sold in this country list encephalopathy
9	A Well, I'd have to read the paper, but	9	within seven days of a prior pertussis-containing
10	apparently that's the case.	10	vaccine as a contraindication?
11	Q And do you know that the stand-out	11	A In other words, if encephalitis is present
12	observation in this study is that the aluminum that	12	at the time of vaccination?
13	he found was in the immune cells of the brain,	13	Q Mm-hmm.
14	including within immune cells traveling into the	14	A Yes, I imagine so.
15	brain?	15	Q No. Meaning that if there was
16	A Yes. But they were not associated with	16	encephalopathy within seven days of a prior
17	-	17	pertussis-containing vaccination, that's a
18	neurons. Q They also found aluminum in the neurons as	18	contraindication to getting more pertussis
19	well, Dr. Plotkin, correct?	19	vaccination?
20		20	
21	A But mostly in other cells.	21	A Oh, yes.
22	Q And immune-related cells, right,	22	Q Okay. And do all three of the
23	immune-system-related cells?	23	hepatitis A-containing vaccines sold in this country
23	A Cells that travel, yes.	23	list encephalitis or encephalopathy as a reported
24	Q What is encephalitis?	24	adverse reaction in Section 6.2 of their product
20	A Inflammation of the brain.	25	inserts?
	Page 312		Page 313
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Well, I don't know that for sure, but I	2	most pediatric vaccines?
3	imagine that it is a contraindication.	3	A Well, that's vary variable. I mean,
4	Q Do all three of the hepatitis B-containing	4	perhaps up to 50 milligrams. Depends entirely on
5	vaccines sold in this country list either	5	the vaccine.
6	encephalitis or encephalopathy as a reported adverse	6	Q Miniscule amount, though, very tiny?
7	reaction in Section 6.2 of their product insert?	7	A Yes.
8	A Yes.	8	Q Almost could you even see it with the
9	Q Do almost all of the flu vaccines sold in	9	naked eye if you had it?
10	this country list encephalopathy or	10	A Yeah, you could in some cases, yes.
11	encephalomyelitis as a reported adverse reaction in	11	Q Some cases?
12	6.2	12	A Mm-hmm.
13	A Yes.	13	Q But for most vaccines, it would probably
14	Q of their insert?	14	be very difficult?
15	Does the only chicken pox vaccine	15	A Yes.
16	sold in this country list encephalitis as a reported	16	Q Okay. Are there any ingredients in
17	adverse reaction?	17	vaccines that you're aware of that can damage
18	A Yes.	18	neurons?
19	Q Why do you think brain swelling after	19	A Not that I'm aware of, no.
20	vaccination is being reported in all of these	20	Q Are there any vaccines, any ingredients in
21		21	vaccines that you're aware of that can damage human
	vaccines?		vaccines that you're aware of that call tallage hulliall
	vaccines?		•
22	A Anything that happens after vaccination is	22	cells?
22 23	A Anything that happens after vaccination is included in contraindications. That they are	22 23	cells? A Oh, well, I mean, that depends on the
22 23 24	A Anything that happens after vaccination is included in contraindications. That they are related causally is not necessarily the case.	22 23 24	cells? A Oh, well, I mean, that depends on the concentrations and so forth. Human cells, of
22 23	A Anything that happens after vaccination is included in contraindications. That they are	22 23	cells? A Oh, well, I mean, that depends on the

	Page 314	Page 315
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	again, it's very much dependent on the	<sup>2</sup> are cells derived from the kidney that will continue
3	concentration.	<sup>3</sup> to multiply and, therefore, can be used to make
4	Q Do any of the vaccines on the childhood	<sup>4</sup> vaccines in.
5	schedule contain monkey kidney cells?	<sup>5</sup> Q Cells that continue to multiply unabated
6	A Well, the polio vaccine does.	<sup>6</sup> are typically considered cancerous, right?
7	Q Okay. Go ahead. I'm sorry.	<sup>7</sup> A Well, if, depends on the circumstances in
8	A Go ahead. I'll stop there.	<sup>8</sup> the cells. But it's true that cancer cells do
9	Q Are the monkey kidneys used in making the	<sup>9</sup> continue to replicate indefinitely. The vero cells
10	polio vaccine removed from the monkey while the	<sup>10</sup> are only used at certain passage levels. They're
11	animal is still alive?	<sup>11</sup> not used, you know, a thousand passages further on.
12	A These days much of the polio vaccine is	<sup>12</sup> Q In relation to the amount of polio antigen
13	produced in a continuous cell line of, derived from	<sup>13</sup> in the final polio vaccine product, how much monkey
14	monkeys rather than from monkeys, from live monkeys,	<sup>14</sup> kidney cell material is there in the final product?
15	so to speak. So I'm pretty sure that the IPOL	<sup>15</sup> Is it about the same amount? Is there more monkey
16	vaccine, for example, is produced in vero cells.	<sup>16</sup> kidney cell? Is there less?
17	Q Okay. And when you say "continuous cell	<sup>17</sup> A No. I can't give you a figure offhand.
18	line," what do you mean by that?	<sup>18</sup> But the, I am pretty sure that the amount of polio
19	A I mean a cell that grows continuously	<sup>19</sup> antigen is superior to the amount of kidney antigen.
20	derived from tissues that were normal tissues to	<sup>20</sup> Q But you're not sure?
21	begin with.	<sup>21</sup> A I don't recall the exact amounts.
22	Q I'm sorry. Say that again, Doctor.	<sup>22</sup> Q Monkey cellular material remaining in the
23	A So they are cells that continue to	<sup>23</sup> vaccine is considered either impurities or byproduct
24	multiply, unlike cells from a, let's say, from a	<sup>24</sup> of the manufacturing process, correct?
25	kidney that will not continuously multiply. These	<sup>25</sup> A Yes.
	Page 316	Page 317
1		1 Stanley Plotkin M D
	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q Do any vaccines in the childhood vaccine	<sup>2</sup> BY MR. SIRI:
2 3	•	Stanley Hotkin, M.D.
	Q Do any vaccines in the childhood vaccine	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's</li> <li>been marked as Plaintiff's Exhibit 40. What is</li> </ul>
3 4 5	<ul><li>Q Do any vaccines in the childhood vaccine schedule contain blood serum from calves or other bovines?</li><li>A Well, frequently calf serum is used to</li></ul>	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's been marked as Plaintiff's Exhibit 40. What is</li> <li>this?</li> </ul>
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3 4 5 6 7 8	<ul> <li>Q Do any vaccines in the childhood vaccine schedule contain blood serum from calves or other bovines?</li> <li>A Well, frequently calf serum is used to make the vaccine, but calf serum is removed before the vaccine is used because you don't want to sensitize the vaccinee to cows.</li> </ul>	<ul> <li>BY MR. SIRI:</li> <li>Q Dr. Plotkin, I'm going to hand you what's</li> <li>been marked as Plaintiff's Exhibit 40. What is</li> <li>this?</li> <li>A Vaccine Excipient &amp; Media Summary.</li> <li>Q And who produces this document, the CDC,</li> <li>correct, or the FDA?</li> </ul>
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Page	319
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q Removed because, otherwise, it would be	2	was casein in the vaccine, a child could become
3	dangerous, you said, right?	3	sensitized to that, correct?
4	A Yes. Yes.	4	A No, I'm not sure about that.
5	Q Can you go to the top of this document.	5	Q You're not sure anymore about that?
6	You see it says you know what? Let me ask you a	6	A No.
7	few other questions, and then we'll come back to	7	Q Yeah.
8	this document, Dr. Plotkin. Few quick questions and	8	A I think there are other sensitizing things
9	then we'll come back to it.	9	in calf serum.
10	Do any vaccines on the childhood	10	Q Dr. Plotkin, can I see that a second. Did
11	schedule contain embryonic guinea pig cultures?	11	I give you the right one?
12	A Embryonic guinea pig. I don't think any	12	So earlier you said okay. So do
13	current vaccine is made in guinea pig cells.	13	any vaccines contain egg protein?
14	Varicella vaccine was passaged in guinea pig cells,	14	A Oh, yes. Influenza vaccines.
15	but certainly not made in guinea pig cells.	15	•
16		16	Q And do those remain in the final product?
17	Q Do you know if any vaccines contain cows'	17	A I believe they do, yes. Not huge amounts,
18	milk in it or products from cow	18	but there are traces certainly.
19	A Cows' what?	19	Q Do any vaccines contain gelatin from pigs?
	Q Any product derived from cows' milk, any		A Yes.
20	component derived from cows' milk?	20	Q Do any vaccines contain gelatin from cows?
21	A Oh, well, could be, casein, for example,	21	A Actually, I think in Muslim countries,
22	could be	22	they have tried to do that. But mostly it's from
23	Q Casein	23	pig.
24	A could be used.	24	Q Do any vaccines contain recombinant GMO
25	Q Dr. Plotkin Dr. Plotkin, and if there	25	yeast?
	Page 320		Page 321
1		1	
1 2	Stanley Plotkin, M.D.	1 2	Stanley Plotkin, M.D.
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	continue.	2	and then die.
3	MS. NIEUSMA: All right.	3	Q So MRC-5 cells are cultured cell lines
4	MR. SIRI: Thank you.	4	from aborted fetal tissue?
5	MS. RUBY: Ms. Nieusma, if you want to	5	A They're not cell lines.
6	rejoin the conversation, obviously you can dial	6	Q What are they?
7	back in.	7	A They're cell strains cultivated from an
8	MS. NIEUSMA: Yeah. I'm just going to	8	aborted fetus, yes.
9	leave you guys on speaker in my office and do	9	Q So cell strains from an aborted fetus?
10	this in the conference room and I'll be back.	10	A Yes. Yeah. They're not immortal.
11	MS. RUBY: Okay.	11	Q They live for five generations and then
12	BY MR. SIRI:	12	they die?
13	Q Do any vaccines on the childhood vaccine	13	A About 50 generations.
14	schedule contain MRC-5 human diploid cells?	14	Q About 50 generations and then they die?
15	A Yes.	15	A Yes.
16	Q What are these?	16	Q And then how is more MRC-5 created?
17	A Rubella, varicella, hepatitis A.	17	A Well, a seed stock is made of early
18	Q What are MRC-5 cells?	18	passage cells so that one can go back to the seed
19	A They are human fibroblast cell strain.	19	stock, which is, let's say, at the, more or less the
20	Q And how are they created?	20	eighth passage and make new cells at the 20th
21	A They were created by taking fetal tissue	21	passage and use those to make the vaccine.
22	and, from a particular fetus that was aborted by	22	Q Okay. So these are, these cell strains
23	maternal choice. And the cells, so-called	23	are human cells?
24	fibroblast cells were cultivated from that tissue.	24	A Yes.
25	The fibroblast cells replicate for about 50 passages	25	Q Do any vaccines on the childhood vaccine
	Page 324		Page 325
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	schedule contain WI-38 human diploid lung	2	Q Do any vaccines in the childhood vaccine
3	fibroblast?	3	schedule contain human albumin?
4	A Well, they used to, but I don't think	4	A Oh, yes.
5	anything is made in those cells anymore. They have	5	Q What is human albumin?
6	been replaced by MRC-5.	6	A Human albumin is part of human serum.
7	Q So you're not aware of any vaccine that	7	Q And what is human serum?
8	has in its final formulation WI-38 human diploid	8	A What is human serum? Human serum is part
9	lung fibroblasts?	9	of the blood that is liquid.
10	A As I said, at one point in the past,	10	Q Right. It's the non-red blood cell part
11	RA 27/3, for example, rubella vaccine, was grown in	11	of the
12	WI-38. But the supply is insufficient, so MRC-5 is	12 13	A Yes.
13 14	now used.	14	Q of the blood, right?
	Q And these, and WI-38 was created from an	14	From where was it obtained?
15 16	aborted fetus?	16	A The human serum?
17	A Yes.	17	Q Yes.
18	Q They took the lung tissue from the aborted fetus?	18	A Well, that would be variable from donors
19	A Yes.	19	who are healthy donors. That's all I can say to that.
20		20	
21	Q And from that they'd grown this cell line, correct?	21	Q How is it used in the manufacturing process?
22	A Yes. Cell strain.	22	A I'm sorry?
23	Q Cell strain.	23	Q How is it used in the manufacturing
24	Is this cell line immortal?	24	process?
25	A No.	25	A Well, serum is used to keep cells healthy

	Page 326		Page 327
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	during the process of making a vaccine. So, in	2	that. Apologies.
3	other words, since the vaccines or some vaccines	3	Do any vaccines in the childhood
4	have to be grown in cells, you have to keep the	4	vaccine schedule contain recombinant human albumin?
5	cells in a good state.	5	A Yes.
6	Q So the cells that are used the virus or	6	Q What is recombinant human albumin,
7	bacteria the viruses used in some of the vaccines	7	A-L-B-U-M-I-N?
8	are grown in this human blood component?	8	A So it's a component of human serum which
9	A Well, yes. I believe that the serum is	9	is useful to stabilize cells and keep them healthy,
10	removed in the final product, but certainly it's	10	and it's made by genetic engineering.
11	important to keep the cells healthy during the	11	Q Okay. So it's genetically engineered
12	manufacture of the vaccine.	12	human serum basically?
13	Q Do you think that so none of it remains	13	A Part of human serum, yes.
14	in the final product?	14	Q Is that, are these genetically engineered
15	A I don't believe so, no.	15	protein structures?
16	Q Because that could be problematic, right?	16	A Yes. And the idea was to eliminate any
17	A Well, it could be. I mean, if the	17	possibility of a contaminant from human albumin
18	individual is not, not healthy.	18	obtained from the donors. So it's made in cells,
19	Q Right. Or if maybe some of the, you know,	19	using the DNA for albumin, and that way one can be
20	human blood components bind to some of the aluminum	20	sure that there's no contaminant.
21	and develop antibodies, self-antibodies, correct?	21	Q And, again, you pretty much want to make
22	A If they develop antibodies, sen-antibodies, confect?	22	sure that none of that remained in the final
23	serum component, that would not be good.	23	product, too, right?
24	Q Right. What, do any vaccines contain	24	A Well, human albumin is probably not much
25	human material in them that I'm sorry. Strike	25	of a problem in terms of causing reactions. So
	numan materiar in them that Thi sorry. Surke	-	of a problem in terms of causing reactions. 30
	Daga 200		Daga 200
	Page 328		Page 329
1	Stanley Plotkin, M.D.	1	Page 329 Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. Q But in terms of it potentially binding to	1 2	Stanley Plotkin, M.D. A Yes.
	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct?	2 3	Stanley Plotkin, M.D. A Yes. Q and contains approximately two
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2 3	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct?	2 3 4 5	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA?
2 3 4	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human	2 3 4 5 6	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true.
2 3 4 5	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and	2 3 4 5 6 7	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the
2 3 4 5 6	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human	2 3 4 5 6 7 8	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true.
2 3 4 5 6 7	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and	2 3 4 5 6 7	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the
2 4 5 7 8	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct?	2 3 4 5 6 7 8	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely.
2 3 5 6 7 8 9	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500	2 3 4 5 6 7 8 9 10 11	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA?
2 3 4 5 6 7 8 9	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length?	2 3 5 6 7 8 9 10	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves
2 3 4 5 6 7 8 9 10 11	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say	2 3 4 5 6 7 8 9 10 11 12 13	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below
2 3 4 5 6 7 8 9 10 11 12	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put	2 3 4 5 6 7 8 9 10 11 12	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included
2 3 4 5 6 7 8 9 10 11 12 13 14	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion.	2 3 4 5 6 7 8 9 10 11 12 13 14	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose purposefully fragmented to approximately 215 baste	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would travel from the site of injection to the semen or the ovaries.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose purposefully fragmented to approximately 215 baste base pairs in length? A Yeah, that's probably correct, yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would travel from the site of injection to the semen or
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose purposefully fragmented to approximately 215 baste base pairs in length? A Yeah, that's probably correct, yes. Q And is it true that VARIVAX, vaccine for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would travel from the site of injection to the semen or the ovaries.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose purposefully fragmented to approximately 215 baste base pairs in length? A Yeah, that's probably correct, yes. Q And is it true that VARIVAX, vaccine for chicken pox, is manufactured using WI-38 and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would travel from the site of injection to the semen or the ovaries. Q Could it insert into itself DNA even in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. Q But in terms of it potentially binding to the alum, that could be problematic, correct? A Well, I don't know the answer to that question. Q Okay. The vaccines that contain human material in them, they also contain human DNA and protein, correct? A They may, yes. Q Isn't it true that human DNA in vaccines is typically purposefully fragmented to below 500 base pairs in length? A Yes. One doesn't, you know, I would say mostly for theoretical reasons, doesn't want to put DNA into, attacked DNA into vaccines. I think the actual risk is zero, but that's my opinion. Q Isn't it true that MMR II contains approximately 150 nanograms cells substrate double-strand DNA and single-strand DNA per dose purposefully fragmented to approximately 215 baste base pairs in length? A Yeah, that's probably correct, yes. Q And is it true that VARIVAX, vaccine for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Stanley Plotkin, M.D. A Yes. Q and contains approximately two micrograms of cell substrate double-strand DNA or approximately 1 trillion fragments of human DNA? A It may be true. Q Isn't it true that the Havrix, the hepatitis A vaccine, also contains millions of fragments of human DNA? A Likely. Q Do you know whether strands of DNA below 500 base pairs are now known to insert themselves into living cells with which they come into contact? A I do not have that information, but the likelihood that they would be genetically included in the genome of vaccinees, in my view, is zero. Q Do you have a study to support that view? A I do not have a study that supports that view. But it is, to me, unlikely that the DNA would travel from the site of injection to the semen or the ovaries. Q Could it insert into itself DNA even in the muscle tissue or if it gets into the blood

	Page 330		Page 331
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	mean that it's going to have any impact on the	2	Q Is there data to show that it doesn't do
3	individual.	3	that?
4	Q Are you familiar with the insertional	4	A Yes. Observations made over millions of
5	mutagenesis?	5	vaccinees.
6	A Yes.	6	Q Okay. And you have the studies to show
7	Q Do you have any study to show that	7	that, right?
8	injecting millions of pieces of human DNA into	8	A The studies are easily available in terms
9	babies and children is safe?	9	of vaccine safety studies that have been done by
10	A The only studies are all the safety	10	many, many people.
11	studies that have been done on vaccines.	11	Q Excellent. Then it should be very easy
12	Q And you can produce those studies, right?	12	for you to direct me to those and can provide
13	A Well, those studies are available from the	13	copies?
14	manufacturers and from CDC, and I'm not aware of any	14	A Yes.
15	data showing that the inheritable characteristic was	15	Q Wonderful.
16	transmitted by a vaccine.	16	A You can read the chapter on vaccine
17	Q So you don't, you don't personally don't	17	safety.
18	know of any study that shows the safety of injecting	18	Q Vaccines contain dead or weakened polio
19	human, millions pieces of human DNA into babies?	19	virus, correct?
20	A Such studies are general safety studies,	20	A IPV does, yes.
21	and I haven't yet seen the vaccinee develop a new	21	Q Beginning in the 1950s, polio vaccines
22	genetic trait as a result of vaccination.	22	were routinely grown on nonhuman primate kidney
23	Q Is it possible it can cause cancer?	23	cells, correct?
24	A Anything is possible, but there are no	24	A Correct.
25	data to support that.	25	Q Are you aware of any simian monkey
	D		Dama 222
	Page 332		Page 333
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	viruses, meaning viruses that come from primates,	2	only one was recovered from the vaccine.
3	that contaminated polio vaccines and infected	3	Q Which one is that?
4	individuals receiving the polio vaccine?	4	A I think it was 2.
5	A Yes. SV40.	5	Q Circovirus 2.
6 7	Q What does that SV40 stand for?	7	A I think so.
8	A Simian virus 40.	8	Q Are you aware of any retrovirus that are
9	Q Was it the 40th simian virus found?	9	in any vaccine?
10	A Yes.	10	A Retroviruses? No.
11	Q Are you aware of any other simian viruses that are in any vaccine?	11	Q Are you aware of any prions that are in
12	A At this stage, no.	12	any vaccine? A No.
13	Q Are you aware of any bovine virus that is	13	Q Are you aware of any human viruses that
14	in any vaccine?	14	are in any vaccine apart from the virus for which
15	A Well, bovine virus. Nothing comes to mind	15	the vaccine is intended?
16	at the moment.	16	A No.
17	Q Are you aware of any virus from any animal	17	Q You indicated that they did find a porcine
18	other than simian or bovine that is in any vaccine?	18	circovirus type 2 in rotavirus, correct?
19	A Yes. There's a pig virus present in one	19	A Yes.
20	of the rotavirus vaccines.	20	Q Was that unintentional?
21	Q What is that virus called?	21	A Yes.
22	A Circovirus.	22	Q When it was released to the market, they
23		23	didn't know that virus was in there, correct?
23 24		23 24	didn't know that virus was in there, correct? A Correct.
	Q Is there more than one type, or is there		

	Page 334		Page 335
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	on the market, they didn't know SV40 was in there,	2	schedule would be injected with?
3	correct?	3	A I don't have the amount, no.
4	A Correct.	4	Q Now, I'm going to give you back
5	Q Are you aware of how many micrograms of	5	Exhibit 40, Dr. Plotkin. Take a look at that a
6	2-phen, P-H-E-N-O-X-Y-E-T-H-A-N-O-L? How do you	6	moment. You indicated that you weren't aware that
7	pronounce that?	7	WI-38 was in the final vaccine product. If you
8	A 2-phenoxyethanol.	8	could turn to page 3 for MMR and MMR V.
9	Q Yeah. Are you aware of how many	9	A (Witness complies.)
10	micrograms of 2-phenoxyethanol a child following the	10	Q Do you see that within the ingredient list
11	childhood vaccine schedule would be injected with?	11	that lists WI-38 human diploid lung fibroblast?
12	A No. I'd have to look that up.	12	A Yes, I do see that.
13	Q Do you think it's close to around a	13	Q I believe that of the ingredients that we
14	hundred micrograms?	14	discussed until now, the rest of them you indicated
15	A It could be, but I'd have to look it up.	15	you are aware are in vaccines except for are
16	Q Do you know safe level in terms of that	16	
17	ingredient?	17	there any ingredients we discussed until now that
18	A I am not aware that there, that there is	18	you believe are not in vaccines?
19	toxicity associated with 2-phenoxyethanol. It's a	19	A Well, I'd have to go back over all the
20		20	questions you asked, but I do want to say that
21	fairly harmless substance, as far as I'm aware.	21	WI-38, as I said before, was the original fibroblast
21	Q Do you know any vaccines in the childhood	21	cell line. And I think that manufacturers have
23	schedule that include ferric nitrate?	23	significantly shifted to MRC-5. But WI-38 could
23	A Ferric nitrate? No, I don't recall that.	23	still be used. I don't see anything wrong with
25	Q Are you aware of how many micrograms of	24	that.
20	polysorbate 80 a child following the vaccine	25	Q Are there any vaccine ingredients that are
	Page 336		Page 337
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	not listed on the FDA's official vaccine excipient	2	A Yes. But the protein has to be of the
3	and media summary table that you're aware of?	3	right size and presentation in order to induce an
4	A I don't see how I can really answer that	4	immune response. And that will not always be the
5	question without reading the whole thing. But I	5	1
б		5	case if the protein is small or is something not
		6	case if the protein is small or is something not recognize by the human immune system.
7	imagine that it's a complete list.		recognize by the human immune system.
7 8	imagine that it's a complete list. Q Okay. Isn't it true that an adjuvant will	6	recognize by the human immune system. Q Do you know whether the protein structure
8	<ul><li>imagine that it's a complete list.</li><li>Q Okay. Isn't it true that an adjuvant will</li><li>bind not only to the target antigen but also to the</li></ul>	6 7	recognize by the human immune system. Q Do you know whether the protein structure for any of the ingredients on Exhibit 40 are not the
	imagine that it's a complete list. Q Okay. Isn't it true that an adjuvant will bind not only to the target antigen but also to the impurities and byproduct of the manufacturing	6 7 8	recognize by the human immune system. Q Do you know whether the protein structure for any of the ingredients on Exhibit 40 are not the right size to bind to alum?
8 9	imagine that it's a complete list. Q Okay. Isn't it true that an adjuvant will bind not only to the target antigen but also to the impurities and byproduct of the manufacturing process?	6 7 8 9	recognize by the human immune system. Q Do you know whether the protein structure for any of the ingredients on Exhibit 40 are not the right size to bind to alum? A Well, I think it's unlikely. The
8 9 10	<ul> <li>imagine that it's a complete list.</li> <li>Q Okay. Isn't it true that an adjuvant will bind not only to the target antigen but also to the impurities and byproduct of the manufacturing process?</li> <li>A Probably, yes.</li> </ul>	6 7 8 9 10	<ul><li>recognize by the human immune system.</li><li>Q Do you know whether the protein structure for any of the ingredients on Exhibit 40 are not the right size to bind to alum?</li><li>A Well, I think it's unlikely. The monosodium glutamate, for example, will cause an</li></ul>
8 9 10 11 12	<ul> <li>imagine that it's a complete list.</li> <li>Q Okay. Isn't it true that an adjuvant will bind not only to the target antigen but also to the impurities and byproduct of the manufacturing process?</li> <li>A Probably, yes.</li> <li>Q And those impurities and byproducts are</li> </ul>	6 7 8 9 10 11	<ul><li>recognize by the human immune system.</li><li>Q Do you know whether the protein structure for any of the ingredients on Exhibit 40 are not the right size to bind to alum?</li><li>A Well, I think it's unlikely. The monosodium glutamate, for example, will cause an immune response. I have to look through the whole</li></ul>
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q Okay. Other than the strike that.	<sup>2</sup> Q Well, I'm just trying to know if you know
3	How about, and we talked earlier,	<sup>3</sup> or you're just, you're not sure. That's all. I'm
4	human albumin, that would be of a big enough protein	<sup>4</sup> not asking I'm just saying if you don't know,
5	structure to bind to alum, correct?	<sup>5</sup> just say you don't know. That's fine.
6	A It could, although the fact that it's	<sup>6</sup> A I have no reason to believe that DNA will
7	human means that individuals might well not respond	<sup>7</sup> bind to albumin.
8	to that is, not respond to human albumin as a	<sup>8</sup> Q But you don't know for sure?
9	foreign protein.	<sup>9</sup> A I have not done the experiment, no.
10	Q Right. Maybe not alone, right? But bound	<sup>10</sup> Q Okay. And do you know whether it will
11	to alum it might, correct?	<sup>11</sup> bind to any of the cellular debris from MRC-5 or
12	A It might. But I'm not aware of evidence	<sup>12</sup> WI-38?
13	that it does.	<sup>13</sup> A Whether human albumin would bind?
14	Q Are you aware of a study that looked at	<sup>14</sup> Q No. Whether alum would bind to MRC-5 or
15	that issue?	<sup>15</sup> any of the cellular debris that's in the final
16	A I have not read such a study, no.	<sup>16</sup> product from MRC-5 or
17	Q How about the human DNA, do you believe	<sup>17</sup> A Oh, I think it could, but I don't know
18	that the human DNA strands can bind to the alum?	<sup>18</sup> that it does.
19	A No.	<sup>19</sup> Q Do you know whether alum could bind to any
20	Q Why is that?	<sup>20</sup> of the cellular debris from WI-38?
21	A I don't see any chemical reason why it	<sup>21</sup> A It might, but I don't know that for a
22	should.	<sup>22</sup> fact.
23	Q Any reason why it shouldn't?	<sup>23</sup> Q Do you know whether alum would bind to any
24	A Proving a negative is always more	<sup>24</sup> of the gelatin from pigs?
25	difficult.	<sup>25</sup> A I think that's unlikely.
	Page 340	Page 341
1	Page 340 Stanley Plotkin, M.D.	
1 2		
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2	Stanley Plotkin, M.D. Q Why is that?	<ol> <li>Stanley Plotkin, M.D.</li> <li>Dr. Plotkin?</li> <li>A Yes.</li> <li>Q Are you listed as an author on this</li> </ol>
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	vaccines, how many fetuses have	2	correct?
3	been part of that work?	3	A I don't remember exactly how many.
4	"A. My own personal work?	4	Q If you turn to page 12 of the study.
5	Two.")	5	A Seventy-six.
6	BY MR. SIRI:	6	Q Seventy-six. And these fetuses were all
7	Q So I'm going to ask that question again.	7	three months or older when aborted, correct?
8	In your work related to vaccines, how many fetuses	8	A Yes.
9	were involved in that work?	9	Q And these were all normally developed
10	A There were only two fetuses involved in	10	fetuses, correct?
11	making vaccines. When fetal strains of, fibroblast	11	A Yes.
12	strains were first developed, I was involved in that	12	Q Okay. These included fetuses that were
13	work trying to characterize those cells; but they	13	aborted for social and psychiatric reasons, correct?
14	were not used to make vaccines.	14	A Correct.
15	Q Wasn't the purpose of this study to help	15	Q What organs did you harvest from these
16	develop a human cell line or to support the use of	16	fetuses?
17	human cell lines in the creation of vaccines?	17	A Well, I didn't personally harvest any, but
18	A The idea was to study the cell strains	18	a whole range of tissues were harvested by
19	from fetuses to determine whether or not they could	19	co-workers.
20	be used to make vaccines.	20	Q And these pieces were then cut up into
21	Q So this was related to your work?	21	little pieces, right?
22	A Well, yes, in a sense	22	A Yes.
23	Q To vaccines, correct?	23	Q And they were cultured?
24	A Yes. It was preparatory.	24	A Yes.
25	Q So this study involved 74 fetuses,	25	Q Some of the pieces of the fetuses were
	Page 344		Page 345
1	Page 344	1	Page 345 Stanloy Plotkin M.D.
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
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1	Page 340		Page 347
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	hundred fetuses?	2	A Yes.
3	A Oh, no, I don't think it was that many.	3	Q Have you ever used the mentally
4	Probably not many more than in this paper.	4	handicapped to study an experimental vaccine?
5	And I should stipulate that we had	5	A I don't recollect ever doing studies in
6	nothing to do with the cause of the abortion.	6	mentally handicapped individuals. At the time in
7	Q Some of these were for psychiatric	7	the 1960s, it was not an uncommon practice.
8	institutions, correct?	8	Q So you're saying I'm not clear on your
9	A Actually, all I can say is that the	9	answer. I'm sorry. Have you ever used mentally
10	fetuses that I personally worked with actually came	10	handicapped to study an experimental vaccine?
11	from Sweden, from a Swedish co-worker. And so I, in	11	A What I'm saying is I don't recall
12	no case, was able to determine what exactly the	12	specifically having done that, but that in the
13	reason for the abortion was.	13	1960s, it was not unusual to do that. And I
14	Q I'm just asking you, some of the fetuses	14	wouldn't deny that I may have done so.
15	that you did use did come from abortions from people	15	(Discussion off the stenographic
16	who were in psychiatric institutions, correct?	16	record.)
17	A I don't know that. What I'm telling you	17	BY MR. SIRI:
18	is that I got them from a co-worker; and if it's	18	Q I'm going to read you a sentence from what
19	stated in the paper, it's true. But, otherwise, I	19	what's been previously marked as
20	do not know.	20	MS. RUBY: No, that wasn't.
21	Q So if it's in the paper, you don't contest	21	BY MR. SIRI:
22	it, right?	22	Q - Exhibit 7.
23	A I don't contest it, no.	23	MS. RUBY: That's not what got marked as
24	Q Okay. Have you ever used orphans to study	24	Exhibit 7. That got the task force was
25	an experimental vaccine?	25	seven.
	1 I		
	Page 348		Page 349
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3	MR. SIRI: Oh. MS. NIEUSMA: So this should be 42.	2 3	possible. And, again, I repeat that in the 1960s, that was more or less common practice. I've since
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	A Yes.	<sup>2</sup> MR. SIRI: R-U-A-N-D-A, dash, U-R-U-N-D-I.
3	Q It may be objected that this question	<sup>3</sup> BY MR. SIRI:
4	implies a Nazi philosophy, but I do not think that	4 Q When was that visit?
5	it is difficult to distinguish nonfunctioning	<sup>5</sup> A 1959.
6	persons from members of ethnic, racial, economic, or	<sup>6</sup> Q And how long were you there?
7	other groups.	<sup>7</sup> A Oh, couple of months.
8	A Mm-hmm.	<sup>8</sup> Q Two months?
9	Q Have you ever used babies of mothers in	<sup>9</sup> A I think so, yes.
10	prison to study an experimental vaccine?	<sup>10</sup> Q Could it have been longer?
11	A Yes.	<sup>11</sup> A No. I don't think it was longer than
12	Q Have you ever used individuals under	$^{12}$ that.
13	colonial rule to study an experimental vaccine?	<sup>13</sup> Q What places did you visit?
14	A Yes.	<sup>14</sup> A What was then called Leopoldville,
15	Q Did you do so in the Belgian Congo?	<sup>15</sup> Stanleyville, Kivu.
16	A Yes.	<sup>16</sup> Q Kivu?
17	Q Did that experiment involve almost a	<sup>17</sup> A Yes.
18	million people?	$^{18}$ Q K-I-V-U?
19	A Well well, all right, yes.	<sup>19</sup> A Yes. Burundi.
20	Q Did you ever visit what was the Belgian	<sup>20</sup> MS. RUBY: Ms. Nieusma, are you back?
21	Congo and Ruanda-Urundi?	<sup>21</sup> MS. NIEUSMA: I am.
22	A Yes.	<sup>22</sup> THE WITNESS: Could have been a couple of
23	Q How many times?	<sup>23</sup> other places, but I don't remember.
24	A Once.	<sup>24</sup> BY MR. SIRI:
25	MS. RUBY: Spell it.	<sup>25</sup> Q I've heard you talk, I've heard some of
	Page 352	Page 353
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
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1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q Okay. And then finally Burundi?	<sup>2</sup> Q What did you do in Kivu?
3	A Again, I don't know. Maybe a week. I'm	<sup>3</sup> A As I recall, I just visited the place.
4	not sure.	
5		
	Q Okay. What were you doing in	
6	Leopoldville?	Q Did you vacemate anybody personany.
7	A I was examining the data on oral polio	7 A It was a scenic area.
8	vaccination in the city.	<sup>8</sup> Q Did you vaccinate anybody personally
9	Q Anything else?	<sup>9</sup> there?
10	A No.	<sup>10</sup> A No.
11	Q Did you vaccinate anybody?	<sup>11</sup> Q What about Bukavu?
12	A Personally, no.	<sup>12</sup> A I did not do any vaccination there either
13	Q How about in, what were you doing in	<sup>13</sup> Q What were you doing there?
14	Stanleyville?	<sup>14</sup> A I was just visiting.
15	A I was visiting the chimpanzee laboratory	<sup>15</sup> Q Like a tourist?
16	and talking to scientists in Stanleyville.	<sup>16</sup> A Yes.
17	Q Talking about what?	<sup>17</sup> Q Same thing with Kivu, as a tourist?
18	A Well, about polio mainly.	18 A Yes.
19	Q And what about polio?	19 Q What about Burundi?
20	A What about polio? Obviously, they were	<sup>20</sup> A There, I had some discussions with
21	having polio, and we were talking about how to	<ul> <li><sup>21</sup> scientists.</li> </ul>
22		serentists.
23	protect the people against polio.	e e
	Q And did you the vaccinate anybody while	n noout pono.
24	you were in Stanleyville personally?	Q Okay. Did you, other than that, did you
25	A Personally, no.	<sup>25</sup> do anything else in Burundi?
	Page 356	Page 357
1		
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1	Page 358	Page 359
-	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	Q Are you an atheist?	<sup>2</sup> Q One child can make a difference?
3	A Yes.	<sup>3</sup> A One child probably doesn't make a
4		<sup>4</sup> difference, but a collection of one childs do make a
5	Q Do you accept that some people hold	
	religious beliefs that are inherently unprovable?	unreferiee.
6	A Yes, I'm sure they do.	Q The most recent Men meeting, you spoke
7	Q You said that, quote: Vaccination is	<sup>7</sup> and gave ACIP three pieces of advice, correct?
8	always under attack by a legal system that profits	<sup>8</sup> A Yes.
9	from the failure of most people to understand	<sup>9</sup> Q One of them was to conduct more vaccine
10	risk/benefit ratios or public health issues,	<sup>10</sup> safety studies to prove the anti-vaccinationists
11	correct?	<sup>11</sup> wrong, right?
12	A Yes.	<sup>12</sup> A Yes. Correct.
13	Q Can you explain what you mean by that,	<sup>13</sup> Q Okay. If the science to prove vaccines
14	shortly?	<sup>14</sup> safe already exist, why would more safety studies be
15	A I mean that the risk from vaccines, for	<sup>15</sup> needed to prove the anti-vaccinationists wrong?
16	example, is considerably less than the risk from	<sup>16</sup> A Because there are so many people, as you
17		<sup>17</sup> can see on the web, who have these beliefs about
18	disease, but people don't necessarily understand	can see on the web, who have these benefits about
	that. It's similar to the situation where people	vaccines. And as we have discussed throughout this
19	may not fly, but they're willing to drive in cars	iong day, it would be valuable to have more safety
20	where the risks are much higher.	<sup>20</sup> data.
21	And what was the second point about?	<sup>21</sup> Q Like a vaccinated versus unvaccinated
22	Q Public health issues.	<sup>22</sup> study, correct?
23	A Public health issues, yes. Not	<sup>23</sup> A If such a study is feasible.
24	understanding the importance of high vaccination	<sup>24</sup> Q Shouldn't vaccine safety studies be done
25	coverage in prevention of disease.	<sup>25</sup> for the sake of making vaccines safer, not for the
	Page 360	Page 361
	rage 500	
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	purpose and with the pre-determined objective of	<sup>2</sup> as soon as I can buy it.
3	proving so-called anti-vaccinationists wrong?	<sup>3</sup> Q Have you received a PCV13 vaccine?
4	A Well, absolutely. I do not deny that	<sup>4</sup> A Yes.
	Wen, absolutely. I do not delly that	- A 105.
5	there are known reactions to vaccines. Fortunately,	<sup>5</sup> Q Have you received a PPSV23 vaccine?
5 6	there are known reactions to vaccines. Fortunately,	11 105.
	there are known reactions to vaccines. Fortunately, they rarely are serious. I support more research on	<ul> <li><sup>5</sup> Q Have you received a PPSV23 vaccine?</li> <li><sup>6</sup> A Yes.</li> </ul>
6	there are known reactions to vaccines. Fortunately, they rarely are serious. I support more research on every aspect of vaccines.	<ul> <li><sup>5</sup> Q Have you received a PPSV23 vaccine?</li> <li><sup>6</sup> A Yes.</li> <li><sup>7</sup> Q Hep B vaccine?</li> </ul>
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	Page 302	Page 5	
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.	
2	Q When is the last time you got a	<sup>2</sup> really not that solid, not that available.	
3	tetanus/diphtheria-containing vaccine?	<sup>3</sup> Q Did you ever experience an adverse vaccir	ne
4	A Within the last ten years. I don't	<sup>4</sup> reaction?	-
5	remember exactly when, but	<sup>5</sup> A Personally.	
6	Q Do you think all adults should be required	<sup>6</sup> Q Yes.	
7	to receive all vaccines on the CDC's adult	$^{7}$ A No.	
8	immunization schedule?	<sup>8</sup> Q Have you ever witnessed someone experie	ence
9	A That's somewhat of a difficult question	<sup>9</sup> an adverse vaccine reaction?	
10	because adults, of course, have the ability to make	$^{10}$ A I've witnessed people fainting after	
11	their own decisions. Tetanus is, is a vaccine that,	<sup>11</sup> vaccination.	
12	how shall I put it? I guess it's a choice whether	<sup>12</sup> Q Anything else?	
13	you're willing to be susceptible to tetanus or not.	<sup>13</sup> A Certainly I've seen people complain of	
14	For pertussis, I think there's	<sup>14</sup> pain at the injection site. And in the rubella	
15	increasing reason that, to say that all adults	<sup>15</sup> days, women complaining of joint pains after	
16	should be vaccinated against pertussis. So it's,	<sup>16</sup> vaccination. I think that's it.	
17	let's say, let's say, open to discussion at this	<sup>17</sup> Q When you say "fainting," after what	
18	point for DTaP anyway.	<sup>18</sup> vaccine was that?	
19	Q You'd support a law that would require	$^{19}$ A Oh, actually that was, that was tetanus,	
20	adults to get the DTaP?	<sup>20</sup> as I recall. It was a high school athlete.	
21	A At this point, 2017 [sic], I wouldn't	<sup>21</sup> Q Do you know anyone that's experienced a	
22	insist on that for all adults. I would insist on it	<sup>22</sup> serious adverse reaction	
23	for children and adolescents. But the data, the	<sup>23</sup> A Personally, no.	
24	reason I say that is because the data showing	<sup>24</sup> Q Did your grandchildren receive the	
25	protection against pertussis in older adults is	<sup>25</sup> hepatitis B vaccine on the first day of life as	
	Page 364	Page 3	165
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	Page 366		Page 367
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	no gun, the chimpanzees; no bullet, the virus; no	2	disputing any connection between
3	shooter, the manufacturer of the vaccine chimpanzee	3	OPV vaccine and AIDS
4	cells; and no motive to use chimp cells or to hide	4	A Yes.
5	the fact, correct?	5	Q correct?
6	A Yeah. I also said the only smoke was	6	Is everything that you wrote in these
7	created by Mr. Hooper.	7	two articles strike that.
8	Q Right. Who is that?	8	Is everything written in the two
9	A He's a British journalist, which puts him	9	articles, Royal Society articles that you submitted,
10	at the lower end of journalism.	10	which are marked as Exhibits 44 and 45, true?
11	MR. SIRI: Mark this.	11	A Well, I certainly hope so.
12	(Exhibit Plaintiff-44 was	12	Q Is that I'm sorry, Dr. Plotkin. Is
13	marked for identification.)	13	that yes?
14	BY MR. SIRI:	14	A Yes. Yes. And I should also add that my
15	Q Dr. Plotkin, I'm going to hand you what's	15	conclusions have been verified by other scientists
16	been marked as Plaintiff's Exhibit 44. And I'm also	16	who now have shown that HIV originated in the 1920s
17	going to hand you what's been marked as Plaintiff's	17	in Cameroon.
18	Exhibit 45.	18	Q At the end of Dr. Plotkin, at the end
19	(Exhibit Plaintiff-45 was	19	of Exhibit 44, the article entitled "Untruths and
20	marked for identification.)	20	Consequences," you state that strike that.
21	BY MR. SIRI:	21	I apologize. I'm sorry, Dr. Plotkin.
22	Q Are these the two papers that you	22	Can you look at Exhibit 45. I'm sorry.
23	submitted to the Royal Society	23	The end of Exhibit 45, it states that
24	A Yes.	24	letters cited in this paper will be deposited in the
25	Q disputing one second, please.	25	library of the College of Physicians of Philadelphia
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	Page 368		Page 369
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1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	or the University of Leuven, L-E-U-V-E-N, correct?	2	Q If they're not publicly available, would
3	A Yes.	4	you provide copies? A Well, I have to ask the College of
4	Q Have you deposited those letters and	4	A Well I have to ask the College of
F	3		
5	papers?	5	Physicians to do that.
б	A I have, yes.	6	Physicians to do that. Q Would you authorize them to release
6 7	<ul><li>A I have, yes.</li><li>Q Okay. When did you deposit all of those</li></ul>	6 7	Physicians to do that. Q Would you authorize them to release copies?
6 7 8	A I have, yes. Q Okay. When did you deposit all of those letters and papers?	6 7 8	Physicians to do that. Q Would you authorize them to release copies? A I'd authorize them, sure.
6 7 8 9	<ul><li>A I have, yes.</li><li>Q Okay. When did you deposit all of those letters and papers?</li><li>A Oh, gosh, probably at least five years ago</li></ul>	6 7 8 9	<ul><li>Physicians to do that.</li><li>Q Would you authorize them to release copies?</li><li>A I'd authorize them, sure.</li><li>Q Okay. If you could please take a look at</li></ul>
6 7 8 9 10	<ul><li>A I have, yes.</li><li>Q Okay. When did you deposit all of those letters and papers?</li><li>A Oh, gosh, probably at least five years ago now.</li></ul>	6 7 8 9 10	Physicians to do that. Q Would you authorize them to release copies? A I'd authorize them, sure. Q Okay. If you could please take a look at the
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A I have, yes.</li> <li>Q Okay. When did you deposit all of those letters and papers?</li> <li>A Oh, gosh, probably at least five years ago now.</li> <li>Q So all of the letters cited in this document are, have been deposited in where?</li> <li>A The College of Physicians of Philadelphia.</li> <li>Q And they're in possession of all of the letters cited in this document?</li> <li>A Well, I believe so. I have to go over the list. But that certainly was my intention, and I believe I have done so.</li> <li>Q Is that publicly available at the University of Philadelphia?</li> <li>A It's a good question. I imagine so. I deposited them there basically so that they could be examined after I'm dead, but</li> </ul>	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Physicians to do that.</li> <li>Q Would you authorize them to release copies?</li> <li>A I'd authorize them, sure.</li> <li>Q Okay. If you could please take a look at the</li> <li>A I'm not sure why you're asking the question. Are you</li> <li>Q I'm asking the question</li> <li>A accusing me of launching AIDS? Or what is the point?</li> <li>Q Absolutely not, Dr. Plotkin. You made a promise in here to deposit papers, and I'm purely asking you if you made that, fulfilled that promise. That's it.</li> <li>A Yes, I did.</li> <li>Q That's all. I'm not accusing you of anything.</li> </ul>

	Page 370		Page 371
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	on papers and documents of the time from my personal	2	were individuals who had not received the oral polio
3	files.	3	vaccine.
4	A Mm-hmm.	4	Q So but in terms of samples that predate
5	Q Have those also been deposited in the	5	1959, have there been any such samples tested for
б	library of Philadelphia?	6	HIV?
7	A No. Certainly not all of them. I have	7	A I have to think about that. I oh,
8	extensive files. I don't throw anything out.	8	well, there have been samples from elsewhere in the
9	Q You still have all of those?	9	world; but from the Belgian Congo
10	A Yes.	10	Q Yeah.
11	Q I assume you don't have an issue sharing	11	A I don't think that any such samples
12	copies of those?	12	have been available.
13	A No. My wife would love to get rid of all	13	Q Are you aware of whether there currently
14	of them. But I don't	14	exists any samples of polio vaccine that was in the
15	Q So you've said that the AIDS/OPV	15	Belgian Congo at any time between 1959 and 1960?
16	hypothesis has been disproven, correct?	16	A Whether the Wistar has kept them or not, I
17	A Yes.	17	don't know. Fortunately, at the time of the Royal
18	Q A few quick questions. Just approximately	18	Society, I was able to go to Wistar and find
19	how many human samples that predate 1959 have been	19	specimens that had been used in the Congo or from
20	tested for HIV?	20	the same lot that had been used in the Congo. But
21	A That predate 1959? I don't know that	21	whether that still exists or not, I have no idea.
22	there are any such samples available. The first	22	Q Well, I'm curious as just, is there any
23	samples that I recall being available were from	23	samples that were actually in the Belgian Congo that
24	1960, and they had already some HIV seropositive	24 25	have been, that you're aware of?
25	individuals. But that was in Leopoldville. They	25	A That were tested?
	Page 372		Page 373
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q That were tested.	2	A Yes.
3	A I don't, really don't know the answer to	3	Q Okay. In the article you're one of the
4	that question. The vaccine that was used, the oral	4	authors of the article?
5	polio vaccine that was used, I believe was entirely	5	A Yes.
б	used up in the vaccination campaign. So I don't	6	Q So on page 2 of this article, it states:
7	think it's likely that material used in the	7	The titer of the vaccine after a day's use was
8	vaccination campaign was repatriated. But	8	checked periodically by sending frozen aliquots
9	fortunately, we had material from the same lots that	9	A Aliquots, yes.
10	were used in the Congo. And that had been retained	10	Q thank you, aliquots, A-L-I-Q-U-O-T-S,
11	at the Wistar.	11	to the Wistar Institute, Philadelphia, Pennsylvania,
12	Q But as far as you're aware, in terms of	12	USA?
13	actual samples, a sample that was actually in the	13	A Yes.
14	Belgian Congo, you're not are you saying you're	14	Q What does that mean?
15	not aware of any such sample?	15	A Well, it means that in order to be sure
16	A No, I am not aware of any such sample.	16	that the vaccine used still contained enough virus,
17	Q Do you know if any such sample ever are	17	they sent back samples to be titered for the
18	you aware of any such sample that existed after	18 19	quantity of virus.
19 20	1960?	20	Q So they sent back samples of the oral
20	A I don't I'm not aware that anything	20	polio
22	existed. Q So are you familiar with an article	22	A Yes. Q being used
23	entitled "Vaccination with the CHAT Strain of Type 1	23	Q being used A Yes.
24	Attenuated Poliomyelitis Virus in Leopoldville,	24	Q in the Belgian Congo?
25	Belgian Congo"?	25	A Yes.

1       Stanley Plotkin, M.D.       1       Stanley Plotkin, M.D.         2       Q And they did that periodically?       2       curry any human cells, such as WISH or WI-1, or polio vaccines grown in such human cells to the Belgian Congo?         4       Q But to your knowledge, none of those survived after 1560°       A No. A tleast I certainly have not.         6       A No. I think they ware tested and then discaled for 1960°       A No. A tleast I certainly have not.         7       A No. I think they ware of any such -       A No. A tleast I certainly have not.         8       discarded.       Q No and not aware.         9       Q I would have bad any value because they wrould have been discarded.       No. I think they would have been, yes. But at the time nohower saved, right?         10       have been discarded.       No. I think they would have been, yes. But at the time nohower saved, right?       A No that In aware of non aware of them being carried or used there, right?         11       A I doub in.       P O No you think such a sample will ever be to base of from disease, they may still become infected with where i could be?       A Not that In aware of any be protected from disease, they may still become infected with where i could be. No.         12       A I doub in.       Page 376       Yes.         13       A Weif statics, NuD.       1       Stanley Plotkin, MD.         14       Q U ast question on this topic and well move		Page 374		Page 375
2       Q And they did that periodically?       2       carry any human cells, such as WLRI or WI-1, or polio vaccines grown in such human cells to the         3       A Yes.       9       But to your knowledge, none of those survived after 1960?       A No. A I that they were tested and then they could have had no value because they were used inserted.       6       Q Are you aware of any such -       A No. A I test I certainly have not.         7       discarded.       Team, they, aside from legal value, they could not ver be used again. So they would have been of auxed in the congo. If they had been, it would have been, yes. But at the time nobody though about that.       7       A No, Tu mot aware of funce cells heing carried to the Congo. If they had been, it would have been sevel, right?         4       No fun the aware of, no.       9       I would have been, yes. But at the time nobody though about that.         13       A I fuodot it.       10       So you're not aware of funce in they had been they carried or used there, right?         4       A Difficult to say. I mean, the laboratory in Stanley Vile an out have set and pub protected from disease, they may still become infected with the tabacons are the would probably the best surrogates for humans, right?       A Yes.         2       A Yes.       Q Because you couldn't ethically expose humans to pertussis, correct?       A Yes.         4       Q Because you couldn't ethically pertussis in adults. That's hee nshow. So a significant proportion of adults are susceptible adult population in the United States you	1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
3       A Yes.       3       polio vaccines grown in such human cells to the         4       Q But to your knowledge, none of those       5         5       survived after 1960?       5         6       A No. I think they were tested and then       6         6       discarded.       Q         7       A No. I think they would have bad no value because they were used;       6         8       Q       a No. I an not aware.       Q         9       I would have been discarded.       7         11       A It would have been, yes. But at the time       11         12       A It would have been, yes. But at the time       11         13       A It would have been, yes. But at the time       11         14       nohody thought about that.       14         25       Q If any, if such a sample were to have       15         36       survice secker. digit?       17         37       A Difficult to say. I mean, the laboratory       18         26       Do you think such a sample will ever be       10         27       I caudetsion on this topic and we'll move       10         28       Do you think such a sample will ever be       10         29       Do you think such a sample will ever be <t< td=""><td>2</td><td>•</td><td>2</td><td>•</td></t<>	2	•	2	•
4     Q. But to your knowledge, none of those     4       5     survived after 1960?     A. No. At least Leertainly have not.       6     A. No. I think they were tested and then     6       7     discarded. I mean, they, aside from legal value,     7       8     hey would have had no value because they were used     Q. Are you aware of any such       7     discarded. I mean, they, aside from legal value,     7       8     A. No. It mout aware of they could not very be used again. So they would     7       10     have been discarded.     7       11     P. It would have been, yes. But at the time     7       12     Q. It would be belpful for you if some of     11       13     A. It would have been, yes. But at the time     7       14     nobody thought about that.     7       15     g. If may, if such a sample ver to have     7       16     survived someplace on the planet, where would you     7       17     think that would be?     7       18     No. Think an acclulable?     9       19     in Stanleyvile no longer exists. Thave no idea     7       21     Q. Do you think such a sample will ever be     7       22     in active to the planet, where would you     7       23     A. I doubt it.     7       24 <td>3</td> <td></td> <td>3</td> <td>• •</td>	3		3	• •
5       survived after 1960?       5       A. No. A thast least learning hysen on.         6       A. No. I think they were tested on then discarded.       7       A. No. A no, I am not aware.         9       they would have had no value because they would have hean discarded.       7       A. No, Tim not aware of those cells being carried to the Congo. If they had been, it would have been, its would have beave enthave been, its would have been, its	4		4	
6       A. No. 1 think they were tested and then       6       Q. Are you aware of any such         7       discarded. I mean, they, saide from legal value, they would have hat no value because they were used again. So they would       9         9       they could not ver to used again. So they would       9         10       Q. I would be helpful for you if some of       9         11       Q. It would be helpful for you if some of       10         12       those were saved, right?       20         3       A. It would have been, yes. But at the time nobody though tabout that.       10         14       mobody though tabout that.       11         15       Q. If my, if such a sample were to have       16         16       survived someplace on the planet, where would you think that would be?       17         17       think that would be?       17         18       A. I floubt it.       18         21       Q. Do you think such a sample will ever be       12         22       located?       23         3       A. I doubt it.       24         24       Q. We discussed carlier that the baboons are       14         4       Page 377       25       A. Yes.         25       A. Yes.       24       Yes.	5		5	5 5
7       discarded. I mean, they, aside from legal value, between discarded.       7       A No, Tm not aware.' Qvaccines being'         9       A No, Tm not aware.' Qvaccines being'       9         10       have been discarded.       10         11       Q It would have beag agin. So they would those were saved, right?       11         12       A It would have been, yes. But at the time nobody thought about that.       12         13       A It would have been, yes. But at the time nobody thought about that.       12         14       no tell and as ample were to have survived someplace on the planet, where would you it in Stanley ville no longer exists. I have no idea where it could be. No.       20       O. It it would be PDA amounced, quote: Although individuals immunized with an accillular pertussis vaccine may be protected from disease, they may still become infected with the bacteria without always getting sick and are able to spread infection to others, end quote?         12       Last question on this topic and we'll move 23       24       Q That's the Warfel study?         24       Q We discussed earlier that the baboons are they would probably be the best surrogates for humans, right?       1       Stanley Plotkin, M.D.         2       Q So the Warfel studies, the one in 2014 and 2016, which were conducted by the FDA, 2014 and 2016, which were conducted by the FDA, 2014 and 2016, which were conducted by the FDA, 2014 and 2016, which were conducted by the FDA, 2015 A Yes.       1       Nouthink the immunity 2014 an			6	
*       they would have had no value because they were used;       *       Q      vaccines being	7	-	7	
9     they could not ver be used again. So they would     9     A No, I'm not awar of those cells being       10     Q It would be beliful for you if some of     11       12     It would have been (rescarded.     12       13     A It would have been, yes. But at the time     13       14     nobody thought about that.     13       15     Q If any, if such a sample were to have     14       16     survived someplace on the planet, where would you     15       17     think that would be?     16       18     A Difficult to say. I mean, the laboratory     16       19     in Stanleyville no longer exists. I have no idea     16       20     Do you think such a sample will ever be     22       10     Do you think such a sample will ever be     22       10     Do you think such a sample will ever be     22       11     A I doubt it.     22       12     Stanley Plotkin, M.D.     24       23     A I doubt it.     24       24     Q We discussed carlier that the baboons are     25       4     burmans, right?     14       5     A Yes.     14       6     Q So the Warfel studies, the one in       16     Q So the Warfel studies, the one in       17     Stanley Plotkin, M.D.	8	· ·	8	
10       have been discarded.       10       carried to the Congo. If they had been, it would         11       Q It would be helpful for you if some of       11       have been for experimental purposes, certainly not         13       A It would have been, yes. But at the time       12       for vaccination purposes.         14       nobody thought about that.       12       for vaccination purposes.         15       Q If any, if such a sample were to have       13       A Not that would be?         16       survived someplace on the planet, where would you       14       nanounced, quote: Althought individuals immunized         16       within that would be?       17       announced, quote: Althought individuals immunized         17       announced, quote: Althought individuals immunized       10       from disease, they may still become infected with         18       A I doubt it.       21       Q Do you think such a sample will ever be       12       from disease, they may still become infected with         19       in tabous.       24       Q That's the Warfel study?       24         24       Q Last question on this topic and we'll move       24       Yes.       Yes.         24       Q Because you couldn't chically expose       14       But judging from the frequency of       Freussis in aduls., I don't think immunity			9	
11       Q It would be helpful for you if some of       11       have been for experimental purposes, certainly not         12       those were saved, right?       13       A It would have been, yes. But at the time       13         14       nobody thought about that.       14       14       7         15       Q If any, if such a sample were to have       15       A Not that I'm aware of, no.       Q Isn't it rue that in 2014, the FDA         16       survived someplace on the planet, where would you       16       Q Isn't it rue that in 2014, the FDA         17       think that would be?       17       announced, quote: Although individuals immunized         18       A Difficult to say. I mean, the laboratory       18       announced, quote: Although individuals immunized         19       in Stanley ville to ispecial infection to others, end quote?       2       a Yes.       2         21       Q Do you think such a sample will ever be       22       a Yes.       2       A Yes.       2         22       located?       A I doubt it.       23       A Iso you or any of your Wistar colleagues ever       25       A Yes.       26       Q That's the Warfel study?       27         1       Stanley Plotkin, M.D.       1       Stanley Plotkin, M.D.       1       30       30       30 <t< td=""><td></td><td></td><td></td><td>e e</td></t<>				e e
12       those were saved, right?       12       for vaccination purposes.         13       A It would have been, yes. But at the time       13       Q So you're not aware of them being carried         13       Q If any, if such a sample were to have       14       0       Q So you're not aware of them being carried         14       nobody thonght about that.       14       A Not that I'm aware of no.       14         15       survived someplace on the planet, where would you       15       A Not that I'm aware of no.       16         16       survived someplace on the planet, where would you       16       Q Isn't true that in 2014, the FDA         16       announced, quote: Although individuals immunized       with an acellular pertussis vaccine may be protected         16       Q Do you think such a sample will ever be       10       10       10         12       located?       22       A Yes.       A Yes.       23         14       J doubit it.       23       a I doubit it.       23       a Yes.       24       Q Last question on this topic and we'll move       25       A Yes.       26       That's the Warfel studies       34       baboons.       2         14       Stanley Plotkin, M.D.       14       Stanley Plotkin, M.D.       2       Yes.       35			11	- ·
13       A It would have been, yes. But at the time       13       Q So you're not aware of them being carried         14       nobody though about that.       14       or used there, right?         15       Q If any, if such a sample were to have       15       A N that IT aware of, no.         16       survived someplace on the planet, where would you       16       A N that IT aware of, no.         17       think that would be?       16       Q Isn't it true that in 2014, the FDA         18       A Difficult to say. I mean, the laboratory       18       with an acellular pertussis vaccine may be protected         19       in Stanleyville no longer exists. I have no idea       10       with an acellular pertussis vaccine may be protected         21       Q Do you think such a sample will ever be       21       able to special infection to others, end quote?         22       Iocated?       22       A Yes. That's on the basis of the studies       in aboons.         23       A I doubt it.       23       A Yes.       Page 376         24       Q We discussed earlier that the baboons are       1       Stanley Plotkin, M.D.       2         2       A Yes.       5       A Yes.       Bu judging from the frequency of       pertussis, correct?       7         4       M Yes.       9 <td< td=""><td>12</td><td></td><td></td><td></td></td<>	12			
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	Page 378		Page 379
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A I don't think so.	2	inferences from scientific data.
3	Q Okay. The diphtheria vaccine creates	3	Q If somebody were opposed to vaccines
4	antibodies only to a toxin released by the	4	because they believed there was insufficient data
5	diphtheria bacteria, correct?	5	for them to make a decision about the actual risks,
6	A Correct.	6	not the benefits, but the risks, would you consider
7	Q It doesn't create any antibodies to the	7	that person an anti-vaxxer?
8	actual diphtheria bacteria itself?	8	A If they refused to be vaccinated
9	A Yes, that's true. But it is also true,	9	themselves or refused to have their children
10	certainly appears to be true, that if the organism	10	vaccinated, I would call them an anti-vaccination
11	can't produce a toxin, it has a great difficulty in	11	person, yes.
12	surviving. And so the observation is that where the	12	Q Is there anybody who could refuse a
13	vaccine is used, the organism disappears. So it's	13	vaccine who you would not label anti-vaxxer?
14	very difficult to find it in the U.S., for example.	14	A Yes. If there are individuals who are
15	But in Russia where vaccination has not been always	15	
16	•	16	immunosuppressed, for example, and, therefore, have a contraindication to certain vaccines, that to me
17	complete, there are still cases of diphtheria.	17	,
18	Q Can you, how do you define	18	would be a reasonable decision on their part.
19	anti-vaccinationists or anti-vaxxers, as you've used	19	Q But, otherwise, you believe that anybody
	them here today?		else who refuses a vaccine is doing so based on
20	A How do I define them?	20	misinformation?
21	Q Yeah. What does that mean to you? You	21	A Generally speaking, yes. Now, as I said
22	use those terms, and I'm just, I'm actually not	22	before, I can imagine an adult deciding that they
23	exactly sure what you mean by that.	23	don't want the advantages of vaccination out of, for
24	A People opposed to vaccination for a	24	whatever reason.
25	variety of reasons, some of which are based on false	25	I think the situation for children is
	Page 380		Page 381
1		1	
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Stanley Plotkin, M.D. quite different because one is making a decision for	2	Stanley Plotkin, M.D. A Yes.
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2	hygiene and sewage, et cetera, are good, the	2	Q Okay. And in terms of efficacy, does IPV
3	possibility of transmitting from an IPV vaccinee is	3	vaccination as in childhood last a lifetime?
4	much less than it is, let's say, in Africa where	4	A You know, that's an interesting question,
5	sewage contamination is great.	5	and I think the answer is yes. Studies that have
6	Q When you say nasopharynx, what is that?	6	been done have shown quite good persistence of
7	A The throat.	7	antibody after IPV. Now, does it last forever? I
8	Q So you're saying IPV does create immunity	8	can't say that, but certainly lasts a long time.
9	within the throat?	9	Q How about 30 years after vaccination; what
10	A Yes.	10	do you think the efficacy is approximately?
11	Q There are studies that show that?	11	A I would just be totally speculating, but I
12	A Yes, absolutely.	12	think most people would still be protected because
13	Q Okay. How do those studies make that	13	you don't need much antibody against polio to be
14	determination?	14	protected. Levels of dilutions of one to four, one
15	A Well, by culturing people who are exposed	15	to eight are probably protective.
16	to polio, who have had IPV, and also by showing that	16	Q But you're not sure?
17	antibody diffuses into the throat much better than	17	A I'm not sure about 30 years. I'm sure
18	it does into the gut.	18	about the levels that are protective.
19	Q In the Warfel study I'm sorry. Strike	19	Q Thirty years, you're not sure about what
20	that.	20	percent of the people vaccinated are still immune to
21	Do you know the names of those	21	polio?
22	studies, by any chance?	22	A No. But I do know that that persistence
23	A Gosh, again, they're in the book.	23	is good and that the likelihood is that most people,
24	Q Are they in your book?	24	even 30 years, will still be protected.
25	A Yes, absolutely.	25	Q Forty years?
	Page 384		Page 385
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
		-	Stanley Flotkin, M.D.
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	Page 386	Page 387
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	as a study done 20 years later.	<sup>2</sup> Q If the CDC Pink Book said that it was four
3	But certainly studies done sometime	<sup>3</sup> cases of tetanus per million, would you dispute
4	after vaccination have shown good persistence of	<sup>4</sup> that?
5	antibodies. And once again, you don't need a whole	$^{5}$ A I'll accept that.
б	lot of antibody to prevent you from getting measles.	<sup>6</sup> Q You do accept that. And that's just the
7	Q Do you know a percentage?	<ul> <li><sup>7</sup> number of cases, not deaths, right?</li> </ul>
8	A Of?	<sup>8</sup> A Yes.
9	Q Of people that are still immune 20 years	<sup>9</sup> Q And you think it's a public health
10	out from the measles vaccine?	<sup>10</sup> imperative for people to be vaccinated against
11	A Not off the top of my head, but I feel	<sup>11</sup> tetanus, correct?
12	relatively sure that it's quite high.	$^{12}$ A I think it's the wise thing to do if you
13	Q Is it important to get a tetanus vaccine?	<sup>13</sup> don't want to be under risk of getting tetanus if
14	A Well, it's important if you don't want to	<sup>14</sup> you have an injury.
15	get tetanus, yes.	$^{15}$ Q To prevent something that was a few cases
16	Q The tetanus vaccine was introduced into	<sup>16</sup> in a million, correct?
17	routine child schedule in the late 1940s, correct?	<sup>17</sup> A Yes. But a deadly disease.
18	A Yes.	<sup>18</sup> Q Do we know whether the tetanus vaccine
19	Q When the tetanus vaccine was introduced	<sup>19</sup> causes more or less than a few cases of serious
20	there were only about four cases of tetanus per	<sup>20</sup> adverse reactions after vaccination?
21	million people, correct?	<sup>21</sup> A I don't believe it causes a whole lot of
22	A If you say so. I don't remember.	<ul> <li><sup>22</sup> serious reactions, no.</li> </ul>
23	Q Are you familiar with what, the CDC Pink	<sup>23</sup> Q I'm going to show you what's
24	Book?	<sup>24</sup> MS. NIEUSMA: Do you know how much longer
25	A Yes.	<sup>25</sup> we have to go? Just so I have an idea.
	A 105.	we have to go. Just so I have an idea.
	Dama 300	Daga 280
	Page 388	Page 389
1		
1 2	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
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	Page 390	Page 391
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
2	correct?	<sup>2</sup> reported. But I, I cannot confirm that.
3	A Yeah.	<sup>3</sup> (Exhibit Plaintiff-47 was
4	Q That would be about an average of 125 per	<sup>4</sup> marked for identification.)
5	year, right?	<sup>5</sup> BY MR. SIRI:
6	A Yes.	<sup>6</sup> Q Dr. Plotkin, I'm going to show you what's
7	Q So, but we don't, because these are just	<sup>7</sup> been marked as Plaintiff's Exhibit 47. This is a
8	reports and not done in some kind of randomized,	<sup>8</sup> report entitled "Electronic Support for Public
9	controlled study, we don't actually know whether or	<sup>9</sup> Health - Vaccine Adverse Events Reporting System,"
10	not the tetanus vaccine is causing these deaths and	<sup>10</sup> correct?
11	permanent disabilities, correct?	<sup>11</sup> Let me know when you're ready,
12	A Correct.	<sup>12</sup> Dr. Plotkin.
13	Q Okay. But it's possible it could be,	<sup>13</sup> A I'm ready.
14	correct?	<sup>14</sup> Q The title of this report, Dr. Plotkin, is
15	A It's, anything is possible, yes.	<sup>15</sup> "Electronic Support for Public Health - Vaccine
16	Q Don't you think a study should be done to	<sup>16</sup> Adverse Event Reporting System," correct?
17	determine strike that. Strike that.	<sup>17</sup> A Yes.
18	Isn't it true that VAERS only	<sup>18</sup> Q And this was a study conducted by Harvard
19	receives a tiny fraction of the reportable adverse	<sup>19</sup> Medical School and the Harvard Pilgrim Healthcare,
20	events after vaccination?	<sup>20</sup> correct?
21	A Well, I can't give you a percentage, but	<sup>21</sup> A Yes.
22	all physicians are asked to report putative	<sup>22</sup> Q And it was are done via a grant from an
23	reactions to the VAERS system. So I don't think the	<sup>23</sup> agency within HHS, correct?
24	VAERS system covers a tiny portion of alleged	<sup>24</sup> A Yes.
25	reactions. I think, rather, probably most are	<sup>25</sup> Q And the purpose of this study was to
	Page 392	Page 393
1	Stanley Plotkin, M.D.	<sup>1</sup> Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. attempt to automate VAERS reporting?	<ol> <li>Stanley Plotkin, M.D.</li> <li>Q So about 376,000 individuals received a</li> </ol>
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	Page 394		Page 395
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	Q We don't know.		so that those reports could continue to be
3	Assuming that each individual only		pomitted, correct?
4	had one vaccine reaction, then 10 percent of the		A Yes.
5	individuals would have had a vaccine reaction?	_	Q But the CDC wouldn't cooperate with them,
6	A Mm-hmm. Yes.		rrect?
7	Q All right. So, now, at the beginning of	7	A Well, I have no idea whether that's true
8	this study, the CDC was cooperating with these grant	<sup>8</sup> or	not.
9	participants, correct grant recipients, correct?		Q On page 5, Dr. Plotkin, at the end of the
10	A Yes.		cond paragraph, it says: Real does it say:
11	Q And they helped define what is an adverse		al data transmission of nonphysician-approved
12	reaction, right?		ports to the CDC were unable to commence by the
13	A Yes.	-	d of this as by the end of this project, the
14	Q And they helped define the algorithms to		DC had yet to respond to multiple requests to
15	use, right?		rtner for this activity?
16	A Yes.	16	Is that what it says?
17	Q And they also helped to define what	17	A That's what it says.
18	reports should be excluded, correct?	18	Q Okay. So, and this study says that less
19	A I guess so.		in 1 percent of adverse events are reported to
20	Q What events, I'm sorry, should be excluded	20 VA	AERS, right?
21	from being considered, you know, reportable, right?	21	A Well, I have to check that, but I think
22	A Yes.	<sup>22</sup> tha	it's correct.
23	Q After, however, they collected this data	23	Q Okay. Are you aware that there are other,
24	and they generated these 35,000 reports, they then	<sup>24</sup> oth	her governmental reports that make similar
25	wanted to submit those reports to VAERS and automate	<sup>25</sup> est	imates for VAERS?
	5 200		
	Page 396		Page 397
1	Stanley Plotkin, M.D.	1	Page 397 Stanley Plotkin, M.D.
1 2	Stanley Plotkin, M.D. A I'm aware that not everything is reported		
	Stanley Plotkin, M.D. A I'm aware that not everything is reported to VAERS, yes.	2	Stanley Plotkin, M.D.
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2 3 4 5	Stanley Plotkin, M.D. A I'm aware that not everything is reported to VAERS, yes. Q Are you aware that governmental reports show that, that governmental reports like this one	2 3 exh 4	Stanley Plotkin, M.D. Q Let me show you, I think, one final hibit.
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	Page 398		Page 399
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A Yes.	2	protocol was scientifically valid, yes, I would
3	Q And that's only since January of 2016,	3	support such a study. I don't really put much faith
4	correct?	4	into the VAERS system for a number of reasons, some
5	A Yes.	5	of which you've cited.
6	Q If that's only, if that's a full	6	I take much more, I put much more
7	1 percent, then that would be 75,000	7	confidence in the vaccine safety data, data which
8	life-threatening reactions that would have been	8	are better controlled and which come from
9	reported, correct?	9	institutions that see large numbers of patients.
10	A That's the arithmetic, yes.	10	Q Would you work to support such a study?
11	Q That's the kind of event that would happen	11	A Again, if such a study were scientifically
12	pretty soon after vaccination, correct?	12	feasible, I would support it, yes.
13	A Well, events that happen after	13	Q Don't you want to know what the results of
14	vaccination, yes	14	that study show?
15	Q Okay.	15	A If the study is done, yes, of course.
16	A but not necessarily because of	16	Q In terms of the Vaccine Safety Datalink
17	vaccination.	17	which you just mentioned, that's not available to
18	Q But until a properly controlled saline	18	the public, correct?
19	placebo study is actually done or strike that.	19	A I think they publicly report in the
20	Until we compare the total health	20	scientific literature
21	outcomes strike that.	21	Q If independent researchers want to get
22	Would you support a study that	22	access to the VSD while
23	compared total health outcomes between vaccinated	23	A I, I don't know what the circumstances are
24	and unvaccinated children, Dr. Plotkin?	24	regarding access to data.
25	A Will I support such a study? Yes. If the	25	Q Well, then I won't
	Page 400		Page 401
1	Stanley Plotkin, M.D.	1	Stanley Plotkin, M.D.
2	A I simply don't know.	2	MS. NIEUSMA: All right.
3	Q I won't ask you questions about that, if	3	VIDEO OPERATOR: This ends disc five. It
4	you don't know it.	4	concludes the deposition of Dr. Stanley
5	VIDEO OPERATOR: Two minutes.	5	Plotkin. We are going off the record. The
6	MR. SIRI: Okay. Well, I am, I'm done	6	time is 18:43.
7	with my questioning. And I will, if opposing	7	COURT REPORTER: Ms. Nieusma, do you need
8	counsel intends to ask any questions, then I	8	a copy of today's transcript?
9	reserve to ask some rebuttal questions as well.	9	MS. NIEUSMA: I do not.
10	But, otherwise, I'm done with my questioning	10	COURT REPORTER: Is the witness going to
11	for today.	11	read and sign?
12	MS. NIEUSMA: You know what? If	12	MS. NIEUSMA: He certainly can. It's
13	Dr. Plotkin is going to testify, I'm going to	13	generally not something we do around here. But
14	have him here in Michigan, so I'm not concerned	14	he can do it if anybody wants him to.
15	about it. Let's just call it a day.	15	(Discussion off the record.)
16	Dr. Plotkin, I'll give you a call tomorrow	16	MR. SIRI: I'll talk to you after.
17	if you're available for a quick phone call.	17	(Witness excused.)
18	THE WITNESS: Actually, no. I'll be in a	18	(Deposition concluded at 6:42 p.m.)
19	meeting in Philadelphia, but I will be	19	
20	available on Monday.	20	Witness Signature
21	MS. NIEUSMA: Perfect. I will call you on	21	
22	Monday.	22	
23		23	
	THE WITNESS: Okay.		
24	COURT REPORTER: Counsel, don't hang up,	24	
	÷		

	D 400	D 400
	Page 402	Page 403
2	CERTIFICATE	1 ERRATA SHEET
3 4		<sup>2</sup> Case Name: <sup>3</sup> Deposition Date:
4 5	COMMONWEALTH OF PENNSYLVANIA :	<ul> <li><sup>3</sup> Deposition Date:</li> <li><sup>4</sup> Deponent:</li> </ul>
6	COUNTY OF PHILADELPHIA :	<sup>5</sup> Pg. No. Now Reads Should Read Reason
7		6
8		7
9	I, MAUREEN BRODERICK, Registered	8
10	Professional Reporter - Notary Public, within and	9
11 12	for the Commonwealth of Pennsylvania, do hereby	10
13	certify that the proceedings, evidence, and objections noted are contained fully and accurately	12
14	in the notes taken by me of the preceding	
15	deposition, and that this copy is a correct	14
16	transcript of the same.	15
17	-	16
18		17
19 20		
20		19
21		
	MAUREEN BRODERICK	21
22		Signature of Deponent
	Registered Professional	22
23		SUBSCRIBED AND SWORN BEFORE ME
24	Reporter - Notary Public	<sup>23</sup> THIS DAY OF, 2018.
25	Dated: January 16th, 2018	<ul> <li>24</li> <li>25 (Notary Public) MY COMMISSION EXPIRES:</li> </ul>
	Duca. Valuary Toli, 2010	

				Page I
	I	I	I	I
Α	139:11 205:6,6	access (2)	act (7)	91:8
\$182 (2)	242:19 243:21,25	399:22,24	114:22 118:9,9 125:5	adjuvant (9)
65:4 67:6	266:6,11 288:21	accomplishment (1)	125:8 183:12 255:4	7:13,17 187:10
\$20 (2)	346:12 348:22	221:13	ActHIB (6)	194:13,21 201:8
262:21 263:9	371:18 375:21	accomplishments (1)	5:10 177:21 178:5	293:16 309:4 336:7
\$3,757,924 (1)	396:22	50:21	179:3 183:14,18	adjuvantation (1)
	abnormalities (2)	account (5)	acting (1)	85:23
50:2	12:10,15	105:5 143:25 148:6	140:2	adjuvants (20)
<b>\$30 (2)</b>	aborted (11)	255:20 268:23	action (5)	6:24 91:11 187:2
104:7,17	322:22 323:4,8,9	accountant (3)	4:16 71:14 72:10 73:7	189:13 190:14,16
<b>\$45</b> (2)	324:15,17 343:7,13	38:21 41:14 263:4	139:14	190:25 193:16
70:12,22	345:4,8,17	accounting (1)	activation (8)	194:6,23 292:10,13
<b>\$6 (3)</b>	abortion (3)	43:11	301:21 303:15 304:3	293:2,5 306:14,18
67:22 68:4,7	12:5 346:6,13			306:22 307:2,8,12
A-B-C-O-M-B-I (1)		accrued (1)	304:7,13,17,17,21	
92:7	abortions (1)	255:8	active (4)	administer (2)
A-containing (1)	346:15	accumulate (1)	100:9 103:6 158:18	58:23 123:24
311:22	absence (14)	181:2	188:17	administered (7)
A-D-J-U-V-A-N-C	27:19 144:25 236:17	accumulation (1)	activity (1)	115:16 124:19 151:7
91:9	244:6 246:16,18	207:25	395:15	160:8 209:12 240:2
A-L-B-U-M-I-N (1)	247:22 249:6	accurate (3)	actual (6)	364:10
327:7	251:23,25 252:6	104:21 121:4 196:15	98:25 207:24 328:16	administers (1)
A-L-I-Q-U-O-T-S (1)	253:7 279:14,24	accurately (1)	372:13 378:8 379:5	264:18
373:10	absent (3)	402:13	acute (7)	administration (12)
A-N-N-E-C-Y (1)	27:12 268:20 269:11	accusing (2)	206:20 210:8,11,14	101:12 109:24,25
23:12	absolute (2)	369:14,21	211:21 220:10,21	110:21 114:2
A-X-Y-N (1)	170:25 192:12	acellular (14)	add (5)	127:19 144:25
90:20	absolutely (20)	93:21 94:3 96:16,23	124:11 186:11 206:22	158:10 159:20
	58:24 66:24 123:25	100:7,10,18 101:22	294:3 367:14	242:12 243:18
a.m (1)	172:4,12 175:2,6,14	102:20 240:24	added (4)	289:24
2:3	175:20 193:24	242:14 243:2	81:11 123:18 124:14	administrative (4)
Aaby (8)	255:25 274:5 283:6	375:18 376:15	188:14	49:2 54:11 83:7,11
143:15,16,25 144:2	286:3 320:16	acids (1)	addition (2)	adolescent (1)
256:21 282:10,13	357:25 360:4	337:13	123:14 222:2	31:13
287:5	369:16 382:12,25	ACIP (38)	additional (2)	adolescents (7)
Aaby's (5)	absorbed (1)	111:4,8,9,13,14 112:6	156:13 281:14	5:16 94:7 96:25 97:4
144:2 145:24 147:12	295:2			98:2 197:19 362:23
282:19 285:2		114:8 123:15,17	address (2)	
AAH (3)	Absorption (1)	124:3,11,24 125:21	222:14 272:12	adopt (1)
186:23 196:25 198:17	6:23	125:24 126:11,16	addressed (1)	252:14
AAHS (12)	abstract (5)	127:2,14,15,16	306:5	adopted (1)
185:15,19 186:2,6,16	279:4,8,10,18 280:17	130:6,15 131:4,21	addresses (1)	123:20
186:25 187:9,13	abundant (1)	131:22 132:6,12,16	178:9	adult (10)
197:3 199:18	256:23	132:21,25 133:6,19	addressing (1)	32:3,4 203:22 210:17
201:18,25	academia (1)	134:3,17 135:19	225:5	221:2 362:7 377:9
AAP (1)	107:4	136:6 359:6,7	adequate (1)	379:22 380:5,6
73:19	Academy (4)	acknowledgments (1)	230:3	adults (42)
Aaron (2)	73:11 114:14,17	228:3	ADHD (1)	32:5 74:14 98:10,18
3:5 10:23	116:20	acquainted (1)	277:4	98:22 99:9 151:7
Abcombi (1)	accept (7)	136:14	adjectives (2)	155:25 156:3
92:7	154:10 234:21 242:24	acquire (1)	207:8 274:24	162:24 209:25
ability (4)	267:23 358:4 387:5	57:25	adjudicated (1)	210:10,14 212:18
14:11 303:11 362:10	387:6	acquires (1)	117:22	220:17 223:9,12,15
	acceptable (1)	64:11	adjudicates (1)	223:20 224:7,13,17
376:15	144:10	acronym (1)	115:10	224:19,22,24 225:7
able (22)	acceptance (5)	112:20	adjunct (1)	225:14 348:23
43:8 119:13,16	147:8 189:17 229:7	acronyms (1)	83:16	349:22,24 362:6,10
134:15,20 137:10	235:4,8	108:21	Adjuvance (1)	362:15,20,22,25
137:22 138:4	200.7,0	100.21	Aujuvallee (1)	502.15,20,22,25
	1	1	1	1

				Iuge z
276.01 277.2 5 6 17	87:25	254:24 255:3 278:8	220.2 227.0 220.5	151:17
376:21 377:3,5,6,17 377:18		254:24 255:5 278:8 286:22	328:3 337:9 338:5	
advanced (2)	advocating (1) 88:8	agreed (1)	338:11,18 339:14 339:19,23 340:3,5	<b>anaphylaxis (1)</b> 229:11
23:7 25:8	aegis (1)	51:6	Aluminium (1)	ancient (1)
advantages (1)	24:8	agreement (1)	8:5	138:20
379:23	24:8 affect (1)	193:22	aluminum (67)	Angell (1)
adversarial (2)	14:11	ahead (6)	7:4,17 187:2,4,10,18	106:25
117:16,17	affiliate (1)	161:4,5 198:19	187:20 188:2,14	animal (8)
adversary (1)	70:11	269:20 314:7,8	187.20 188.2,14	100:13,15 292:15
116:22	affiliated (1)	AIDS (4)	194:6,10,13 195:2,8	293:3 306:18
adverse (72)	55:14	365:20,24 367:3	194.0,10,13 195.2,8	314:11 320:3
5:19,21,23 6:4,18,21	affiliation (14)	369:14	200:23 201:8	332:17
150:3,13 151:12,13	23:23 46:25 86:10,23	AIDS/OPV (1)	200:23 201:8	animals (5)
153:23 154:25	87:17 88:21,24	370:15	292:10,12,14 293:2	100:22 292:10 302:20
156:14 157:18	89:10,12,19 90:8	Alan (1)	293:16 294:13,15	302:25,25
167:23 168:16	91:17 92:4 93:11	51:6	294:21 295:17,22	Ann (2)
170:13 176:20	affiliations (1)	albumin (12)	296:19,20,24	1:5 10:9
177:7 179:5,8 180:2	84:23	325:3,5,6 327:4,6,17	297:19 299:12,13	Annecy (2)
180:11,21,25 181:6	afford (1)	327:19,24 338:4,8	299:23,24 300:6,13	23:8,10
181:23 182:3,8,13	124:3	339:7,13	300:21,25 301:18	announced (2)
197:23 198:3,12	Africa (5)	algorithms (1)	304:24 306:13,18	70:9 375:17
205:9 207:11	284:2,24 288:3	394:14	306:21 307:2,8,12	annually (1)
214:10,10,22	361:19 382:4	aliquots (3)	308:3,6,8 309:4,22	29:2
217:17,25 224:10	African (3)	373:8,9,10	310:6,12,18 326:20	answer (33)
225:3 227:16 229:2	6:16 283:20 285:18	alive (2)	336:17,22	14:2,5 39:10 46:10,12
230:4,18 239:17	AG (3)	170:20 314:11	Aluminum-Based (1)	55:3 56:11 73:16
247:5 263:17	89:3 90:19,20	Allegations (1)	7:13	74:15,16 75:20 95:8
289:13,20 290:4,20	age (19)	8:19	Aluminum-Contain	135:6 137:13
311:24 312:6,11,17	28:11 34:20,22 35:16	alleged (3)	6:23	141:16 195:16
363:3,9,22 387:20	35:20 97:4 164:12	213:18 237:15 390:24	America (4)	196:17 215:3 226:7
388:12,17 389:5	164:16 185:4 196:8	allergic (2)	24:6 81:24 288:3	240:15 257:2 260:6
390:19 391:9,16	205:17,19,21,25	276:15,23	291:11	260:24 328:4 336:4
392:10 394:11	206:3 214:5 226:18	allergies (1)	American (5)	341:14,16 347:9
395:19 396:17	307:13 361:24	277:2	36:8 73:11 116:20	353:2 364:11 372:3
397:12	agencies (1)	allergy (2)	131:6 264:24	376:24 383:5
adversely (1)	114:7	276:20 316:16	Amino (1)	answered (1)
288:23	agency (7)	allocated (1)	337:13	51:16
advice (6)	110:2,5,16,23 112:7	283:4	amorphous (1)	answering (2)
42:13 74:11 82:17	231:6 391:23	allow (6)	187:3	13:20 248:14
131:7 252:13 359:7	agendas (1)	101:20 102:8 107:14	amount (22)	answers (2)
advise (5)	107:5	244:6,20 245:2	38:16,20,23 39:12,16	13:17 309:10
46:11,19 55:17,18	agents (2)	allowed (2)	41:22 42:2 43:8	anthrax (1)
56:21	266:3 267:12	127:17 159:11	45:5 58:25 63:3	57:5
advised (2)	ages (2)	allows (2)	65:9 74:5 303:6 204:22 205:2 212:6	anti-vaccination (6)
56:17 146:22	195:12 226:19	121:10 140:17	304:23 305:3 313:6	18:7 47:6 191:11,15
advising (2)	ago (11)	altered (1)	315:12,15,18,19	243:11 379:10
74:10 130:21	12:3,3 61:22 116:19	142:11	335:3	anti-vaccinationists
advisor (2) 84:3 90:9	145:22 146:22	alternative (1)	amounts (7)	359:10,15 360:3 378:18
84:3 90:9 advisory (8)	261:18 271:12	129:13	59:7 297:22,23,25 315:21 319:16	
47:13 48:20 87:8	349:5 360:14 368:9	alters (2)	320:7	<b>anti-vaccine (1)</b> 146:16
47:13 48:20 87:8 107:9,23 111:5	agree (19)	303:15 304:13	<b>Amy (3)</b>	140:16 anti-vax (1)
112:24 113:18	27:3,10 32:2 107:11 130:14 131:10	altogether (1) 22:2	3:7 10:25 48:2	19:13
advocacy (2)	146:19,21 163:15	alum (19)	anaphylactic (1)	anti-vaxxer (2)
71:21 271:25	163:22,25 194:2		151:17	379:7,13
advocated (1)	209:2 251:22,25	293:17 294:3,5,5,9,13 295:3,13 298:2	anaphylactoid (1)	anti-vaxxers (1)
	207.2 231.22,23	275.5,15 298:2	anaparjaciona (1)	anu-vaaati 5 (1)
	1	1	1	1

378:18 antibiotics (2) 101:11.13 antibodies (16) 100:3 138:17.21 139:8 141:11 188:21 189:8 316:10 326:21,22 336:18,25 378:4,7 381:14 386:5 antibody (5) 173:15 382:17 383:7 383:13 386:6 antibody-producin... 137:10.21 138:2 140:8 anticipate (4) 42:8 43:13 44:14 65:22 anticipated (1) 70:10 antigen (12) 189:7 293:22,23 295:2,14 301:19 312:25 315:12,19 315:19 336:8,23 antigens (6) 188:25 189:2 194:22 242:14 293:25 295:11 anybody (24) 16:14 23:16 54:20 180:6 244:23 261:20,22 274:22 291:15 293:8,11 354:11,23 355:6,8 356:3,6,9 357:10 379:12,18 388:15 388:21 401:14 anymore (4) 291:11 298:7 319:5 324:5 Anytime (1) 13:24 anyway (8) 35:10 111:20 179:20 179:23 220:24 224:8 227:9 362:18 apart (4) 15:3 19:18 136:4 333:14 apnea (1) 180:12 Apologies (2) 95:7 327:2 apologize (6)

33:21 94:18 96:3 170:13 228:8 367:21 appalling (3) 18:22,24 19:10 apparently (10) 54:7 186:24 193:16 201:12 234:6 235:2 283:8 297:21 310:10 396:9 appear (4) 135:24 179:19 364:24 365:3 **APPEARANCES (1)** 3:2 appears (8) 44:25 100:10 157:10 162:20 186:15 278:21 378:10 385:24 appointment (1) 83:14 appointments (6) 82:2,5 83:7,11 84:18 85:12 appreciate (6) 121:23 138:13 146:6 219:19 252:20 262:5 approach (2) 66:12 207:13 appropriate (1) 28:11 approval (4) 102:6 113:12 129:7 181:15 approve (4) 128:11,13 129:19 148:8 approved (14) 102:10 113:15 126:15 127:3,21 128:4 129:2,4,15,16 148:15 164:7 172:7 232:9 approximate (2) 38:16 345:25 approximately (25) 12:7 42:24 44:11 64:2 67:22 69:4,10 73:6 103:16,21 104:17 104:18 121:4 122:6 262:21 328:18,20 329:3,5 344:21 353:4,9,24 370:18 383:10

April (1) 24:25 area (4) 100:9 103:6 292:5 355:7 areas (1) 221:13 arguments (4) 17:3,4,5 190:16 arises (4) 150:16,19 158:24 159:2 arithmetic (4) 186:14 198:20 305:2 398:10 arm (5) 136:21 167:8 181:4 208:23 209:5 arose (4) 150:23 153:19 156:2 180:3 arrangements (1) 107:11 arthralgia (3) 195:23 210:11 220:22 arthritis (12) 151:24 210:9 212:12 212:15,16 214:25 219:24 220:6,10,14 220:21,23 article (15) 69:17 70:8 78:4 81:3 340:25 341:5,13 348:9.12.14 367:19 372:22 373:3.4.6 articles (13) 80:12,16 81:3,20,23 105:22,25 107:12 191:17 194:3 367:7 367:9.9 **ASD** (1) 307:4 Asia (1) 21:3 aside (7) 23:4 136:8 143:11 204:23 206:8 320:7 374:7 asked (19) 15:20,22 49:8 54:23 65:16 135:6,9 231:14 237:8 252:24,25 262:12 268:12 335:19 341:18 365:5,7

13:25 16:4 40:14,24 75:3 156:7.10 164:17 166:8 168:3 205:4 207:15 247:9 247:10,11,25 248:2 248:9.22 250:10 251:17 253:5.11 255:7,9,10 284:12 294:16 337:17 339:4 346:14 369:11,13,18 aspect (1) 360:7 assert (1) 253:2 assertion (1) 116:15 assess (8) 142:17 168:9 176:2,8 183:18 223:20 263:16 290:19 assessing (1) 163:23 assigned (1) 62:18 assignee (1) 61:11 assignees (2) 62:13,15 assist (1) 232:12 associated (14) 5:21 6:18 215:24 227:16,21 229:2 279:25 280:7 307:21 310:16 334:19 384:17 396:17.19 association (11) 10:19 90:12 213:8,13 213:17,18 264:24 279:13,19,23 291:7 associations (1) 213:22 assume (10) 53:12 92:15,18 153:17 160:25 200:16 254:22 370:11 396:14,16 assumed (1) 202:18 assuming (5) 64:20 129:5 186:10 238:20 394:3 assumptions (1)

asking (34)

244:8 assure (1) 222:10 assured (1) 176:12 AstraZeneca (1) 72:19 atheist (1) 358:2 athlete (1) 363:20 attached (1) 180:7 Attachments (1) 7:23 attack (3) 139:12 357:21 358:8 attacked (1) 328:15 attacking (1) 208:16 attempt (1) 392:2 attempted (3) 146:8 196:4,18 attempting (3) 37:18 147:16 297:25 attempts (2) 283:25 290:14 attend (5) 22:14 87:23 132:11 133:18 136:10 attended (4) 109:15 111:6 133:6 133:11 attending (3) 75:14 76:7 136:2 attention (2) 43:12 280:14 attenuated (2) 103:3 372:24 Attenuation (4) 4:18 8:10 78:6 348:10 attorney (1) 81:16 Attorneys (2) 3:3.11 attributed (3) 180:11 181:9 182:16 Australian (1) 35:13 authenticity (1) 64:25 author (8) 17:11 78:8 80:13 81:21 108:9 278:10

368:25 390:22

	1	1	1	1
310:4 341:4	300:22	149:2 153:9 154:5	Baloney (1)	63:25 65:8 67:7
authoring (1)	available (22)	154:19,23 155:6	75:4	68:2,16 69:9 70:3
108:10	133:5 169:14 238:6	157:6,16 159:18	base (4)	71:25 74:13,24 77:6
authoritative (2)	243:4 244:18 321:6	163:2 164:2,6,13	117:18 328:12,21	102:21 106:16
106:18 116:13	321:7,10 330:13	209:22 210:5,18,21	329:12	114:10,25 127:5
authorities (1)	331:8 361:17 363:2	211:2,11,17,19	based (15)	128:5 129:10
152:24	368:19 369:2	212:3,11 224:7,9,16	23:21 56:13 60:4	136:14 160:12
authorize (2)	370:22,23 371:12	236:3 237:17	88:18 100:13	163:17 165:3 178:8
369:6,8	385:5 388:25	255:13 361:7,10	159:14 200:21	190:11 192:8
authors (7)	399:17 400:17,20	363:25 364:6 385:6	247:21 252:13	213:11 216:8 217:8
107:11 190:11 192:7	Avenue (2)	B-containing (1)	281:21 291:9	223:7 241:9 245:15
273:21 291:3	3:4 10:18	312:4	369:25 378:25	255:8 256:17 262:2
297:24 373:4	average (2)	B-U-K-A-V-U (2)	379:19 385:5	266:23 278:17
autism (60)	389:15 390:4	352:22 353:22	basically (9)	280:25 294:18
8:6 216:16,20 219:2	Aviv (1)	<b>B-U-K-U-V</b> (1)	17:2 20:8 21:5 23:17	305:3 317:23
241:3,5 242:5,9,12	192:19	353:21	148:8 208:22 295:9	319:16 326:9,15
242:23 243:3,6,8,10	avoid (3)	babies (8)	327:12 368:22	335:13,17 338:17
244:2 245:4,10	46:17 131:20 265:20	164:2,7,14 203:14	basing (3)	339:6 357:15,21
246:3,6,12,14 247:2	avoided (2)	240:2 330:9,19	204:24 205:3,4	361:16,20 368:16
247:9,13,14 248:3,5	13:3 53:18	350:9	basis (1)	368:18 372:5
248:7,22,25 249:4	award (2)	baboon (1)	375:22	379:18 384:4
249:10,15,16,20	78:17 116:5	102:11	baste (1)	387:21 388:16
250:17 251:6,17,19	awards (2)	baboons (7)	328:20	believed (3)
251:21 252:23	65:12 116:12	100:23,24,25 101:5	bear (1)	202:15 256:19 379:4
253:2,6,12,21,24	aware (81)	102:3 375:23 376:2	99:4	believes (2)
254:9,10,16 255:2	51:4,10 55:15 56:5	baby (4)	bearing (8)	26:24 66:20
255:16,18,23 277:6	67:18,20 73:20,23	99:24 164:9,11	6:19 52:14 66:8 217:7	Bell's (2)
280:15 302:22	129:18,25 130:25	307:11	218:7,14,16 221:8	152:14 162:3
303:12 306:19	131:8 136:8 141:22	back (49)	beginning (7)	benefit (2)
307:18 309:23	153:21,25 170:17	21:19 25:7 34:15	94:25 148:20 222:25	92:18,20
autism-like (2)	170:18,19 175:25	45:15 54:22 75:12	237:8 308:15	benefits (3)
302:20,24	206:11 209:21	75:21,24 76:4 95:10	331:21 394:7	164:23 255:8 379:6
autistic (1)	211:9,10 215:12	95:15 130:5 132:12	begins (1)	best (5)
310:7	216:10 237:25	137:12,16 160:2,10	96:12	14:6 130:13 376:3,9
autoimmune (26)	250:25 251:2	161:9,13 162:14	behalf (5)	376:14
150:16 152:2 158:24	256:13 258:13,14	166:10,12 174:24	10:24,25 11:2 15:12	bet (2)
185:6,13 190:10	271:25 273:11	176:5,18 183:11	87:25	159:9 193:24
191:20,22,25	290:18 293:8 303:3	186:21 197:4 199:9	behaviors (1)	Bethesda (2)
192:10 195:7,13,17	308:3 313:17,19,21	201:13 241:21	289:17	25:16,21
196:2,6,19,20,24	320:5 324:7 330:14	260:17,21 284:17	Belgian (10)	better (8)
198:15 200:24	331:25 332:10,13	318:7,9 320:14	350:15,20 356:8	129:6 143:5 193:13
201:4 202:9 203:9	332:17 333:7,10,13	322:7,10 323:18	371:9,15,23 372:14	280:20,21 348:20
208:14 211:25	334:5,9,18,20,24	335:4,18 341:17,23	372:25 373:24	382:17 399:8
225:2	335:6,15 336:3	351:20 353:8	375:4	beyond (2)
autoimmune/autoin	338:12,14 340:9	373:17,19 396:15	belief (1)	146:17 163:5
189:12 190:24 193:15	345:6,6,11 364:15	backwards (1)	307:17	bias (1)
autoimmunity (12)	371:13,24 372:12	131:20	beliefs (3)	66:11
5:13 190:7 192:6	372:15,16,18,20	<b>bacteria (9)</b>	357:18 358:5 359:17	biased (1)
194:4,7,10,12,14	375:6,7,9,13,15	99:3,23 118:15,19	believable (1)	66:16
196:14 202:15,17	395:23 396:2,4	142:4 326:7 375:20	146:24	biases (2)
202:19	<u> </u>	378:5,8	believe (74)	66:13 106:13
automate (2)		bad (4)	12:25 15:11 18:24	big (13)
392:2 394:25	<b>B</b> (46)	125:12 134:16 180:16	19:5 28:2,13 29:17	37:16 44:18 45:4
autopsies (1)	28:4,14 29:23 30:9	257:6 Baluum (1)	37:8 39:14 52:2	51:23 65:19 75:9
300:24	32:8,12,17 33:15,18	Bakum (1)	53:24,25 55:25	85:7 104:19,25
autopsy (1)	33:21,24 85:24	353:11	58:22 61:10,24	105:4 107:20 221:2
	1	1	1	1

338:4 biggest (1) 36:17 billion (12) 103:19.20 104:7.9.17 104:23,24 105:11 262:21,25 263:5,9 billions (2) 103:13 136:12 bind (14) 189:2 326:20 336:8 337:9 338:5,18 339:7,11,13,14,19 339:23 340:3,5 binding (2) 328:2 336:22 **Bio** (1) 86:14 biologic (1) 205:8 biological (1) 213:15 biologically (1) 117:13 **Biologicals** (1) 112:24 **Biology** (2) 8:9 310:2 **Biomedical** (1) 88:16 **BioNet** (3) 93:17.24 96:21 **BioNet-Asia** (1) 91:20 **Biopersistent** (2) 7:11 298:18 **Biosciences** (1) 92:8 **Biostatistics** (2) 273:23 278:19 biotech (9) 86:16 87:3 88:17 89:4 90:2,21 92:21,25 93:2 biotechnology (1) 23:20 biotechs (1) 38:5 **Birchall** (1) 8:4 birth (7) 6:11 278:23 279:14 279:24 280:7 281:21 286:18 birthday (2) 283:2.5

birthdays (1) 286:16 bit (7) 44:24 97:14 139:9 214:16.17 246:13 248:23 blames (1) 106:25 blank (1) 218:18 blinded (1) 277:24 blood (9) 175:18 316:3 325:9 325:10.13 326:8.20 329:23 381:14 Board (30) 23:25 47:13 48:20 86:7,20 87:6,8,14 87:22,23 88:8,23 89:11,22,23 90:10 90:16 91:3,14,25 92:12 93:8 107:23 111:8,12 113:10 180:7 181:14,16 182:17 boards (1) 107:9 bodily (2) 120:9 141:13 body (25) 119:23 136:17.19 137:3,3,5,7,9,20 138:22 139:12 140:10,16 141:4,9 189:6 207:17 208:16 209:9 247:22 249:22 295:18.22 300:6 336:17 boils (1) 211:20 bones (1) 138:18 bono (1) 365:12 book (26) 5:13 7:19 17:11 166:21 172:15,20 173:11 190:3 192:13 193:23,25 194:3 208:5,6,8 264:2 266:22 294:19,25 302:10 360:9 382:23,24 385:19 386:24

387:2 books (1) 192:11 boost (1) 103:4 booster (5) 30:14.14 96:9 98:12 98:16 Bordetella (1) 103:3 born (2) 12:11 280:2 Boston (1) 22:8 bottom (4) 48:25 178:24 180:23 203:17 bound (4) 295:14 301:18 336:17 338:10 bovine (3) 332:13,15,18 bovines (1) 316:4 boy (1) 33:12 boys (4) 31:18 186:9,10,12 brachial (6) 208:21,22,25 209:3 209:11 229:11 brain (27) 7:7,11,20 8:5 209:7 295:17,18,23 296:20.24 298:11 298:18 299:11,13 300:7 301:19.21 303:10,15 304:14 309:22 310:13,15 310:25 311:4.6 312:19 brains (5) 299:25 300:22,25 301:5 310:7 brand (5) 32:8,10,23 33:10,16 break (10) 148:16 159:24 194:15 201:17,24 202:4 222:17 261:19,19 321:12 Breast (2) 7:8 298:12 Brief (4) 52:25 94:24 222:24 308:14

bring (2) 13:5 24:21 British (12) 7:22 220:20 291:19 292:3.20.25 293:7 300:14 305:10,11 306:2 366:9 **Broderick** (5) 1:24 2:9 10:19 402:9 402:21 broken (2) 195:2 199:15 bronchospasms (1) 151:18 brought (1) 22:3 BTBR (1) 303:11 built (1) 244:9 Bukavu (7) 352:14,14,21 353:14 353:15,24 355:11 Bukum (2) 352:24 353:13 bull (3) 192:12,13,15 bullet (1) 366:2 bureaus (1) 107:10 Burundi (6) 351:19 352:17,24 354:2 355:19.25 business (4) 40:19,25 55:20,20 buy (2) 67:3 361:2 buying (1) 263:10 byproduct (2) 315:23 336:9 byproducts (3) 336:12,16,18 С C (3) 218:13 402:2,2 C-O-N-N-A-U-G-H... 228:11 calendar (3) 22:3 24:21 25:12 calf (8) 316:5,6,18,21 317:18 317:24 319:9 337:19

Page 5

California (6) 22:7,9,10 221:22 303:24.24 call (7) 29:4 37:15 379:10 400:15,16,17,21 called (24) 15:8 18:18 24:9 33:3 33:3 41:7 115:13 124:8 138:3,11,17 140:11 161:9 183:13 189:12 192:5 193:14 203:4 208:10 261:25 303:14 332:21 351:14 388:12 calling (1) 272:2 calls (7) 132:16 272:13,19,23 273:4 278:5 280:25 CalTech (1) 303:25 calves (1) 316:3 Cameroon (1) 367:17 campaign (7) 356:12,23,24 357:2 357:12 372:6,8 cancer (4) 7:8 298:12 315:8 330:23 cancerous (1) 315:6 cancers (1) 203:9 candid (1) 232:12 candidate (1) 79:9 capable (1) 119:3 capacity (1) 221:12 capital (2) 90:20 240:19 career (3) 340:17 344:18,20 careful (2) 213:25 301:11 carefully (3) 180:17 269:25 286:22 carriage (1) 103:5 carried (3)

				i dge o
0(5.14.075.10.10	025.10.026.0	056.6 007.10	120.15 16 20 22	101.02 105.0
265:14 375:10,13	235:10 236:8	256:6 297:19	139:15,16,20,22	191:23 195:2
carry (2)	242:25 244:21	300:16 304:20	140:2,2,3,4,5,11,12	223:20 252:18
209:7 375:2	causality (12)	384:13	140:13,14,17	277:23 318:15
carrying (1)	5:24 6:5,20,22 212:24	causes (11)	141:12 147:5	319:17 326:10
100:11	228:20 229:23	98:15 142:2 177:3	175:18 295:4,7,12	363:13 367:11
cars (1)	230:19 235:20	218:22 236:11,21	295:15 310:13,14	368:17 370:7 375:5
358:19	242:8,17,21	251:12 252:8	310:20,21,22,23	375:11 378:10
cascade (1)	causally (1)	255:12 387:19,21	313:22,24 314:5,16	383:8 386:3 401:12
140:20	312:24	causing (7)	314:23,24 315:2,5,8	certify (1)
case (44)	causation (8)	119:3 141:25 212:15	315:8,9 318:13,14	402:12
1:7 12:21 13:7 15:21	213:12 218:17 219:5	251:6 300:15	318:15 320:4	cetera (6)
16:2,3 19:8 20:3,10	219:6,8,21 236:18	327:25 390:10	322:14,18,23,24,25	24:13 53:23 173:17
20:13 26:2,9 37:11	238:6	caution (1)	323:3,18,20,23	175:18 300:22
81:17 85:18 117:13	cause (107)	200:13	324:5 325:25 326:4	382:2
124:5 129:12	17:6 115:4,25 118:20	CCL2-Dependent (2)	326:5,6,11 327:9,18	chain (1)
130:12 141:22	128:8 142:11 143:3	7:10 298:17	328:18 329:13	16:6
170:16 184:23	143:6 153:23	CD1 (1)	331:23 342:13	chairman (1)
196:10 202:11	164:15 182:18	7:14	348:11 366:4,4	87:7
238:18 241:10,12	192:4,10 194:4,6,10	CDC (39)	375:2,3,9	challenges (1)
247:23 259:11	200:23 202:17,19	28:2 32:2,5 52:2	cellular (9)	24:12
268:24 297:2 302:3	208:18 209:11,14	109:3,6,10,16,17,17	7:8 100:5 119:11	chance (3)
310:10 312:24	209:16,19,22 210:5	114:8 123:8,14	138:7 298:12	117:20 282:25 382:22
337:5 345:8 346:12	210:8,10,10,18	131:19 221:20	315:22 339:11,15	change (8)
348:18 365:4 380:5	211:6,11,18,21,24	222:3 259:13 263:9	339:20	136:16,18 137:3,4
380:8,15 381:7	212:3,7,11 216:16	270:2 272:9,12,18	center (3)	138:24 144:10
403:2	219:4 220:25 236:3	272:22 273:3 281:5	192:20 220:20 303:24	145:10 296:23
casein (4)	236:11,21 237:2,5	304:25 306:9 317:7	centers (4)	changed (2)
318:21,23 319:2	237:17,18,24 238:2	330:14 364:2,7	109:7 221:21 222:5	95:9 349:4
340:8	241:3,5 242:4,9,23	386:23 387:2	307:11	changes (3)
cases (19)	243:5,8,10 244:2	388:11,24 394:8	central (2)	123:9,14 141:13
13:2 115:18,21	245:4,10 246:3,3,6	395:5,12,14	209:8 307:3	chapter (9)
141:25 171:14,15	246:12,14 247:9,12	CDC's (10)	Centre (1)	5:13 17:11,22,25
205:2 259:12	247:13 248:3,5,7,22	28:3 110:5 123:18	8:4	19:17 173:18
260:14 261:10	248:25 249:4,10,15	157:10 162:20	century (1)	176:11 192:5
269:8 313:10,11	249:16,20 250:17	163:25 183:20	59:24	331:16
378:16 386:20	250:22 251:19,21	256:10 307:17	<b>CEPI</b> (1)	characteristic (1)
387:3,7,15,19	252:5,23 253:2,6,12	362:7	24:9	330:15
catalogs (1)	253:20,20,24 254:9	CDC-recommende	certain (24)	characterize (1)
19:4	254:10,16 255:2,16	27:2,7 98:3	47:10 71:25 117:6	342:13
categorically (1)	255:18,22 256:4	cease (1)	118:16 119:4 127:7	characterized (1)
56:12	287:7 301:2,20	59:22	153:22,23 175:2,6	209:6
categories (4)	307:18 330:23	cell (27)	175:20 183:4	charge (1)
217:2 218:4,17	336:24 337:11	118:17 119:16,20,20	192:15 206:18,18	232:16
229:21	346:6	140:7 314:13,17,19	213:2 234:12 237:8	chart (3)
category (6)	caused (33)	315:14,16 322:19	237:9,14 285:6	219:5 234:18 235:14
cutcholy (0)	causeu (55)	515.17,10 522.17	257.9,11205.0	
	116:4 118:6,13	,	291:5 315:10	
217:5,6 218:16 228:22 229:6,14	. ,	323:3,5,7,9,22	-	CHAT (2)
217:5,6 218:16 228:22 229:6,14	116:4 118:6,13	,	291:5 315:10 379:16	<b>CHAT (2)</b> 8:16 372:23
217:5,6 218:16 228:22 229:6,14 Catholic (2)	116:4 118:6,13 142:18 153:2,13,16	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4	291:5 315:10	CHAT (2) 8:16 372:23 cheaper (1)
217:5,6 218:16 228:22 229:6,14 Catholic (2) 345:12,18	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19	323:3,5,7,9,22 324:20,22,23,24	291:5 315:10 379:16 <b>certainly (41</b> )	CHAT (2) 8:16 372:23 cheaper (1) 288:12
217:5,6 218:16 228:22 229:6,14 Catholic (2) 345:12,18 causal (23)	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3)
217:5,6 218:16 228:22 229:6,14 Catholic (2) 345:12,18 causal (23) 153:10 154:10 155:2	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 cells (92)	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21
217:5,6 218:16 228:22 229:6,14 <b>Catholic (2)</b> 345:12,18 <b>causal (23)</b> 153:10 154:10 155:2 156:18 157:2 217:7	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10 208:14,15 212:19	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 <b>cells (92)</b> 4:19 8:11 78:7 119:3	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3 75:12,15 76:5,8	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21 checked (1)
217:5,6 218:16 228:22 229:6,14 <b>Catholic (2)</b> 345:12,18 <b>causal (23)</b> 153:10 154:10 155:2 156:18 157:2 217:7 218:8,14 219:25	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10 208:14,15 212:19 216:20 218:22	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 <b>cells (92)</b> 4:19 8:11 78:7 119:3 119:5,13,17,23	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3 75:12,15 76:5,8 89:21 97:18 101:19	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21 checked (1) 373:8
217:5,6 218:16 228:22 229:6,14 <b>Catholic (2)</b> 345:12,18 <b>causal (23)</b> 153:10 154:10 155:2 156:18 157:2 217:7 218:8,14 219:25 220:5,9 228:15,16	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10 208:14,15 212:19 216:20 218:22 235:24 237:9	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 <b>cells (92)</b> 4:19 8:11 78:7 119:3 119:5,13,17,23 137:10,10,11,22,22	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3 75:12,15 76:5,8 89:21 97:18 101:19 103:11 122:16	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21 checked (1) 373:8 chemical (1)
217:5,6 218:16 228:22 229:6,14 <b>Catholic (2)</b> 345:12,18 <b>causal (23)</b> 153:10 154:10 155:2 156:18 157:2 217:7 218:8,14 219:25 220:5,9 228:15,16 228:23 229:7,15	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10 208:14,15 212:19 216:20 218:22 235:24 237:9 238:15 247:2	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 <b>cells (92)</b> 4:19 8:11 78:7 119:3 119:5,13,17,23 137:10,10,11,22,22 137:23 138:2,4,4	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3 75:12,15 76:5,8 89:21 97:18 101:19 103:11 122:16 123:12 131:19	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21 checked (1) 373:8 chemical (1) 338:21
217:5,6 218:16 228:22 229:6,14 <b>Catholic (2)</b> 345:12,18 <b>causal (23)</b> 153:10 154:10 155:2 156:18 157:2 217:7 218:8,14 219:25 220:5,9 228:15,16	116:4 118:6,13 142:18 153:2,13,16 154:19,22 155:19 156:9 162:8 169:2 171:16 190:11 194:21 207:10 208:14,15 212:19 216:20 218:22 235:24 237:9	323:3,5,7,9,22 324:20,22,23,24 325:10 329:4 335:21 342:16,17 342:18 385:6 <b>cells (92)</b> 4:19 8:11 78:7 119:3 119:5,13,17,23 137:10,10,11,22,22	291:5 315:10 379:16 <b>certainly (41)</b> 17:24 32:6 35:11 37:22 42:22 55:17 57:17,21 60:4 67:3 75:12,15 76:5,8 89:21 97:18 101:19 103:11 122:16	CHAT (2) 8:16 372:23 cheaper (1) 288:12 check (3) 134:13 361:18 395:21 checked (1) 373:8 chemical (1)

TSG Reporting - Worldwide 877-702-9580
	1	1	1	
209:4	260:2,10 261:6	circulate (1)	150:8 290:15 291:14	265:24,25 266:8,11
chick (1)	262:9,14 265:17	138:22	293:7	266:20,24 267:5,14
35:9	271:6 273:19	circumstances (3)	clinical (53)	271:2
chicken (5)	275:18 276:12,22	119:4 315:7 399:23	106:16 142:14,17	collaborated (1)
275:22 276:2,7	277:2 278:2,25	Citation (1)	147:18 149:7,18,23	109:17
312:15 328:24	280:2,9,9,18 282:14	3:11	150:11 157:20	collaborations (1)
chickens (2)	282:24 284:13,14	cite (1)	158:6,8,21 165:3,4	110:15
122:14,22	287:15 306:25	176:4	166:9,13,19 167:2	colleagues (1)
chief (2)	307:5 308:4 310:7	cited (6)	168:9 169:19,23	374:25
105:24 106:7	330:9 348:16,22,23	266:22 306:22 367:24	170:15 171:2,19	collect (5)
chikungunya (3)	349:23,24 362:23	368:11,15 399:5	172:10,22 173:21	60:8 158:11 159:9
24:5,13,18	379:9,25 398:24	cities (2)	174:6,12,18 175:5	175:15 357:4
child (42)	Children's (12)	356:13 357:2	175:13 177:22	collected (6)
19:5 20:9,13 26:13,15	16:20 57:24,25 61:20	citing (1)	178:8,9,20 183:17	158:12,15 163:19
26:17,20,21 27:24	62:8,20 63:8 64:12	176:12	185:6,11 196:24	166:5 392:19
29:23 66:2,9 96:12	74:8 75:17 76:12	city (3)	197:11 200:25,25	394:23
99:13 117:19	83:9	10:18 22:9 354:8	203:18 205:8	collecting (1)
124:16 182:7,13	childs (1)	claim (7)	206:10 207:4,16	158:19
215:2 225:17	359:4	115:6 190:23 243:22	238:24 242:11	collection (1)
249:11,12,24	chimp (1)	255:24 287:6	266:16,18,19	359:4
252:11 255:20	366:4	307:17 360:8	clinics (1)	college (4)
257:7,9 263:16	chimpanzee (3)	claimed (2)	286:17	367:25 368:13 369:4
268:18,20 285:9	122:2 354:15 366:3	230:15 235:23	close (3)	384:15
288:6 291:17	chimpanzees (2)	claiming (9)	101:3 334:13 365:17	colonial (1)
304:24 316:10	122:9 366:2	50:25 125:18 158:12	co-authors (2)	350:13
319:2 334:10,25	choice (2)	159:17 160:19	108:14 191:14	colonized (2)
359:2,3 380:8	322:23 362:12	173:2 250:24	co-counsel (3)	102:23,24
386:17	choose (4)		10:23 11:2 184:13	<i>2</i>
		286:22 287:5		color (1)
childhood (25)	181:17,19,20 281:20 <b>CHOP (9</b> )	claims (5)	<b>co-inventor (1)</b> 67:12	121:12 Columbia (12)
5:22 6:19 96:7 98:4	63:9,11,15,20,23	115:12,24 125:15	co-inventors (2)	<b>Columbia</b> (13)
114:21 223:9,12,23		231:7 277:21	62:11 126:23	7:22 25:5,6 220:20
224:22 225:19	64:18 65:3 67:6,7	clarification (2)	o2:11 120:25 co-worker (2)	291:19 292:3,20,25
226:3,10 227:16	chopped (1)	204:7 364:4		293:7 300:14
239:24 284:24	344:2	clarify (2)	346:11,18	305:10,12 306:2
314:4 316:2 318:10	chose (1)	11:19 177:15	<b>co-workers</b> (1)	column (5)
322:13 323:25	202:8	Clark (4)	343:19	198:6 199:23 200:4
325:2 327:3 334:11	chosen (2)	62:12 126:23 127:6	coalition (4)	201:18,19
334:21 383:3	126:5 232:7	128:15	4:16 24:9 71:14 72:10	columns (1)
children (96)	<b>Chris</b> (4)	Clarkston (1)	Coalition's (1)	195:4
6:10 34:19,23,25 35:2	291:23,25 292:21	3:12	73:7	combine (3)
35:7,9 66:20 74:14	309:15	class (1)	coating (1)	194:12 202:8 301:4
98:20 99:6 124:2,6	Christian (1)	83:4	120:5	combined (3)
124:8,21 125:2	345:23	clear (12)	code (6)	104:5 199:3 204:25
131:6 143:19,20	chronic (6)	18:14 40:21 45:2	150:10 158:14 264:15	come (29)
144:19,22 145:5	164:14 210:8 219:24	163:11 242:20	264:20 265:11,13	24:17 34:15 37:18
156:6 162:23	220:6,14 277:18	253:9,12,21 283:7	codebook (1)	48:10 60:2 61:3
166:11 171:8,11,13	church (1)	283:24 302:23	265:5	63:23 65:16 68:20
173:16 180:20	345:12	347:8	codes (3)	84:15 105:11 126:3
181:2,22 182:2,24	circovirus (3)	clearly (5)	120:13,13 264:23	126:4 135:4,9 160:2
203:14 210:13,16	332:22 333:5,18	74:17 221:12 253:15	coding (2)	166:25 171:2
220:18 221:3	Circuit (2)	280:18 377:6	264:16 265:17	183:11 214:6 266:5
223:21 224:13,17	1:2 10:11	client (2)	cofounder (6)	272:11 318:7,9
225:11,15 243:19	circular (3)	168:7 205:6	267:16 268:12,14,14	320:14 329:13
256:10,15,16,25	153:12 172:7 207:2	clients (1)	270:11 271:19	332:2 346:15 399:8
257:4,4,21,22 258:2	circulars (1)	160:23	cofounders (14)	comes (7)
258:5,8,14,17 259:2	204:24	clinic (4)	259:5,9,19 265:21,23	56:22 72:2 73:7
			l	

135:23 207:21
213:18 332:15
coming (2)
10:3 48:2
commence (1)
395:12
comment (1)
134:24
comments (5)
comments (3)
232:12 234:4,7
250:12 307:19
200112 00(11)
commission (3)
230:25 251:7 403:25
commissioned (3)
230:23 231:2,7
committee (25)
101:8 111:5 112:12
112:24 113:3,5,18
113.19 127.13
112:24 113:3,5,18 113:19 127:13 128:10 129:22
128:10 129:22
130:6,7,9 131:3
133:20 216:7,9
221:7 227:25 230:5
231:11 232:10
231.11 232.10
242:10 288:21
committees (4)
109:15 110:14 114:7
144:7
common (6)
212:16 239:7 255:12
269:17 284:25
349:3
commonality (1)
108:24
commonly (6)
32:11 212:21 230:15
234:11 235:23
247:4
Commonwealth (3)
2:11 402:4,11
communication (1)
16:11
communities (1)
265:19
community (11)
6:16 126:9 189:18
221:19 222:7 266:4
266:6 267:13
268:19,21 283:20
companies (49)
22:15 32:24 37:16
38:9 41:12 46:2,16
46:20,23 51:23 52:3
46:20,23 51:23 52:3 52:13 54:9,18 55:8
46:20,23 51:23 52:3 52:13 54:9,18 55:8
46:20,23 51:23 52:3 52:13 54:9,18 55:8 55:22 56:10 65:20
46:20,23 51:23 52:3 52:13 54:9,18 55:8

72:15 73:8,22,25 74:4.10 75:10 79:4 84:23 85:7 90:16 93:14 96:21,24 107:8,12,17 108:16 117:3,7 124:20 126:7 148:6 233:16 233:25 257:25 281:4 company (54) 23:21.24 40:20.21.25 41:3,6,19 42:4 53:19 55:16 72:13 73:13 76:18 85:22 86:2,8,17,21 87:12 88:9,19,22 89:5,10 89:17,19 90:3,8,22 91:3,10,12,14,21,23 91:25 92:14 93:3,9 93:16 107:5 113:9 117:4 125:3,6 148:13 153:4 163:18 165:19 181:14,15,18 228:12 company-sponsore... 107:13 comparable (2) 169:7 259:2 comparative (5) 6:8 213:7,8 221:25 273:17 compare (5) 188:6 226:14 265:17 297:22 398:20 compared (8) 213:7 256:16 257:3 280:8,9 284:13,15 398:23 comparing (8) 225:10.11 257:22 259:25 262:8 263:14 272:3 284:5 comparison (1) 258:3 compensation (5) 108:11,16 115:13 117:15 233:7 competitor (1) 128:24 compiled (1) 388:24 compiling (1) 233:23 complain (1) 363:13

complaining (1) 363:15 complaints (3) 250:25 251:2,6 complete (7) 13:25 14:3 68:15 140:23 142:2 336:6 378:16 completely (9) 141:2,6 163:22 256:11 258:17 259:25 260:6,23 307:23 complex (1) 376:25 complicated (2) 98:13 140:15 complies (3) 185:2 190:19 335:9 component (5) 93:24 318:20 326:8 326:23 327:8 components (1) 326:20 comprehensive (2) 196:11,19 comprise (1) 137:25 comprises (1) 125:21 conceivable (1) 223:18 concentration (1) 314:3 concentrations (2) 297:2 313:24 concept (1) 281:20 concern (8) 100:17 153:20 194:5 200:14 230:4,7 301:2 397:21 concerned (10) 17:2 76:23 113:7 191:17 220:15,22 307:24,25 321:24 400:14 concerns (6) 143:2,9 194:8,9 225:6 282:19 conclude (4) 154:25 244:7,20 245:2 concluded (6) 131:4 235:22 237:19 241:7,8 401:18

concludes (1) 401:4 conclusion (22) 106:19 154:15.16 155:6,8,11 218:4 236:17 241:2 242:8 242:17.22 243:6 244:17 252:18,20 254:19,24 255:3 267:2,24 268:7 conclusions (12) 144:24 217:2.25 221:20 246:17 263:22 266:17 270:21 282:20 285:3 287:6 367:15 Concurrently (1) 168:22 condition (10) 157:3 185:5 195:13 196:24 218:20,23 218:25 252:5,8 277:18 conditions (29) 131:23 153:25 155:19 156:8 190:10 195:17,22 214:15 214:18,23 215:6,10 215:15 219:4,12 229:10,17,20,22,22 235:15 237:9 238:14,20 239:8,8 239:18.19 247:4 conduct (10) 157:11 223:7 258:2 258:21 259:14 275:10 281:5,13 296:18 359:9 conducted (5) 214:2 229:24 273:9 376:11 391:18 conducting (8) 147:18 216:7 227:25 231:11 251:14 272:23,23 291:16 confer (1) 99:24 conference (5) 24:25 132:16 322:10 365:4.6 conferred (1) 138:10 confidence (1) 399:7 confident (4)

127:17 172:4 241:5,6

confirm (8) 72:23 142:14 154:18 207:19 278:6 281:15 283:17 391:2 confirmation (1) 256:19 confirmed (3) 146:13 285:5,14 conflict (4) 46:17 126:5,12 130:16 conflicts (6) 4:21 66:18 106:12 129:19 131:21 132:23 confounders (2) 267:5 268:2 confounding (1) 267:19 congenital (3) 12:6,12,14 Congo (15) 350:15,21 352:12 356:8 371:9,15,19 371:20,23 372:10 372:14,25 373:24 375:4,10 Connaught (1) 233:6 connection (3) 304:6 365:23 367:2 connections (2) 85:6 130:10 consent (2) 131:7 164:22 **Consequences (3)** 8:15 367:20 369:24 consider (8) 13:5 101:8 175:13 195:25 296:15 303:20 365:6 379:6 considerable (8) 12:14 39:11,16 42:2 63:3 74:9 75:15 76:9 considerably (6) 96:18 97:20.21 98:9 288:11 358:16 consideration (1) 249:23 considered (6) 157:11 257:6 281:24 315:6,23 394:21 consistency (1) 220:15

				rage y
consistent (2)	150.22 252.2 200.2	convenient (1)	107.21 24 109.2 7	265.5 8 260.4 6
consistent (3)	159:22 252:2 299:2	convenient (1)	107:21,24 108:3,7 108:12 110:3,17,24	265:5,8 269:4,6
147:10 219:25 220:4	314:23 315:2,5,9 321:18 322:2 395:2	280:17	108:12 110:3,17,24 112:20,20 115:14	270:2,9 271:7,16
consists (2)		conveniently (1)		273:10,19,24 278:7
137:9,21	<b>continues</b> (2)	202:8	117:24 121:7	278:20,25 280:15
constructed (1)	154:13 189:7	<b>conversation (1)</b> 322:6	123:15 124:12,16 124:17 125:7,20	281:2,10,16 282:11 282:16,22 283:3
225:22 consult (2)	<b>continuing (3)</b> 44:14 117:4 321:20	conversations (2)	124:17 125:7,20	282:10,22 285:5 285:24 286:19,20
41:12 345:21	continuous (2)	14:17 135:18	128:20,21 133:7,8	285.24 280.19,20 287:22 288:18,24
consultancies (2)	314:13,17	convinced (1)	134:5,7,18,24,25	292:11 293:3,20
84:17 90:14	continuously (3)	258:25	135:15 136:13,25	292:11 295:3,20
consultant (1)	204:22 314:19,25	convincingly (1)	139:4 140:20,25	294.3,7,11 293.8,13
84:19	contraindication (8)	235:10	142:16,18 147:13	297:11,20 304:4,8
consultants (2)	27:12,19,22 249:13	convulsions (1)	147:13 149:16,19	304:14,20 306:3,5,9
107:8 130:3	311:10,18 312:3	143:4	149:20 151:4 152:5	307:20 308:6
consultation (1)	379:16	COONEY (1)	152:19,20 154:11	309:23 310:2,8,19
109:21	contraindications (2)	3:10	155:3,4,7,21,22	315:24 316:19
consulted (2)	27:14 312:23	cooperate (1)	156:20 158:3	317:8,11 319:3
42:19 107:20	contribute (5)	395:5	159:13 160:6	324:21 326:21
consulting (4)	49:11 57:11 256:24	cooperating (1)	161:18 162:5,10,11	328:3,8,22 331:19
38:4 43:22 233:10,11	307:4 348:22	394:8	164:7,8 165:12	331:23,24 333:18
contact (3)	contributed (1)	copies (5)	169:11,15,16	333:23,24 334:3,4
89:23 168:5 329:13	57:10	298:21 331:13 369:3	170:10,15 172:13	336:14,19,25 338:5
contain (19)	contributions (1)	369:7 370:12	176:3,22 177:5,6,18	338:11 341:8,10
142:5,10 240:23	57:4	copy (14)	178:5,10,17,21	342:23 343:2,7,10
314:5 316:3 318:11	contributors (3)	16:5 67:3 79:20 131:9	179:10,13,16 180:4	343:13,14 346:8,16
318:16 319:13,18	190:17,21 349:23	131:16 145:12	180:18,21 181:15	356:11 358:11
319:20,24 322:14	control (55)	176:14 184:13	181:19 182:9,10	359:7,12,22 365:15
324:2 325:3 326:24	109:7 151:2,4,9,10	217:10,11 274:7	183:15,18,22 184:6	365:21 366:5 367:5
327:4 328:6,7	160:9,14,20,24	302:12 401:8	184:20 185:7,13,16	368:2 370:16 376:7
331:18	165:4,7,10 168:23	402:15	185:23,25 186:3,4	376:12,17 378:5,6
contained (4)	175:22,23 176:2,5	cord (1)	186:23 187:14	380:16,19,22,23
317:11 320:5 373:16	179:9,12,15 185:15	209:8	188:7,12,23 189:8	381:18,20,23
402:13	185:19 186:16,23	corner (1)	189:13 190:7,8	386:17,21 387:11
containing (1)	187:16 194:13	80:6	195:4,8 197:19	387:16 388:13,20
242:13	195:3,3 196:25	Corp (1)	198:7 199:24	388:23,25 390:2,11
contains (6)	197:11 198:18	88:16	201:22,25 202:6	390:12,14 391:10
67:4 135:21 187:18	201:3,18,25 202:5	corporate (2)	203:4,11 204:5,13	391:16,20,23 393:3
328:17 329:3,8	202:16 206:14	107:9,23	205:17 208:3,8	393:6,15 394:9,9,18
contaminant (2)	213:10 238:13	correct (393)	212:22,25 215:19	395:3,6,22 397:25
327:17,20	254:5 259:5,12	20:13,16,17,19,20	215:25 216:16,21	398:4,9,12 399:18
contaminated (1)	264:9 266:11,20,24	31:8 32:22 37:10,15	217:9,18 218:2,5,8	402:15
332:3	267:10,11,17,18	37:17 43:8 47:16,20	218:18,23 219:9,22	corrected (1)
contamination (1)	268:13,16 270:12	48:22 49:6 51:14	220:6,10 221:15,16 223:10 227:17,22	52:12
382:5	271:20 307:11	54:12,13,15,18 55:5	223:10 227:17,22 229:2,17 233:3,17	<b>correctly (3)</b> 97:10 236:24 279:12
contempt (1)	<b>controlled (8)</b>	55:8,10 58:20 60:20	233:20 234:13,22	
321:8	243:18 259:19 270:9	60:21 61:18,19	233:20 234:15,22 234:25 235:15	<b>correlate (2)</b> 146:23 283:17
content (1)	271:9,16 390:9	64:20,23 65:20 68:3	236:8 237:5,6 238:4	costly (1)
309:14	398:18 399:8	68:18,22 70:18 72:22 74:2 6 7	238:15,20,21 239:4	37:14
contest (3)	controlling (1) 259:9	73:22 74:3,6,7	239:18 240:15,17	cough (3)
132:24 346:21,23	259:9 controls (3)	78:22 79:24 80:16	240:20,24 242:5,6	99:9 276:11,13
context (2)	160:16 204:13 226:18	80:22,25 81:21	243:8 245:4,23	<b>Council's (1)</b>
146:7,15 continue ( <b>19</b> )	controversy (1)	83:20 84:4,5,7 85:15,18 86:8,9,11	246:3,15 249:16	232:10
27:7 42:8 43:24 59:18	365:19	86:18,24 87:8,10,18	251:9 254:10,11	counsel (15)
68:24 82:13 117:4	convenience (2)	88:10 90:17 92:5,6	257:11,16 258:3	5:14 10:21 11:3 15:3
139:18 154:14	53:21 280:24	102:15 104:12,13	259:6,22 264:24	16:11 40:3 53:2
137.10 134.14	55.21 200.24	102.13 104.12,13		10.11 10.5 55.2
	1	1		1

### 331:18 368:23 250:11 274:6 214:5 current (8) 174:11 196:5 85:25 93:21 94:2.3 320:17 400:8,24 197:11 203:21 deadly (1) covers (1) Counselor (6) 390:24 318:13 384:5 385:2 207:4,16,19,19,24 387:17 39:15 68:9 166:2 207:25 208:2 214:6 **cow** (4) 385:21 deal (2) 168:13 191:7 253:4 316:9.11.13 318:17 currently (13) 220:19 224:20 141:3 274:21 30:13 58:19 59:21 230:3 236:15.17.20 cows(8)dealings (1) 122:14,23 316:8 62:4,5 165:12,15 238:10 252:19 65:23 254:4.20.25 257:16 dear (1) countries (5) 318:16,18,19,20 184:10,19 274:21 21:23 143:13 287:22 364:13 371:13 257:25 259:24 212:2 319:20 288:4 319:21 380:18 262:9 268:10,11 create (10) death (6) 47:7 54:14 124:25 Curriculum (1) 278:10,17 284:19 284:5,16 285:21 285:4 307:24 37:12 71:21 123:23 79:19 357:22 389:16 136:16 137:2,4 127:22 181:23 188:21 378:7 cut (3) 330:15,25 331:2 396:24 182:8 195:12 381:16 382:8 23:2 320:9 343:20 354:7 357:4 359:20 deaths (9) 362:23,24 364:19 196:14 212:22 created (10) cutting (1) 171:15 260:13 261:10 222:5 263:16 85:10,11 139:7 364:21 379:2,4 95:7 287:8 387:7 389:9 CV (24) 384:3 385:5 388:25 285:19 288:7,8 148:12 189:8 390:10 396:18,20 311:8,22 312:5,10 322:20,21 323:16 4:20 79:24 80:2 81:14 389:5 392:19 debatable (1) 312:16 381:25 324:14 366:7 81:16,19 84:20,21 394:23 395:11 189:14 creates (6) 85:3,6,8 86:11,12 399:7,7,24 debris (3) 1:2 10:11 402:6 Datalink (3) 120:8 136:18 138:16 86:24,25 87:17 339:11,15,20 139:8 378:3 381:13 88:25 89:13 90:13 258:11,21 399:16 decades (1) 13:2 18:21 26:11 69:3 creating (2) 90:15 91:6.18 92:5 date (6) 106:20 87:15 351:7,22 93:12 62:24 80:7 126:22 December (1) 141:10,11 136:13 286:18 creation (2) **CVs** (1) 80:22 47:17 342:17 191:8 403:3 decide (3) critical (3) cytokine (3) Dated (1) 115:3 123:23 132:2 402:25 121:24,25 232:12 302:21,23 304:16 decided (5) 17:10,19 21:5 23:8,13 criticism (1) cytokines (1) dates (1) 143:5 145:9 154:15 25:8 66:4 75:19 130:6 294:6 281:21 171:5 344:24 76:14 82:16,19,25 criticizing (1) cytomegalovirus (1) day (19) decides (4) 141:5 164:2,12,16 83:3 85:8 105:17 144:17 57:5 148:2,3 182:17 180:13 275:7 109:11 110:8 **Cross-Sectional (1)** cytoplasm (1) 396:13 320:24 321:2,2,4,4 119:14 120:25 278:24 119:17 deciding (1) 141:6 143:17 177:2 Crowe (1) 321:5 356:21 379:22 D 359:19 363:25 202:13 212:17 291:3 decision (10) 364:6,18 400:15 214:9 221:6 222:3 crucial (1) d (1) 200:20 216:24 237:11 403:23 224:9,19 239:12 131:5 240:18 247:19 379:5.17 281:11 283:22 **CS**(1) damage (2) day's (1) 380:2,3,6,13 373:7 294:13 313:25 235:10 313:17,21 decisions (4) 362:10 364:3 days (42) CSL (1) dangerous (2) 131:6 247:21 249:5 75:14 76:8 83:4,5,5 35:14 99:14 318:3 362:11 150:2,3,4,12,15,16 cultivated (2) dangers (1) Decreased (1) 150:18,19,21,22,24 322:24 323:7 300:13 208:13 DAPTACEL (1) 158:9,11,13,18,23 cultured (2) deemed (2) 158:24 159:3,7,10 1:2 10:11,18 11:5 323:3 343:23 179:3 175:12 201:4 13:11,12,15,21 159:20 163:6,14,19 cultures (1) daresay (1) defect (1) 92:18.20 240:12 178:16 179:2 318:11 158:15 125:15

84:22 85:14 184:14

count (1)

country (20)

County (3)

couple (9)

353:5,25

coupled (1)

course (37)

399:15

courses (2)

82:10.13

**court** (18)

cover (1)

coverage (1)

205:16

358:25

242:18 284:10

341:19 353:16

400:24 401:7,10

culturing (1)

CureVac(1)

curious (1)

382:15

cure (1)

101:13

89:3

280:6

80:15

covering (1)

371:22

166:21 171:2

180:21 182:3

206:15,21 225:20

251:4 311:9,16

314:12 353:25

363:15

DC (1)

115:16

defend (1)

81:17

defendant (5)

defendant's (2)

84:22 85:14

1:8 3:11 11:4 26:8

115:24

100:13,14 146:15,16

146:16 154:18,21

163:20 166:4,13,20

155:10 162:15

dash (1)

data (71)

351:2

### Page 10

dead (2)

				rage II
dofonda (1)	110.10 206.17	datail (2)	345:9	271.20 200.10
<b>defends (1)</b> 231:6	118:18 286:17	<b>detail (2)</b> 94:12 95:23		271:20 290:10 313:14 338:25
	depends (9)		developmental (3)	
deficit (1)	97:17 142:6 207:17	details (2)	289:18 307:2 308:4	350:5 362:9 374:18
280:14	207:18 264:7 313:4	26:6 60:7	develops (1)	377:12 378:14
deficits (2)	313:23 315:7 380:9	detect (5)	182:14	difficulty (2)
7:5 297:19	Deponent (2)	150:3,15,18,22	device (1)	212:16 378:11
define (6)	403:4,21	158:23	41:13	diffuses (1)
257:19 378:17,20	deposed (2)	detectable (2)	devices (2)	382:17
394:11,14,17	12:2,21	239:17 289:23	106:15 107:13	dilutions (1)
defined (4)	deposit (2)	determination (8)	diagnosis (1)	383:14
44:19 109:6 187:3	368:7 369:17	216:19 219:22 229:23	264:19	diminished (1)
280:13	deposited (5)	235:20 236:8	diagnostic (1)	98:9
defines (1)	367:24 368:4,12,22	237:20 238:6	242:11	diminishes (4)
218:14	370:5	382:14	dial (1)	94:5 96:18 97:19
definitely (2)	deposition (34)	determine (20)	322:6	384:13
175:19 210:7	1:10 2:6 10:8,13	43:8 101:20 102:22	die (5)	diphtheria (12)
definition (1)	11:20 13:9 14:15,21	116:2 180:2 187:17	99:10,17 323:2,12,14	28:4 97:5 225:19,20
208:24	16:13 18:4 19:14	187:22 213:12,13	died (4)	240:23 242:13,25
definitive (2)	20:7 26:21 52:19	213:16,17 219:8	143:22 161:8 282:15	269:8 378:3,5,8,16
220:14 247:23	60:11 65:15 94:22	239:15 246:2,5,21	310:7	Diphtheria-Tetanu
definitively (1)	95:2 131:16 134:13	255:2 342:19	Diego (1)	6:14
246:8	148:21 155:15	346:12 390:17	22:11	diploid (8)
degeneration (2)	176:15 222:22	determined (2)	diet (1)	4:19 8:11 78:7 322:14
7:6 297:20	223:2 298:21	153:15 236:7	252:13	324:2,8 335:11
degree (1)	308:12,16 320:22	determining (1)	difference (9)	348:11
285:6	397:19 401:4,18	212:24	122:3 147:19 195:6	direct (3)
Delayed (1)	402:15 403:3	develop (24)	199:17 200:12	139:14 216:9 331:12
7:12	depositions (1)	23:21 24:10,18 72:16	220:23 359:2,4,5	directed (5)
Delivery (2)	13:3	74:4,11 89:18 90:11	differences (8)	75:25 95:16 137:17
7:7 298:11	deposits (1)	93:15,19 96:22	120:20,25 121:10,24	260:22 341:24
demand (3)	300:21	102:8 128:23	121:25 122:3,17	directly (8)
66:25 145:16 155:13	derived (5)	195:13 233:16	211:15	40:5,25 44:19 57:15
demographics (1)	314:13,20 315:2	290:3 316:10,16	different (36)	57:16 59:2 139:13
265:20	318:19,20	326:21,22 330:21	22:10 35:5 43:22	221:8
demonstrated (1)	derives (2)	336:17,25 342:16	44:25 106:24 112:7	director (2)
172:9	138:19,20	developed (15)	120:18 121:2,5,11	38:2 83:23
demonstrating (1)	deriving (1)	33:2 58:4,9,18 61:24	121:19 123:2	directors (2)
57:13	58:13	62:8 91:10 93:24	125:23 141:17	86:7,20
dendritic (2)	describe (4)	128:6 175:3 196:23	192:25 213:9 214:5	disabilities (2)
295:3,15	50:20 139:9,21	284:23 342:12	214:16 227:22	389:24 390:11
Denmark (5)	150:11	343:9 361:25	234:17 237:4 245:6	disability (2)
283:24,25 284:5,13	described (3)	developers (2)	246:19 250:13	277:12 280:14
284:18	138:25 203:21 341:13	24:15 107:24	262:15,15,17	disagree (3)
deny (2)	describing (1)	developing (14)	266:13 292:15	193:17 209:2 290:6
347:14 360:4	50:16	7:20 12:19 22:16	293:4,19 301:12	disagreement (1)
denying (1)	<b>Description</b> (7)	55:21 56:23 74:10	380:2 392:23	14:24
348:8	4:7 5:3,8 6:3 7:3 8:3	86:16 88:17 91:21	393:19,20	disappears (1)
department (6)	9:3	93:15 103:3 148:13	difficult (35)	378:13
83:10 115:22 222:4	design (2)	288:4,7	37:14 46:9,12 55:3	disapprove (2)
273:22 278:18	125:14 168:3	development (21)	144:18 157:14	243:17 278:7
305:12	designed (1)	38:7 45:7,10 57:11	211:3,14 212:18	disc (9)
depend (3)	146:18	58:5 76:18,21,25	213:16,17 224:5	88:13 94:21 222:19
99:25 100:3 207:18	designing (1)	77:17 79:5 86:5	226:12,13 239:9,12	222:21 223:2
dependent (1)	202:20	89:7 90:5,24 93:5	260:7,25 262:7,14	305:20 308:16
314:2	despite (2)	114:3 126:13 148:7	263:21 268:18,23	397:5 401:3
depending (2)	101:22 307:7	303:16 304:14	270:12,21,24	discard (1)
	I	I	I	l

				2
285:2	248:18 249:9 262:2	328:15,19,19 329:4	393:5,15	279:16 280:25
discarded (2)	248:18 249:9 262:2 264:17 266:6	329:5,9,11,19,22	double-blind (2)	283:12 284:8
374:7,10	269:14,17 270:5	330:8,19 338:17,18	212:25 223:8	288:16 289:9
discards (1)	285:11,16 380:11	339:6	double-strand (2)	290:11,15 293:12
286:6	disorder (14)	doctor (3)	328:19 329:4	293:15 298:6
disclose (4)	150:23 155:25 159:2	23:19 264:18 314:22	doubt (22)	300:19 301:19
85:2,6 158:13 232:25	185:6,13 196:2	doctors (1)	39:17 43:9,9 51:24	302:19 307:21,25
disclosed (11)	198:16 201:4 277:7	388:16	59:5,6 60:23 64:24	308:5,12,16,20
<b>`</b>	277:15 280:15,15	document (10)	· · · · · · · · · · · · · · · · · · ·	309:10,20 310:19
86:10,23 88:24 89:12	304:4 306:20		65:3,5 68:12 121:23	,
90:12 91:6,17 92:4	disorders (13)	50:25 205:7 272:19 290:3 317:7 318:5,8	167:5 170:16 199:16 200:11	317:3 318:8,25,25 319:10 320:15
93:11 160:25 233:25	6:13 151:15 152:8			321:19 335:5 341:2
		345:12 368:12,15	220:24 258:19	360:12 366:15
disclosing (2)	161:17,17,21 196:7 196:10 202:9	<b>documented (1)</b> 144:9	283:15 294:25 374:23 384:9	367:12,18,21
84:22 161:2	278:23 280:12		dozen (3)	369:16 391:6,12,14
<b>discovery (2)</b> 39:23 159:25	301:25 304:7	<b>documents (10)</b> 18:3 19:14,20,24	21:8,9,25	395:9 398:24
	disproven (1)			400:13,16 401:4
<b>discuss (3)</b> 14:15 16:21 24:4	370:16	39:20 59:13 60:15 71:7 159:25 370:2	<b>DPT (8)</b> 216:16 20 218:2	<b>draft (1)</b>
	dispute (6)		216:16,20 218:2	232:7
discussed (16)		<b>doing (21)</b> 10:4 53:20 82:21	219:3,6 282:14	dramatic (1)
15:2,13,14 16:12,22	206:17 220:12 281:15		284:5 285:22 Dr (151)	396:25
20:6,9 84:6 135:7	285:17,25 387:3	92:19 224:9 228:2	Dr (151)	396:25 draw (6)
157:2 247:6 335:14	disputed (1)	236:6 252:17	4:20 7:22 10:8 11:16	
335:16 359:18	365:23	259:11 266:16	12:2 16:6,16,18,19	144:24 154:15 246:17
376:2 380:14	disputing (2)	271:22 281:3	16:21 17:8 18:13	252:19 267:2
discusses (3)	366:25 367:2	291:20 293:8 347:5	19:23 33:23 35:16	270:22
190:9,10 242:3	disrupt (1)	354:5,13 355:13	40:12 48:15,25	drive (3)
discussing (3)	307:2	357:6 365:11	49:12 50:14 51:6	3:11 25:19 358:19
54:23 129:21 243:17	disrupts (1)	379:19	52:4 53:9,21 70:8	driving (1)
discussion (8)	308:3	dollars (11)	75:2,7 77:24 78:13	47:17
8:20 123:13 135:12	dissected (3)	39:2,9 43:4 45:5 59:9	79:13,19,24 81:19	drug (9)
244:12 250:6	296:20 299:12,24	60:18 67:9,11 74:6	83:12 84:16 94:22	109:23,25 203:4,6,10
347:15 362:17	disseminated (1)	136:12 263:10	95:2,11 106:6,25	203:25 205:9
401:15	211:21	donors (6)	134:11 143:16	206:24 264:18
discussions (9)	distinct (1)	53:7,11 72:13 325:17	148:25 149:13,20	drugs (2)
14:20 15:23,25 16:25	188:7	325:18 327:18	151:9 156:7 167:22	106:15 107:13
24:7 132:15 136:11	distinguish (1)	dose (24)	168:2,16 170:4	DTaP (51)
144:2 355:20	350:5	7:18 94:10 96:9,14	171:17 173:10	28:18 30:11 33:10,11
disease (33)	District (2)	97:11,24,25 98:13	178:4,16 181:21	33:13 94:11 95:21
17:7,12 99:5,9 109:7	25:4,6	100:2 149:25	197:9,13,17 201:13	97:4 205:16 206:5
118:20 119:4 129:2	diverse (1)	150:13 157:19	202:25 203:16	209:11,19 210:18
129:4,10 142:2,12	232:8	158:8 159:20	204:16 205:3	210:22,23 211:21
146:18 164:15	divides (1)	164:16 165:24	208:12 217:2,15,16	215:24 240:8,9,10
171:10 191:25	118:22	169:18,22 177:21	217:23 219:15	240:10,15,22 242:4
192:4,10 200:24	dividing (1)	179:2,20 180:13	221:4 223:2,6	242:9,23 243:5,7
209:6 212:17	118:23	300:17 328:19	224:11 225:17	244:2 245:3 246:6
213:23 224:7	Division (2)	dose-equivalent (1)	227:14 228:19	246:12 247:2,13
252:10 268:19	1:3 10:12	297:25	230:13 231:15	248:3,22 249:14
304:18 306:19	DNA (46)	Dose-Response (1)	234:17,19 241:14	250:21,23,24 251:6
307:11 357:22	88:18 118:17,25	7:16	241:20 242:15,16	251:11,16,18
358:17,25 375:19	119:11,12,14,15,25	doses (24)	242:18 243:21	253:20,23 255:15
387:17	120:2,4,8,11,12,12	29:23 30:2,9,11,15,18	244:8,24 246:11	256:5 286:24
diseases (23)	120:16,17,22 121:4	30:20,23,25 31:3,7	248:11,20 250:7	362:18,20
24:10,13 66:21	121:18,18 122:4,5,7	94:17 95:25 96:6	253:10 255:9 256:8	DTaP-containing (1)
146:11 147:6 152:3	122:18,19 123:2	151:6 160:7 171:21	260:11,18 261:8,14	311:7
180:15 191:21,22	215:9 289:16	301:12 360:24	264:13,15 265:24	DTaP-IPV (1)
203:9 214:20,21	327:19 328:7,10,15	384:10,11 392:23	274:16 278:14	317:16
	I	I	I	l

### 40:24 41:11 45:6,9 DTaP/Tdap (5) editor (9) 141:14 145:5 ended (1) 247:6 254:8,10 255:2 105:18.20.24 106:7 51:12 112:14 186:10 223:15 113:15 106:21 208:8 225:25 226:2,13 Endrix-B (1) entry (1) 255:22 **DTP** (17) 296:13 349:6,16 236:11 278:6 149:3 96:10 editors (1) 281:15 286:18 enunciated (1) 142:20.23 143:19.22 ends (4) 145:5 168:22,25 192:16 312:5 315:23 94:21 222:21 308:11 116:19 169:2,8,9 284:13,21 edits (1) 355:12 357:13 401:3 environmental (2) 285:10 287:7,14,25 105:22 elaborate (1) 215:14 289:17 engage (1) 221:22 288:2 enzymes (1) Edmond (1) 136:6 due (2) Electronic (3) 106:6 engaging (1) 291:6 104:11 180:9 education (2) 8:23 391:8.15 epidemic (4) 252:15 55:13 71:18 duly (1) Elements (1) 24:5,10,12 109:13 Engerix (1) 11:9 educational (4) 310:2 32:11 epidemiologic (1) duplicating (1) 46:6 50:10 54:24 56:6 Eleven (1) Engerix-B (7) 289:11 119:22 Edward (1) 97:8 5:5 157:15 158:3 epidemiology (4) Dynavax (5) eliminate (3) 8:19 160:22 161:15 98:19 109:18 273:22 85:21,22 87:20,22 265:22 268:2 327:16 162:8 164:5 effect (13) 278:18 96:22 114:23 128:24 eliminated (1) 113:8 engineered (2) equal (4) 138:6,21 141:21,24 130:9 327:11.14 129:6 207:14 286:3 Е 146:9,13 175:18 elucidate (1) engineering (1) 288:7 E (4) 290:2 327:10 256:22 284:21 equity (1) 2:9 3:6 402:2,2 285:14 email (6) England (8) 107:16 earlier (32) effective (2) 15:15 16:3.5.11.15 8:12 21:6.14 104:14 Ernst (3) 54:23 61:24 62:3 57:14 99:7 48:3 105:15 106:3,7,21 15:8,20 16:12 67:12 68:17 79:3 effectiveness (1) emailed (1) enhancing (1) ERRATA (1) 84:6 138:11 148:25 97:18 49:16 188:24 403:1 155:21 169:10 effects (13) emails (1) enormous (2) erythematosus (1) 176:7 183:21 223:6 5:19,23 6:4,21 141:9 71:19 238:16,19 152:3 236:2 237:7,23 embryo (1) 141:11.13 144:8 enroll (1) especially (4) 31:17 160:16 196:10 247:7 260:8 261:3 146:17 147:4 35:10 277:24 268:12 274:25 217:17 230:19 embryonic (2) enrolled (1) 259:21 282:11,18 286:8 290:4 318:11.12 **ESO (3)** 278:2 301:16 319:12 efficacy (24) emergency (1) enrolling (1) 3:5,7,12 321:16 338:3 376:2 94:5,9 95:19 96:18,20 389:20 280:23 Essential (1) 376:19 380:14 163:5.5.11 164:18 emeritus (1) ensure (1) 120:14 early (4) 172:8 224:10 82:9 essentially (15) 232:14 42:19 77:9,10 323:17 259:21 266:10 employees (2) 38:6,10,21 41:9 42:20 enter (2) easier (2) 383:2,10 384:6,9,11 125:25 181:17 107:10 264:20 57:12 82:17 83:3 41:10 129:3 384:12,18,21 385:3 Enbrel (7) entire (6) 124:25 144:16 easily (4) 385:12.22 5:18 203:4,6,21 147:10 272:22 336:22 166:5 203:7 264:16 198:22 270:8 271:15 effort (1) 204:17 205:13 344:18,19 356:5 276:19 316:11 331:8 266:12 206:13 entirely (3) establish (3) eastern (1) efforts (2) encephalitis (12) 300:23 313:4 372:5 156:18 157:2 179:7 352:12 24:18 96:19 152:19 161:21 171:15 entities (7) established (3) easy (10) 210:6 236:4 260:14 egg (3) 37:21 40:8 42:15,23 98:19 253:15 294:21 223:17 258:6 266:17 319:13 340:5,6 261:11 310:24 43:22 75:19 76:15 establishes (1) 267:6,10,11,16 eight (4) 311:11,23 312:6,16 entitled (19) 229:15 268:13,15 331:11 82:4 96:13 239:15 encephalomyelitis (3) 63:7,11,15,18 67:15 estimate (6) Ebola (1) 383:15 211:22 311:5 312:11 156:17 307:20 377:8 70:19 173:12 190:6 24:13 Eighteen (1) 384:5 385:2,21 encephalopathy (7) 231:25 298:11,17 economic (1) 161:22 311:2,8,16,23 205:23 298:25 303:9 estimates (1) 350:6 eighth (1) 312:6.10 309:22 348:10 395:25 eczema (1) 323:20 encoded (1) 367:19 369:23 estimation (3) 277:9 253:16 376:20 377:21 either (21) 268:11 372:23 391:8 Edition (3) 32:19 37:9 44:19 encountered (1) entity (12) et (6) 6:6 173:12 265:4 56:14 91:18 120:2 221:7 24:13 53:23 173:17 40:5,10,11,15,18,22

175.19 200.22	220.9 15 229.14 22	378:14 379:15	206.2 6 207.5 0	350:17
175:18 300:22 382:2	220:8,15 228:14,23	380:9	296:2,6 297:5,9	
	229:7,15 230:19		299:4,16,21 301:6	experimental (8)
ethical (5)	232:15 234:13	excellent (2)	301:10 302:4,9,14	8:9 242:11 346:25
101:4,6,8,13 223:7	235:19 236:10	284:19 331:11	305:4,8,16 309:17	347:4,10 350:10,13
ethically (2)	237:11,19 241:9,11	exception (1)	309:21 316:24	375:11
157:13 376:6	242:4,12,24 243:4,6	126:9	317:4 335:5 336:13	experimentally (1)
Ethics (1)	243:14,16 244:6,17	excerpt (6)	337:8 340:20,24	296:25
349:7	245:3,5 246:10,16	6:7 239:21 241:24	347:22,24 348:5	experimentation (2)
Ethiopia (1)	246:18,19 247:16	265:8 288:18 289:8	349:11,15 366:12	303:2 349:7
266:5	248:7,21 249:10,14	excerpts (1)	366:16,18,19	experiments (4)
ethnic (1)	251:15,18,23,24	230:9	367:19,22,23 388:8	101:4 300:8 348:21
350:6	252:2,6,8,9 253:7	exchange (2)	389:4 391:3,7	349:21
Europe (5)	253:17,19,23 254:8	16:4,15	396:16 397:3,8,9	expert (4)
20:25 87:3 90:21	254:25 256:24	excipient (3)	Exhibits (4)	12:23 15:21 85:18
143:11 287:24	300:15 302:2	8:7 317:6 336:2	299:5 308:21,22	168:10
European (1)	306:25 308:3	exclude (1)	367:10	expertise (2)
93:2	338:12 340:10	154:21	exist (9)	232:8 306:16
evaluate (4)	364:12,16 369:25	excluded (3)	106:13 243:7 245:3	experts (1)
107:9 180:8 181:5,14	376:10,14 402:12	269:18 394:18,20	267:15 289:15	15:12
event (20)	exacerbation (1)	excuse (3)	359:14 364:21	EXPIRES (1)
179:5 180:21,25	152:12	179:21 198:25 253:20	384:3,4	403:25
181:23 182:3,8	exact (10)	excused (1)	existed (4)	explain (1)
197:23 198:12	41:24 67:11 68:13	401:17	272:16,17 372:18,21	358:13
209:25 212:19	83:2 143:24 154:8	executive (1)	existence (1)	explained (1)
214:22 217:25	269:2 272:3 315:21	84:3	278:3	164:25
239:17 301:18,21	344:22	exemptions (1)	existing (1)	explanation (2)
345:24 348:8 352:5	exactly (15)	18:19	257:16	139:24 213:15
391:16 398:11	42:2 59:23 63:2,5	exhibit (167)	exists (7)	expose (1)
events (31)	72:2 80:4 87:16	4:6,9,10,11,13,15,16	176:10 236:19 246:22	376:6
5:21 6:18 140:24	181:10 195:18	4:18,20,21,23 5:2,4	262:9 371:14,21	exposed (4)
150:13 156:24	277:25 343:3	5:6,8,9,11,13,15,17	374:19	99:22 145:5 225:16
179:8 180:3,11	346:12 362:5	5:19,21,23 6:2,4,6,8	expanding (1)	382:15
181:6,9 182:13	378:23 388:4	6:11,14,18,21,23	50:9	exposure (10)
198:3 205:9 214:10	exaggeration (1)	7:2,4,7,10,12,16,19	expect (3)	98:25 156:19 203:21
214:11 224:10	97:15	7:21,24 8:2,4,5,7,8	43:24 181:25 195:11	215:14 266:3
225:3 227:16 229:2	exaggerations (1)	8:10,12,14,18,22,23	expected (1)	267:11 268:17,19
230:4 247:5 388:12	19:2	9:2,4 47:23,24 48:8	167:7	268:22 304:18
390:20 391:9	EXAMINATION (2)	49:13,17,21 52:5,6	expenses (3)	exposures (1)
392:10 394:20	4:2 11:13	52:17,19 64:5,9,17	50:2,17,23	289:17
395:19 396:17	examined (4)	69:13,14 70:2,3	expensive (1)	expressed (3)
397:13,21 398:13	11:10 144:6 301:5	72:4,9,24 77:20,21	107:15	137:8,19 348:20
eventually (4)	368:23	77:25 79:10,14,16	experience (26)	extended (1)
30:14 56:24 77:7	examining (1)	131:11,15 149:10	53:22 85:17,19	206:9
364:14	354:7	149:14 157:22	149:18 158:6	extensive (3)
eventuated (1)	example (28)	158:2 167:15,17	159:15 161:16	176:19 177:2 370:8
78:24	46:15 73:18 88:4	170:5,6 177:24	178:8 181:21,23,25	extensively (3)
everybody (1)	101:10 138:5	178:4 183:25 184:2	182:3,8 195:10	170:21 174:2 190:9
10:3	140:12 153:7	189:20,25 197:6,10	196:15 203:18	extent (1)
everybody's (1)	175:16 182:13,20	202:22 203:2	204:25 205:8	194:16
213:19	191:19 216:14	217:12,16 227:11	206:24 207:6,10,22	extra (1)
evidence (82)	224:6 225:16,18	227:15 231:16,17	214:7 289:13 363:3	287:12
5:23 6:4,19,21 102:17	237:16 256:21	241:15,19 264:10	363:8	extrapolate (1)
192:9 209:23	265:17 281:20	264:14,14 265:2,3	experienced (3)	396:22
216:15,18 217:7	314:16 318:21	273:12,16 278:11	179:5 309:3 363:21	extremely (2)
218:7,14,16,17,21	324:11 337:11	278:15 282:3,7	experiment (4)	166:6 396:7
219:5,7,21,25 220:4	358:16 364:18	288:13,17 289:3,7	6:17 101:9 339:9	eye (2)
	I	I	l	l
1 mm				

				2
121:11 313:9	271:4	265:23 267:3	figures (3)	first (60)
121.11 515.7	familiar (32)	300:23 359:23	136:15 143:24 243:11	11:9 15:5 37:24 42:24
F	71:13 104:14 105:15	399:12	file (1)	44:7 70:7 78:8 80:6
<b>F</b> (1)	106:22 107:18	features (2)	62:16	94:13,17 95:23,25
402:2	123:8 143:15 190:3	302:20,25	filed (3)	99:15,20 116:7
f/k/a (1)	192:19,22 193:2,5	febrile (3)	10:10 115:12 117:3	126:15 127:3,20,20
1:5	215:19,21 227:2	143:4 152:13 209:14	files (2)	129:6,7 143:20,21
FA (2)	230:21 258:10	February (1)	370:3,8	146:5 148:14
235:4,8	274:15 298:10,16	136:3	filing (1)	151:19 154:13
fact (28)	298:20,24 302:9,10	federal (3)	53:23	164:2 170:20
4:12 51:24 53:4,19	303:8,9,14 330:4	124:21 150:10 158:14	final (11)	180:13 191:7,10
66:7,10 104:11	340:25 348:11	feel (7)	301:9 315:13,14	197:16,17 203:20
121:25 133:17	372:22 386:23	60:10 158:16 241:4,6	319:15 324:8	206:21 217:5,6
141:20 153:11	families (1)	306:16 321:7	326:10,14 327:22	218:7 219:14
156:12 173:25	19:4	386:11	335:7 339:15 397:2	220:13,16 221:6
189:11 191:12	family (3)	fellow (1)	finally (1)	230:10 232:3 240:3
207:7 272:22 273:3	1:3 10:12 270:16	189:15	354:2	268:4 273:9 282:14
287:17 295:19	family's (1)	ferric (2)	finances (3)	285:22 288:20
338:6 339:22 340:4	20:19	334:22,23	46:10 53:20 60:2	306:11,12 317:13
345:9,15,22 366:5	far (26)	fetal (6)	financial (9)	342:12 352:7
381:24	25:17 51:4,10 52:3	303:15 304:13 322:21	49:9 51:7,8 60:7	363:25 364:6
factors (4)	75:12 76:4,23 98:8	323:4 342:11 345:8	65:23 66:16 74:22	370:22 392:15
145:3 283:22 288:20	135:21,23 160:21	fetus (5)	74:25 262:24	first-ever (1)
290:8	165:13 174:18	322:22 323:8,9	financially (2)	127:3
facts (3)	179:14 191:16	324:15,18	49:11 74:20	first-world (1)
13:6 18:25 147:11	196:6 207:9 212:14	fetuses (20)	financing (1)	288:8
faculty (2)	214:19 220:14,21	12:13 340:14,18	72:2	five (36)
82:2,5	290:9 307:23	341:12 342:2,8,10	find (28)	80:16 82:4 88:12 94:5
fade (1)	334:20 353:8	342:19,25 343:6,10	16:7 46:12 134:15	94:8 95:17 97:20
96:12	372:12	343:12,16,25 344:5	146:22 147:16	98:2 150:2,3,4,12
failure (1)	fashion (2)	344:20 345:4 346:2	163:3 170:14	150:15,16,18,19,21
358:9	119:19 277:24	346:10,14	172:15 174:8	150:22,24 163:13
fainting (3)	father (8)	fever (4)	193:25 216:18	171:14 186:22
167:8 363:10,17	15:11,15,17,18 26:24	111:22 143:3 173:16	218:21 226:16	197:24 216:25
fair (4)	27:3,5,10	175:16	236:7 245:21	218:4 229:10,14,17
113:22 189:17 281:8	favor (2)	fewer (3)	248:21 250:4	267:24 268:4
281:8	66:13 128:23	146:11 392:8,9	251:16 254:8,15	269:12 279:17
fairly (1)	favorable (1)	fibroblast (7)	256:18 261:24	311:7 323:11 368:9
334:20	15:10	322:19,24,25 324:3	284:20 294:12	401:3
faith (25)	favors (8)	335:11,20 342:11	299:23 333:17	five-dose (2)
26:20,21,25 27:6,10	155:2 228:23 229:7	fibroblasts (1)	371:18 378:14	94:10 95:20
27:14,17,20,25 30:5	234:24 235:4,6,8	324:9	finding (3)	flew (2)
31:8,20 37:8 65:18	245:20	fibromyalgia (3)	154:7 198:11 200:9	21:19,19
84:24 157:17	FDA (21)	211:12,13,18	findings (11)	flip (1)
177:17 214:13,17	109:20,22,22 110:2	field (5)	146:19,23 147:9	191:3
215:4,8,13 256:12	114:8 148:7,8,9,15	37:18 85:19 103:2	220:12 278:7 281:9	flu (23)
262:4 399:3	159:10 171:4 172:7	106:13 191:23	281:15 283:18	29:2,4 30:23 34:9,13
Faith's (3)	174:12 206:25	fifth-to-last (1)	285:18,25 304:12	34:15,18,18,19,24
26:24,24 58:22	306:9 317:8,9	228:20	<b>fine</b> (8)	35:19 182:24,25,25
falls (1)	375:16 376:11	Fifty (2)	10:5 123:5 143:14	183:2,3 209:16
97:22	388:11,24	124:23 377:20	183:9 260:12	210:18,25 211:11
false (6)	<b>FDA's</b> (1)	figure (9)	321:20,22 339:5	211:19 312:9
8:15 175:14 213:22	336:2	39:16 59:4 67:11	finish (2)	360:15
267:24 268:5	feasible (11)	68:13 71:5 198:22	284:10 287:10	fly (1)
378:25	224:23 262:12,18	267:8 289:20	firm (1)	358:19
familial (1)	263:20,24 265:16	315:17	377:2	folks (2)
	I	l	I	Ι

				2
97:11,14	fortunately (7)	234:24 235:5,6	funding (49)	17:5 148:5 180:5
follow (2)	99:6 117:21 224:16			190:4 204:21
60:3 68:11	258:5 360:5 371:17	<b>fraction (1)</b> 390:19	4:16 24:11 46:8,15,22 49:5,7 50:5 51:3,5	220:21 364:13
	372:9		49:5,7 50:5 51:5,5 51:11,22 52:2,13	
follow-up (4)	<b>fortune (1)</b>	fragmented (2)		379:21 401:13
159:6 163:4,9 178:21	74:19	328:11,20	53:16,19,25 54:4,9	generated (1)
followed (5)		fragments (2)	54:25 55:7,16,22	394:24
26:5 163:12,18	Forty (1)	329:5,9	56:19,21 71:23	generations (3)
203:22 389:12	383:25	France (8)	72:11 73:7,12,15,18	323:11,13,14
following (6)	Forty-eight (2)	20:25 21:10 23:4,6,12	73:23,25 74:9 75:9	genetic (7)
7:14 156:13 179:2	168:18 178:14	25:7 153:19 156:2	75:13 76:6,17,20,22	215:4,8 270:15
256:10 334:10,25	forward (3)	Francisco (1)	77:2,5,6,11,13	289:16 290:22
follows (3)	134:2,3 360:25	22:11	78:25 79:4,8 126:6	327:10 330:22
11:11 144:22 304:24	found (36)	Fred (4)	funds (1)	genetically (3)
fondly (2)	19:10 96:16 128:8	62:12 126:23 127:6	114:23	327:11,14 329:15
352:3,4	129:25 143:22	128:15	further (3)	Geneva (1)
Food (2)	149:19 196:21	free (2)	278:5 286:2 315:11	23:15
109:23,25	218:16 219:5,20,24	134:20 321:7	future (5)	genome (1)
footnote (1)	220:8 228:14	freely (1)	29:12 42:10 43:14,25	329:16
218:13	234:10 235:18	74:12	221:14	geographically (1)
for-profit (13)	251:15 253:16,16	French (6)	<u> </u>	356:14
86:2,17 87:12 88:19	253:19,23 254:3	78:21 228:8 300:12	G	GeoVax (1)
89:5 90:3,22 91:12	256:21 279:13,23	301:14,15 309:7	G-L-Y-C-O (1)	89:25
91:23 92:14 93:3	282:14 284:2	frequency (3)	90:19	Germany (4)
233:16 263:15	296:19,20 297:18	156:18 169:7 377:4	gain (2)	21:2,12 23:3,18
force (22)	300:25 304:6 310:4	frequent (1)	74:22 147:8	getting (12)
4:11 47:17 49:3,8,14	310:5,13,18 332:8	294:13	gaining (1)	47:20 113:15 143:13
49:22 51:3,5,6,11	Foundation (5)	frequently (6)	74:18	174:10 311:18
51:13,21,22,25	23:15 55:18 56:8,18	12:14 99:17 109:17	gaps (1)	364:18 365:17
52:13 53:5,15,20	64:13	212:17 294:4 316:5	221:7	375:20 377:7 386:6
54:2,3,8 347:24	founder (1)	front (5)	Gardasil (18)	387:13 397:17
foregoing (1)	92:11	135:9 261:15 264:2	5:12,15 184:6,10,11	ghostwritten (1)
307:7	founding (1)	265:7 294:19	184:16,19,22 185:9	107:12
foreign (2)	54:14	frozen (1)	187:23 188:14	gifts (1)
23:2 338:9	four (60)	373:8	197:12,18 199:18	107:15
forever (1)	37:15,16 44:18 45:4	fulfilled (1)	199:19 201:3,14,17	girl (1)
383:7	50:14,19,20 51:23	369:18	GARDASIL/AAH (	31:18
forget (1)	65:20 75:9 80:15	full (9)	202:5	girls (9)
269:2	82:4 85:7 94:10	11:24 132:12 140:20	Gates (3)	185:3,11 186:9,10,11
forgot (1)	95:20 104:6,19,25	172:7 224:25 226:3	23:15 55:17 56:8	195:11,11 196:8,22
274:24	104:25 105:4	242:19 396:16	gavel (2)	give (32)
form (8)	107:20 158:9,11,13	398:6	133:24 134:3	18:9 39:15,17 43:20
4:10,10 49:13 59:2	158:18,23,24 159:3	fully (4)	geared (1)	52:23 59:4 68:13
60:8 209:3 232:7	159:7,10,20 163:6	140:19,23 349:22	205:5	82:17 93:25 94:19
349:25	163:13,19 179:20	402:13	geez (1)	95:11 100:2 104:11
formal (1)	183:3 197:24 202:6	function (3)	37:24	114:4 116:5 131:9
252:19	205:19,25 219:6,7	122:5,19 209:6	Geier (2)	202:13 217:10
former (2)	219:12 228:16	functioning (1)	243:12,12	223:21 227:10
16:16 106:7	229:2,6,16 233:2	349:22	gelatin (4)	231:14 244:11
formerly (1)	240:5 276:2,5,6	functions (2)	319:18,20 339:24	263:5,5 279:3
10:9	279:17 305:19	120:9 140:6	340:4	302:12 315:17
forms (3)	308:11 353:7	fund (3)	general (11)	319:11 335:4 377:2
132:22,22 293:16	365:14 383:14	69:21 70:12 77:17	113:25 120:11,12,12	390:21 400:16
formulation (2)	386:20 387:2	funded (3)	141:21 146:12	given (42)
294:3 324:8	fourth (1)	56:16 57:19 222:4	210:3,4 306:20,21	13:25 26:25 74:11
forth (3)	228:19	funders (2)	330:20	94:17 96:2,6,9
40:21 270:16 313:24	FR (3)	23:17 52:11	generally (9)	97:24 101:11 103:4
10.21 270.10 313.27	<u> </u>	20.17 02.11	Benerung (>)	,, <u>_</u> , _, _, ,,,,,,,,,,,,,,,,,,,,,,,,,,,
	•	•	•	•

112.10 129.25	217.22 218.12	207.7 400.12 12	40:6	32:19 33:8,13 34:3
113:19 128:25	217:23 218:13	397:7 400:13,13		· · · · · · · · · · · · · · · · · · ·
134:20 157:9	222:9 228:13,19	401:5,10	group (99)	35:11 36:4,7,13,17
162:19 164:16,19	234:15 241:23	goings-about (1)	15:9 35:16 46:25	36:25 37:6,10 43:17
168:25 169:8 171:8	265:10 269:20	136:6	71:17 73:10,21	43:23,25 53:16
181:22 203:10,13	276:15 284:17	Golden (1)	111:23 130:12	78:18,25 79:8 149:3
203:25 204:17,21	292:14 297:13	2:7	132:11,12 133:2	163:17 184:21
204:22 205:17	314:7,8 317:13	good (27)	151:2,4,9,10 160:6	233:13
206:8 207:14	318:5 321:9 323:18	11:16,23 47:4 66:9,25	160:10,14,20,24	guess (20)
212:21,23 223:25	335:18 345:16	96:11 97:23 102:13	165:4,7,8,10 168:19	65:25 80:17 81:11
224:19 226:11	368:16 371:18	116:22 117:9	168:23 174:17,21	104:8,9,21 105:8,9
240:19 248:17	387:25 388:16	129:15 132:7	174:23 175:9,10,22	114:20 159:23
263:15 284:20	392:15 396:15	187:12 244:25	175:24 176:3 179:9	172:18 199:11
348:17 364:13	God (2)	292:4 321:23 326:5		202:15 211:20
			179:9,13,15,24	
392:24	38:19 357:22	326:23 368:21	185:16,19,20,24,25	261:18 307:14
giving (2)	goes (2)	376:23 382:2 383:6	186:11,12,22	345:23 362:12
116:12 284:21	132:2 166:10	383:23 385:7,24	187:23,25 188:4	384:2 394:19
glad (4)	going (115)	386:4 388:6	196:23 197:12	guesses (1)
16:7 166:22 253:14	10:2 13:8 16:5 22:25	gosh (7)	198:7,14,18,23,25	105:6
345:17	23:3,4,20 24:23	18:9 21:11 114:19	199:5,18,19,22	guidelines (1)
glanced (1)	25:2,7 34:15 39:19	145:14 353:2 368:9	200:14 201:3,3,7,9	106:18
283:13	47:22 48:7 49:12,15	382:23	201:22,25 202:2	Guillain-Barre (6)
gland (1)	52:4 53:10 54:22	gotta (1)	204:11 206:14	162:2 209:16,19,22
344:2	59:25 64:8 65:15	321:9	213:7,8,10 224:24	209:24 229:11
Glaxo (8)	69:12 72:8 77:24	gotten (3)	225:7,12 226:9	Guillain-Barré (1)
32:19 42:22 45:25	79:13 94:22 102:13	72:25 97:12 223:23	238:13 264:9	152:9
72:19 84:11 103:25	103:2 106:5,9	governed (1)	266:14 267:20	guinea (6)
149:3 160:23	108:21 112:19	131:7	278:17 290:24	123:3 318:11,12,13
GlaxoSmithKline (2)	118:8 131:14 134:2	government (11)	292:2,18,22,24	318:14,15
32:13,18	140:24 145:15	51:8 88:3 112:7 124:6	293:7 300:12,14	gun (1)
GLIMSTAD (1)	148:17 149:13	125:24 129:22	301:14,15 304:2	366:2
3:3	157:25 159:16,22	131:3,5 258:15,15	305:10,11,18,25	gut (1)
global (12)	161:10 167:14	262:19	309:7	382:18
4:12 49:3,14,22 51:3	170:4 176:18,24	governmental (7)	group's (1)	guy's (1)
51:21,22 53:5,16	178:3,23 183:24	51:12 112:14 116:12	132:13	291:22
54:3,8 103:16	184:11,15 189:23	116:14 395:24	grouping (2)	guys (5)
glutamate (1)	189:24 197:4,9	396:4,5	266:2 267:11	39:22 52:17 320:8
337:11	202:18,25 207:15		groups (26)	
		governments (2)	35:20 50:4 55:7 71:21	321:7 322:9
GlycoVaxyn (1)	208:24 214:16	24:12 38:5		
90:19	217:15 222:18,23	grandchildren (2)	111:15,17,20 132:8	H
GMO (1)	231:15 232:3	363:24 364:5	132:16,20 136:4,8	H-O-O-K-I-P-I-A (1)
319:24	239:20 241:18	grandfathered (2)	176:6 185:23 188:7	92:25
GMOs (1)	264:13 266:5	170:18,19	199:2 202:6 214:5	haemophilus (2)
320:2	273:15 278:9,14	grant (3)	224:3 226:14	28:5 33:24
go (65)	279:11 282:6	391:22 394:8,9	262:15,16 271:25	hail (1)
13:8 50:14 78:12,12	287:13 288:16	grants (3)	284:16 286:13	191:5
80:11 81:3 94:12	289:7,8 293:15	50:17 76:24,24	350:7	half (7)
95:22 98:8 130:5	296:5 299:2,3,9,19	graphically (1)	grow (1)	22:19 25:23 176:25
142:13 152:22	301:9 302:7,8 305:7	289:20	317:19	
142:13 132:22 160:10 161:4,5,13	305:15 308:13		growing (2)	196:13 204:3
		gratifying (1)		321:10,15
162:14,25 168:15	309:20 317:3	65:12	141:5 306:25	half-truths (1)
170:12 173:18	320:11 322:8	great (9)	grown (6)	19:2
174:24 176:5 178:7	329:25 330:2 335:4	18:2 40:17 48:13	324:11,20 326:4,8	hand (49)
186:8,21 191:8	340:23,23 342:7	141:3 226:23 268:6	331:22 375:3	47:22 48:7 49:12 52:4
193:24 195:21	344:19 347:18	321:25 378:11	grows (1)	64:8 69:12 72:8
197:13 198:4,9,19	349:14 366:15,17	382:5	314:19	77:24 79:13 131:14
199:7,8,9,12 217:22	387:23 389:3 391:6	greater (1)	GSK (23)	149:13 157:25
				-
	-	-	-	-

r		
167:14 170:4 178:3	Howword (5)	106:14
	Harvard (5)	
183:24 189:23,24 191:13 197:9	106:6 391:18,19 392:4 396:7	<b>hefty (1)</b> 81:19
202:25 209:5	harvest (2)	held (3)
202.23 209.3	343:15,17	10:13 68:17
231:15 234:8	harvested (1)	hell (2)
241:18 264:13	343:18	132:7 345:16
273:15 278:14	hate (1)	help (6)
282:6 288:16 296:5	219:17	13:6 67:24 1
299:9 300:3 301:9	Havrix (1)	177:15 216
302:7,8 305:7,15	329:7	342:15
309:20 317:3	HB (6)	helped (4)
340:23,23 349:14	4:24 149:4,6,15,24	89:21 394:11
366:15,17 389:3	164:6	helpful (1)
397:7	head (5)	374:11
handed (3)	15:8 70:17 71:6	hemophilus
49:20 184:12 265:3	385:25 386:11	224:6
handicap (1)	headquartered (1)	henceforth (
348:23	10:17	133:25
handicapped (4)	headset (1)	hep (13)
221:15 347:4,6,10	161:8	29:21,22,23
handicaps (1)	health (53)	32:8 33:21
348:24	4:12 6:8 8:23 42:11	210:18 211
handing (4)	49:3,14,23 51:3,21	361:7,10
184:5 227:14 289:6	51:22 53:6,16 54:3	hepatitis (44
308:20	54:8 55:19 74:14	28:4,14 29:1
handle (1)	109:2 110:9,21	32:17 33:1
321:23	112:17 115:6,9	36:14,17,1
handwritten (2)	128:7 139:19	153:9 154:
234:4,8	141:21 144:6 224:4	155:6 157:
hang (1)	249:5 255:20 256:9	159:18 163
400:24	256:22,24 257:3,25	164:6,13 2
hanky-panky (1)	258:23 260:2	210:5,21 2
132:3	263:15 270:15	211:24,25
happen (9)	271:5 273:17,23	224:9,16 2
153:2 175:17 181:2	275:16 278:19	237:17 269
204:20 237:15	358:10,22,23 380:4	311:22 312
259:22 303:4	380:8 387:9 391:9	322:17 329
398:11,13	391:15 398:20,23	361:12 363
happened (6)	healthcare (2)	364:6
15:18 146:25 167:9	380:10 391:19	hesitate (2)
173:2,4 283:2	healthy (8)	63:5 68:9
happening (1)	151:7 203:11,14	HHS (14)
152:24	325:18,25 326:11	108:25 110:2
happens (3)	326:18 327:9	114:9 115:
123:17 141:24 312:22	hear (5)	231:6 251:
happy (5)	226:7 244:25 253:14	391:23 392
131:15 176:14 206:11	267:15 268:14	Hib (11)
298:21 385:7	heard (6)	28:20 30:15
hard (4)	15:10 26:7 92:9,12	33:22 34:3
75:12 76:3 94:20	351:25,25	183:13 361
195:15	hearings (1)	361:24
harmless (1)	135:22	Hiberix (1)
334:20	Heart (1)	183:13
harms (1)	344:13	hide (1)
142:18	heavily (1)	366:4
	I	I

321:8 6 40:12 6:19 1,14,17 (1) (1) 304:7 30:9 31:5 149:2 1:2,19 I) 9 32:12 257:24 5.18 8 85:24 5,19,23 6,16 128:15 3:2 164:2 09:22 11:11.17 212:3,11 36:3 9:16 131:17 2:49:8 275:17 3:25 68:15 182:22 2,5,16,23 19,19,21 7 306:5 81:24 2:5 33:19.20 177:18 1:23,24

high (11) 97:18 267:5 283:21 358:24 363:20 377:6 384:9,11 385:6,12 386:12 higher (4) 104:11 200:2 225:2 358:20 highest (2) 310:5 377:20 Highlights (5) 4:23 5:4,9,11,17 highly (3) 7:12 99:8 298:25 Hinman (2) 51:6 53:21 historical (1) history (5) 20:16,19 27:23 271:4 271:7 **HIV (6)** 90:11 269:16 367:16 370:20,24 371:6 HMOs (1) hold (4) 55:23 284:8,8 358:4 holder (1) holding (2) 230:9 294:19 holds (2) 42:11 61:5 home (1) homeschooled (1) honesty (1) Hong (1) honoraria (2) 75:14 76:7 honors (1) Hookipa (2) 92:21,22 Hooper (2) 8:19 366:7 hope (5) 1:11 2:8 10:14 59:16 367:11 hopefully (6) 48:9 93:7 222:15 224:2 278:6 281:13

Hopkins (2) 83:14 208:25 Horse (2) 7:9 298:13 hospital (14) 16:20 57:24.25 61:20 62:8.20 63:8 64:12 74:8 75:18 76:12 83:6,9,10 host (3) 119:7,18 233:15 hour (3) 25:23 321:11,15 hours (6) 151:19 167:4.6.9 168:18 178:14 House (2) 129:22 131:2 HPV (10) 31:21 37:3,6 183:22 184:8,10,19 187:18 194:19,22 HRSA (4) 110:19 111:2 114:8 231:6 huge (1) 319:16 human (67) 4:19 8:11,17 31:17 78:7 100:14 102:5 102:14 109:2 115:7 115:9 120:14.22 121:4,18 289:16 310:6 313:21,24 322:14,19 323:23 324:2,8 325:3,5,6,6 325:7,8,8,15 326:8 326:20,25 327:4,6,8 327:12,13,17,24 328:6,7,10 329:5,9 330:8,19,19 333:13 335:11 337:6 338:4 338:7,8,17,18 339:13 342:16,17 348:11 349:7,25 370:19 375:2,3 humans (15) 100:15 101:3 102:7 118:19 120:16 121:16 122:6,7,8,14 297:4 300:15 307:9 376:4,7 humoral (4) 138:12,13,16,17 humors (1) 138:21

### immunologically (1) hundred (9) 167:18 170:7 19:7 39:6 46:13 56:4 73:14 39:2 41:18 43:4,10 Inaudible (3) 177:25 184:3 59:17 66:13 71:9 146:13 71:4 199:16 267:25 189:21 197:7 98:8 103:11 146:2 immunologists (1) 248:12 249:17 274:4 334:14 346:2 202:23 217:13 159:10 224:5 189:18 inception (1) immunology (3) hundreds (1) 227:12 231:18 287:16 311:14 247:24 incident (2) 263:9 241:16 264:11 312:3 320:2 336:6 140:19.22 287:13 hvdro (1) 273:13 278:12 368:21 379:22 immunosuppressed... 185:5,12 187:4 282:4 288:14 289:4 immediate (2) inclined (1) 379:15 296:3 297:6 299:7 167:7 189:9 Hydroxide (2) immunosuppressio... 365:7 299:17 301:7 302:5 immediately (2) include (9) 7:4,17 204:20 Hydroxyphosphate ... 305:5 308:24 175:17 384:10 immunosuppressiv... 24:14 40:19 134:10 309:18 316:25 immortal (2) 203:8 204:19 187:5 148:11 175:9 196:4 340:21 348:6 hygiene (1) 323:10 324:24 impact (5) 266:2,12 334:22 382:2 349:12 366:13,20 immune (48) 117:3 138:22 139:18 included (11) 388:9 391:4 397:10 hyperactivity (1) 7:19 97:12 136:18,23 306:18 330:2 152:23 160:16 175:8 identified (4) 137:5,6,8,9,18,20 impacts (1) 280:14 175:10 176:6 hypersensitive (1) 290:9,13 393:6,9 137:25 141:10,21 195:24 312:23 140:9 identify (8) 151:15 161:17.17 imperative (1) 329:15 343:12 151:16 hypersensitivity (1) 242:10 243:22,25 188:20 264:8 285:5 387:10 344:5,7 151:22 244:3 266:15 285:7 293:24 294:2 implicate (1) includes (5) hypesthesia (1) 288:22 290:10 295:7 301:20 28:3 138:3 183:21 380:7 291:16 303:15 304:3,6,13 205:7 357:22 152:18 implication (1) hypothesis (2) idiot (1) 304:16,17,21 200:21 including (22) 8:15 370:16 68:11 310:13.14 336:24 implications (1) 43:23 50:17 81:24 **IGA** (1) 337:4,6,12,14,20 380:4 103:2 141:7 151:17 hypothetical (2) 381:16 376:21 377:3,10,11 implies (2) 152:3,13,14 161:21 141:15 255:14 **IGG**(1) 377:12,19 383:20 345:15 350:4 173:14 226:19 381:13 384:16 386:9 229:10 252:13 importance (1) immune-related (1) **IAC**(1) ignorant (1) 358:24 259:16,18 266:21 310:21 18:25 293:5 294:6 306:19 4:16 important (15) immune-system-rel... ICD-9 (2) ignore (1) 71:22 74:13 99:5 310:14 388:15 264:15,23 255:7 310:22 109:18 120:8 inclusion (1) ignored (1) immunity (25) 243:14 277:23 345:8 **ICD-9-CM**(1) 222:8 94:2,8 95:18 99:19,23 286:10 302:23 income (4) 265:4 **ICD9-CM** (1) II (3) 99:24 103:4 118:10 304:15 326:11 58:6 68:11 105:4 5:8 170:10 328:17 138:6.8.10.12.14.16 352:5 380:4 386:13 365:11 6:7 139:7 140:25 285:9 **IIV** (1) 386:14 incorporated (2) idea (26) 29:4 285:10,16 376:24 10:17 175:4 38:19 43:6 47:4,7,9 impossible (2) 377:5,13 381:16 64:22 73:9 92:15 IL-1 (1) 196:9 270:20 incorrect (2) 103:9 104:21 294:7 382:8 385:17 improper (1) 105:14 209:12 immunization (9) 116:21,22 117:8,9 IL-17(1) 257:9 increase (5) 4:16 71:13 72:10 73:7 104:10 146:4 188:16 129:15 130:15 294:7 improve (2) 99:18 111:6 206:21 189:16 327:16 IL-2(1) 96:19.25 294:5 302:19 223:9 362:8 342:18 345:19 294:7 improved (1) Increases (1) IL-6 (6) immunized (2) 303:11 371:21 374:19 221:13 294:7 302:19,21 141:16 375:17 increasing (3) 377:2 384:22 impurities (5) Immunodeficiency ... 50:11 280:7 362:15 387:25 395:7 303:5,10 304:15 315:23 336:9,12,16 ill (2) 8:17 indefinitely (1) ideal (3) 336:18 immunogenic (1) 214:3 251:24 277:22 98:15 101:14 inactivated (8) 315:9 illegible (1) 85:24 independent (2) ideally (3) 5:6 30:21 35:25 immunogenicity (1) 234:9 232:11 399:21 238:17 281:13,17 165:14,16 167:16 identification (46) illness (1) 188:16 380:19 381:8 INDEX (7) immunologic (1) 47:25 49:18 52:7 64:6 289:18 inadequate (5) 4:2,6 5:2 6:2 7:2 8:2 290:3 9:2 illuminate (1) 69:15 72:5 77:22 154:9 163:22,24 immunological (2) 59:14 India (3) 79:11 131:12 234:21 242:24 146:23 283:17 imagine (19) 22:25 24:2,5 149:11 157:23 inasmuch (1)

	1	1	1	
Indiana (1)	262:20 263:8	211:8,15,16 212:7,7	117:19	346:16 399:9
298:13	inert (7)	224:7 237:18	injuries (8)	InstitutMondor (1)
indicate (3)	179:10,13,24 187:13	319:14 360:13	118:13 125:10 215:23	7:24
55:5 71:7 174:17	207:4 213:25	influenzae (2)	227:21 230:16	insufficient (8)
indicated (15)	239:14	28:5 33:24	234:11 235:23	219:7,21 237:19
44:4 55:2,6 61:23	infancy (2)	inform (1)	261:25	252:19 254:20,25
63:7 75:7 77:4	96:6,7	85:11	injury (14)	324:12 379:4
185:13 224:17	infant (3)	information (20)	114:22 115:4,13,25	insurance (1)
230:6 237:21,23	99:20,21 100:4	4:23 5:4,9,11,17	116:4,25 117:15,23	257:24
333:17 335:6,14	infants (5)	117:18 216:3,6,13	118:2,6 213:19	intellectual (2)
indicates (3)	6:16 12:11,12 99:16	216:23 225:4	231:7 291:18	58:2 68:18
220:9 235:17 397:22	180:14	227:24 231:10	387:14	intelligence (1)
Indicating (1)	infect (1)	247:23 249:6,22	Inn (1)	109:14
123:4	101:7	252:14 255:4	2:7	intend (2)
indicative (1)	infected (16)	288:22 329:14	innumerable (1)	364:24 365:3
185:5	98:14 101:10 136:22	informed (2)	17:23	intended (4)
indirectly (4)	138:4 139:12,14	130:13 164:22	Inovio (1)	137:2,4 188:20
40:6 41:2 59:2 221:9	140:2,3,7 141:12	ingest (1)	88:16	333:15
individual (21)	164:13 223:16	294:14	inquire (2)	intends (1)
100:11,18,19 101:14	332:3 375:19	ingredient (2)	46:10 56:20	400:8
101:21,23 102:8	381:10,23	334:17 335:10	insert (24)	intensively (1)
140:13,17 141:17	infecting (1)	ingredients (9)	149:15 150:9 158:3	306:15
141:18,20 174:24	138:23	313:16,20 317:10,21	161:11,14 163:2	intention (1)
223:14 290:5 308:2	infection (15)	335:13,16,25 337:8	167:3,15 170:9	368:17
326:18 330:3	100:6 102:18 139:17	345:10	171:3 174:13	interact (4)
345:16 381:12	139:17,21 140:10	inherently (2)	176:10,19 177:8	139:6,8,10 289:19
394:3	140:13,16,18 141:4	239:12 358:5	178:5,20 184:6,25	interacted (1)
individual's (1)	182:14,16,19	inheritable (1)	201:14 203:3 312:7	109:22
139:19	375:21 376:16	330:15	312:14 329:12,22	interest (20)
individuals (38)	infections (2)	Inhibition (1)	insertional (1)	4:21 40:7 41:2 42:5
99:8 102:22 107:3,6	141:25 183:4	303:10	330:4	46:18 63:24 64:12
108:10 114:25	infectious (2)	initial (1)	inserts (4)	64:19 65:4 66:18
120:23 121:5	214:20 249:9	349:24	184:16 206:10 207:12	69:8,20,23 70:15
125:24 126:3	infects (2)	initially (2)	311:25	106:12 107:16
132:19 175:15	119:8,10	47:18 97:19	insist (6)	126:6 129:19
176:21 181:17,19	infer (1)	injected (17)	166:23 171:9 173:24	130:16 131:21
181:20 185:18	246:18	292:10 294:5,15	206:23 362:22,22	interested (7)
195:7 232:7 233:22	inferences (1)	295:17,22 297:3,4	instance (2)	22:2 38:7 47:12
266:13 288:23	379:2	297:22,23 299:12	148:14 396:7	107:12 131:18
289:12 309:3 332:4	Inflammation (2)	299:23 300:6	Institute (16)	272:2 365:11
338:7 345:13 347:6	310:25 311:6	302:25 304:24	61:2 68:16 69:19 70:9	interesting (2)
350:12 370:25	inflammatory (2)	307:11 334:11	70:19 75:18 76:13	256:18 383:4
371:2 375:17	191:20 302:21	335:2	114:13 193:6	interfered (1)
379:14 381:8	influence (9)	injecting (6)	217:20 227:19	285:10
392:24 393:2,17	14:10 101:19 119:15	292:14 296:19,24	251:7 303:25 341:8	interleukin-6 (2)
394:5	137:11,23 139:16	297:18 330:8,18	341:10 373:11	303:16 304:14
induce (5)	140:8,14 275:8	injection (12)	Institutes (3)	Internet (1)
302:20,24 337:3,13	influenced (1)	182:2,4 186:3,6,6	55:18 110:8 128:7	134:10
337:20	308:2	208:23 294:9,16,17	institution (4)	interpretation (1)
induced (3)	influences (1)	294:22 329:20	46:7 54:24 55:14	281:6
189:12 190:24 193:15	285:15	363:14	303:25	interrupt (1)
induces (1)	influential (1)	injections (5)	institutional (1)	244:10
293:24	106:4	7:4,15 226:3 294:10	232:15	intervening (1)
industry (8)	influenza (16)	294:23	institutions (8)	289:17
56:16,19 83:19 130:4	29:9 34:22 35:6,12	injured (5)	55:19 56:7 58:10	interview (1)
130:10 132:23	183:7 210:21 211:3	19:5 115:2,5 117:12	191:6 232:13 346:8	92:11
		, í		

intestinal (2)	256:5 272:8,11,18	January (6)	Kaiser (2)	20:12,15,18 26:6,14
381:17,19	288:18 290:6	1:11 2:3 10:15 397:13	221:21 222:13	26:16,17,19 27:13
intimately (1)	IOM's (4)	398:3 402:25	Karen (3)	27:15,16,21,23 28:7
384:17	220:13 241:2,24	Japan (2)	15:7,20 16:12	28:8,8 33:2 34:24
intramuscular (4)	254:24	21:4,21	KARLSTROM (1)	35:18 37:25 38:23
7:14 294:10,17,23	IPOL (7)	Jesus (1)	3:10	39:15 42:21 51:17
introduce (1)	5:6 165:20,24 167:3	59:23	keep (8)	51:24,25 52:3 56:14
10:21	167:16 179:3	job (2)	65:13 130:21 184:15	56:14 59:17,24,25
introduced (2)	314:15	1:25 132:7	270:24 325:25	62:16 63:6,19,20
386:16,19	IPV (26)	jog (1)	326:4,11 327:9	70:16,21 72:2 73:6
introduction (2)	28:24 30:20 35:24	126:19	kept (1)	73:12,14,17,18
6:14 216:11	36:4 165:17 166:3,6	Johns (2)	371:16	75:11 76:3 78:13
intussusception (1)	166:6,12,23 167:11	83:14 208:25	key (1)	81:6 85:12 92:12,16
128:8	167:13 168:20,20	Johnson (2)	122:17	92:19 94:18 96:3
inventor (2)	168:25 169:3,8	37:17,17	kidney (8)	99:4 103:14,15,15
62:10,17	331:20 381:13,22	join (1)	314:5,25 315:2,14,16	103:20 105:9 109:4
inventors (2)	381:24 382:3,8,16	107:9	315:19 331:22	109:4,4 112:19
61:8,9	383:2,7	joint (1)	344:9	116:16 120:21
investigation (1)	IRB (1)	363:15	kidneys (1)	122:22,24 123:5,6,7
103:6	102:6	joints (2)	314:9	124:18 126:7
investigator (2)	Israel (1)	210:11 220:25	kids (2)	134:12 135:21,24
147:24 148:5	193:12	Jonas (1)	276:6 384:15	136:11 141:3 145:2
investigators (1)	Israeli (1)	166:10	Kikwit (2)	147:7,16 149:9
148:10	189:15	journal (17)	356:12,20	154:7,11 155:18
invitations (1)	Israelis (1)	8:12 105:16,18,20,23	kill (4)	157:18 160:10,17
275:6	193:11	106:3,4,8,21 274:18	138:4 139:13,15	162:7 166:2 169:2
involve (4)	issue (22)	296:9,11,13,16	140:7	169:18,21 174:4,9
12:18 243:17 291:4	14:23 20:9,13 65:24	303:18,19 309:25	killed (3)	177:2,16,20 178:15
350:17	106:25 150:16	journalism (1)	142:7,8 293:25	180:14 183:10
involved (24)	155:25 156:6,6	366:10	killer (3)	185:18 186:5,7
26:6 45:7,9 46:7	158:24 222:8	journalist (1)	140:11,14 147:4	190:15 191:9,9,12
54:25 61:20 86:4	267:19,22 269:6,7	366:9	kills (1)	191:17 192:11
89:7 90:5,24 93:5	272:2,25 286:8,10	journals (4)	287:15	196:5,22 200:20
109:9 110:10,13	338:15 357:18	274:19,20 275:3	kind (13)	206:15 211:14
114:15 216:9	370:11	303:20	38:12 42:9 54:11	212:18 214:13
233:23 291:5	issued (7)	judge (2)	116:13 117:22	215:2,4,8,13 222:16
297:10 299:22	215:18 226:25 230:13	165:9 194:23	138:18 190:22	223:25 225:17,25
342:9,10,12,25	244:15 272:22	judging (2)	213:14 226:12	230:23 233:22
involvement (3)	273:3 345:12	192:15 377:4	283:15 320:4 390:8	234:7 235:24 236:2
109:12 111:2 113:3	issues (9)	judgment (4)	398:11	236:13,14 237:16
involves (1)	16:22,23 107:2	106:17 144:7 218:16	kindly (3)	238:14 244:10
275:16	169:13 270:15	275:8	72:11 95:10 130:20	246:11 247:13
IOM (47)	300:17 358:10,22	June (9)	kinds (7)	250:21 255:12,15
114:11,15 153:16,21	358:23	4:22 23:3 80:8 81:2,9	121:19 207:10 247:19	255:17 256:14
154:14,24 215:18	it'd (1)	81:15 126:19,22	252:13 256:14	257:3 258:4,24
216:6,15 219:3,11	293:11	392:20	293:19 294:6	259:11 260:3
226:25 227:20,25	items (1)	Justice (1)	Kinrix (1)	262:11,18 263:19
228:14 229:22	50:15	115:22	317:13	263:23 267:12
230:2,13 231:10,20			<b>Kivu (7)</b>	269:22 270:4,7
234:5,10 235:22	J	<u> </u>	351:15,16 352:13,24	272:6,21 273:2
236:6 237:16 241:7	J (1)	K-A-V-U (1)	353:9 355:2,17	283:6 287:14,17
241:8 242:3,22	106:6	353:23	Kline (1)	291:15 293:11
243:4,21,25 244:15	Jackson (2)	K-I-N-R-I-X (1)	78:17	294:20 295:19
245:9 247:6 248:21	273:23 278:19	317:14	know (246)	297:15 298:25
248:21 250:3	James (1)	K-I-V-U (1)	13:20 14:2,5,22,25	299:13 300:11
252:15 253:16,16	291:3	351:18	18:5,19,20 19:6	301:22 303:6
1	I	I	I	

304:23 310:11	lady (1)	15:5 224:8	260.4 0 11 15	214.12 10 217.17
	15:7		368:4,8,11,15	314:13,18 317:17
312:2 315:11 318:6		learning (2)	letting (1)	324:20,24 335:21 342:16
318:16 320:11	Lake (1)	277:11 280:14	244:11	
321:14 326:19	3:7	leave (5)	leukemia (1)	lines (6)
328:4,13 329:11	Lancet (1)	177:16 257:9 298:3	256:17	212:13 230:10 279:17
330:18 333:23	52:20	302:13 322:9	Leuven (1)	323:3,5 342:17
334:2,16,21 337:7	land (1)	left (9)	368:2	Linking (1)
339:2,2,4,5,8,10,17	165:5	53:6 74:8 88:12	level (3)	8:16
339:19,21,23 340:4	language (1)	179:24 218:17	266:2 334:16 377:6	liquid (1)
340:11,12 345:18	108:24	305:19 365:18	levels (3)	325:9
346:17,20 353:7,16	large (11)	388:5 397:4	315:10 383:14,18	list (27)
353:18 354:3	122:25 130:8 132:6	legal (5)	liability (2)	17:25 50:15 82:6
356:17 363:21	214:4,6 221:23,23	10:16 26:6 85:10	40:20 118:10	83:11 108:21 148:3
364:11,14 365:9	227:8 239:10	358:8 374:7	liability-free (1)	148:4,12 151:12
368:25 370:21	267:20 399:9	legitimacy (2)	125:2	157:10 162:20
371:17 372:3,17	large-scale (1)	107:4 243:12	liable (1)	176:20 195:19,22
376:24 382:21	290:18	legitimate (2)	125:10	196:10 232:2 266:8
383:4,22 386:7	largely (2)	191:23 252:18	library (2)	268:13 311:8,23
387:18,24 390:9	100:13 288:3	legitimize (3)	367:25 370:6	312:5,10,16 335:10
391:11 393:25	larger (5)	253:6,10,11	license (1)	336:6 337:21
394:2,21 396:24	189:18 200:14 280:22	Leibman (1)	61:15	368:17
399:13,23 400:2,4	280:23 281:14	3:15	licensed (15)	listed (22)
400:12	larger-scale (1)	length (2)	76:22 77:7,18 85:23	48:19 61:7 62:10,17
knowing (1)	277:20	328:12,21	88:7 128:8 129:12	72:15 78:8 83:20
248:22	largest (1)	Leopoldville (9)	142:13 165:12,14	84:15 92:11 107:11
knowledge (14)	50:22	351:14 352:8,23,25	170:21,22 172:11	108:9 114:8 151:12
46:14 56:5,13 103:12	lasts (2)	354:6 356:15 357:3	183:14 238:24	156:8,10 177:8
130:8 132:5 141:5,8	94:4 383:8	370:25 372:24	licensure (14)	190:21 191:4
172:8 221:8 234:3	late (1)	leprosy (5)	88:6,9 127:18 157:7	229:10 336:2,13
237:13 247:22	386:17	250:22,25 251:12	162:17,18 165:13	341:4
374:4	Latin (1)	256:4,6	170:15 173:25	Listen (1)
known (8)	288:3	let's (47)	174:16 175:6	177:14
10:9 22:2 24:21	launching (1)	18:12 21:3 34:13 57:3	176:21 179:25	lists (8)
141:14 208:15	369:14	84:18 105:7 109:16	214:2	72:12 161:16,20
237:13 329:12	Laura (3)	111:18,18 117:19	Liebman (1)	162:5 229:16
360:5	3:12 11:3 14:18	121:25 122:14	10:15	317:10 335:11
Kong (1)	law (3)	133:13 140:4	life (13)	389:23
182:22	13:12 115:6 362:19	148:16 151:5	99:15,20 120:14	literally (1)
	lawsuit (8)	157:15 161:13	143:20,21 164:3,15	131:25
L	12:24 15:2,6,13,14	167:21 173:13	240:3 282:15	literature (3)
L-E-U-V-E-N (1)	16:13 19:21,24	174:14 180:17,22	285:23 288:6	242:10 290:15 399:20
368:2	lawsuits (1)	186:8 198:24,24	363:25 364:6	little (20)
la-la (1)	117:2	205:14 217:10	life-threatening (2)	10:4 14:22 44:24
165:5	laymen (1)	240:17 253:4,4,21	397:24 398:8	174:10 188:19
lab (3)	188:19	274:6 283:24 291:7	lifetime (3)	190:18 200:2
292:10 302:20 305:17	laypeople (3)	298:7 300:12	38:18 139:2 383:3	205:16 214:16
label (1)	15:9 47:3,11	314:24 323:19	likelihood (4)	231:23,24 234:18
379:13	layperson (1)	362:17,17 382:4	223:15 267:4 329:15	239:23 240:18,19
labeled (2)	126:10	392:14 396:14,15	383:23	240:19 251:19
10:7 149:14	lead (3)	396:16 400:15	limitations (1)	288:22 289:25
laboratory (3)	7:4 132:21 290:4	letter (10)	221:8	343:21
306:15 354:15 374:18	leading (1)	7:21,24 8:4 305:15,16	limited (4)	live (6)
Labs (1)	132:16	305:23,25 309:15	37:13 40:20 270:23	142:7,10 146:8,20
89:25	leant (1)	349:15,18	281:3	314:14 323:11
lack (2)	131:20	letters (8)	line (10)	living (4)
230:3 300:14	learn (2)	309:2,5,14 367:24	50:6 74:23 203:20	266:3 268:18,20
			2010 / 1123 203120	
L	•	•	•	•

				Idge 25
220.12		0.0.10.14.14.14.0	100 1 10 1 1 00 1	
329:13	241:4 243:24 245:9	2:8 10:14 146:12	123:1 124:1 125:1	291:1 292:1 293:1
LLC (1)	245:11 258:22	256:17 366:10	126:1 127:1 128:1	294:1 295:1 296:1
40:20	260:2 262:8,12	lunch (2)	129:1 130:1 131:1	297:1 298:1 299:1
LLP (1)	265:2 270:15	148:19 261:19	132:1 133:1 134:1	300:1 301:1 302:1
40:20	275:15,15 284:17	lunchtime (1)	135:1 136:1 137:1	303:1 304:1 305:1
local (3)	286:2 294:24 296:6	136:10	138:1 139:1 140:1	306:1 307:1 308:1
202:12,13 208:23	297:2,11 298:22	lung (5)	141:1 142:1 143:1	309:1 310:1 311:1
locate (1)	299:14 300:5 301:4	324:2,9,17 335:11	144:1 145:1 146:1	312:1 313:1 314:1
235:19	334:12,15 335:5	344:5	147:1 148:1 149:1	315:1 316:1 317:1
located (1)	337:12 367:22	lupus (6)	150:1 151:1 152:1	318:1 319:1 320:1
374:22	369:9 389:8 392:5	152:3 212:3,7 237:17	153:1 154:1 155:1	321:1 322:1 323:1
logic (3)	392:14	237:18,24	156:1 157:1 158:1	324:1 325:1 326:1
194:25 255:11,11	looked (20)	lupus-like (1)	159:1 160:1 161:1	327:1 328:1 329:1
logically (1)	18:5,6,21 19:15 39:18	152:4	162:1 163:1 164:1	330:1 331:1 332:1
249:2	143:19 147:2	luxurious (1)	165:1 166:1 167:1	333:1 334:1 335:1
logician (2)	153:22 154:2,5	107:15	168:1 169:1 170:1	336:1 337:1 338:1
249:19 250:16	188:10 206:20		171:1 172:1 173:1	339:1 340:1 341:1
long (42)	215:23 227:20	M	174:1 175:1 176:1	342:1 343:1 344:1
12:3 25:22 42:11	229:20,21 230:15	М-А-С-R-О-Р-Н-А	177:1 178:1 179:1	345:1 346:1 347:1
87:14 92:9,13 93:23	256:9 292:9 338:14	295:6	180:1 181:1 182:1	348:1 349:1 350:1
94:2 149:6,24 150:3	looking (21)	<b>M-E-R-I-E-U-X</b> (1)	183:1 184:1 185:1	351:1 352:1 353:1
150:15,18,22	15:11 52:17 64:17	228:11	186:1 187:1 188:1	354:1 355:1 356:1
157:18 158:7,23	160:17 165:7	<b>M-M-R</b> (1)	189:1 190:1 191:1	357:1 358:1 359:1
165:23 168:16	173:11 176:10	5:8	192:1 193:1 194:1	360:1 361:1 362:1
169:17,18,21	202:12,14 213:9	M.D (396)	195:1 196:1 197:1	363:1 364:1 365:1
176:25 177:20	217:24 245:18	1:10 2:7 4:4 10:1 11:1	198:1 199:1 200:1	366:1 367:1 368:1
178:17 195:21	257:21 273:7	11:8 12:1 13:1 14:1	201:1 202:1 203:1	369:1 370:1 371:1
204:18,22 320:18	275:16 287:16	15:1 16:1 17:1 18:1	204:1 205:1 206:1	372:1 373:1 374:1
321:21 349:4 351:6	291:5 292:25 293:4	19:1 20:1 21:1 22:1	207:1 208:1 209:1	375:1 376:1 377:1
352:24 353:6,9,24	300:21 360:25	23:1 24:1 25:1 26:1	210:1 211:1 212:1	378:1 379:1 380:1
356:20 359:19	looks (1)	27:1 28:1 29:1 30:1	213:1 214:1 215:1	381:1 382:1 383:1
361:16,18,24 383:8	83:8	31:1 32:1 33:1 34:1	216:1 217:1 218:1	384:1 385:1 386:1
long-lasting (1)	Lori (4)	35:1 36:1 37:1 38:1	219:1 220:1 221:1	387:1 388:1 389:1
385:17	1:5,5 10:9,9	39:1 40:1 41:1 42:1	222:1 223:1 224:1	390:1 391:1 392:1
long-term (1)	loss (1)	43:1 44:1 45:1 46:1	225:1 226:1 227:1	393:1 394:1 395:1
214:10	209:6	47:1 48:1 49:1 50:1	228:1 229:1 230:1	396:1 397:1 398:1
longer (14)	lot (29)	51:1 52:1 53:1 54:1	231:1 232:1 233:1	399:1 400:1 401:1
45:2 97:12 106:15	22:7 68:4,12 75:7	55:1 56:1 57:1 58:1	234:1 235:1 236:1	macrophages (4)
133:17 158:16	81:23,23 100:14	59:1 60:1 61:1 62:1	237:1 238:1 239:1	295:3,6,7,15
159:24 163:19	103:2 135:17	63:1 64:1 65:1 66:1	240:1 241:1 242:1	main (3)
206:19 233:5	191:15 192:12,15	67:1 68:1 69:1 70:1	243:1 244:1 245:1	55:11 71:20 99:11
351:10,11 374:19	203:8 207:7,8,8	71:1 72:1 73:1 74:1	246:1 247:1 248:1	maintained (1)
384:16 387:24	214:15 223:13	75:1 76:1 77:1 78:1	249:1 250:1 251:1	388:11
longer-lasting (2)	231:13 238:10	79:1 80:1 81:1 82:1	252:1 253:1 254:1	major (8)
93:25 96:23	244:11 252:9 272:5	83:1 84:1 85:1 86:1	255:1 256:1 257:1	35:11 37:19 42:20
look (56)	293:4 294:14	87:1 88:1 89:1 90:1	258:1 259:1 260:1	55:19 73:10 230:4
18:8 31:24 72:11	371:20 377:16	91:1 92:1 93:1 94:1	261:1 262:1 263:1	233:2 365:14
116:16 146:14	386:6 387:21	95:1 96:1 97:1 98:1	264:1 265:1 266:1	majority (4)
149:22 157:15	lots (5)	99:1 100:1 101:1	267:1 268:1 269:1	130:2 143:12 193:12
160:10 162:14	156:8 192:11 237:18	102:1 103:1 104:1	270:1 271:1 272:1	337:22
163:3 174:15,24	313:25 372:9	105:1 106:1 107:1	273:1 274:1 275:1	makers (4)
176:5,17 178:21	love (1)	108:1 109:1 110:1	276:1 277:1 278:1	104:19 108:11 233:3
180:17 191:3 198:5	370:13	111:1 112:1 113:1	279:1 280:1 281:1	365:15
199:9 204:19	low (3)	114:1 115:1 116:1	282:1 283:1 284:1	making (18)
206:23 213:14	7:18 258:5 396:7	117:1 118:1 119:1	285:1 286:1 287:1	4:22 13:15 117:7
234:17 235:3,14	lower (5)	120:1 121:1 122:1	288:1 289:1 290:1	225:5,6 232:13
	I	<b>I</b>	l	I

	•			
233:25 244:8	167:14,18 170:5,7	290:15,24 291:14	385:22 386:6,10	130:3 132:19
247:19 287:5 314:9	177:25 178:3	293:7	measured (2)	135:13 270:16
326:2 340:19	183:24 184:3	MCR (1)	50:22 148:10	350:6
342:11 359:25	189:21,23,24 197:7	11:21	measuring (1)	membership (1)
380:2,3,13	197:10 202:23	mean (82)	376:25	50:11
malpractice (1)	203:2 217:13,16	21:5 25:4 29:8,9	mechanism (1)	memorize (2)
257:7	227:12,15 231:16	35:15,21 39:22	238:2	32:10,16
mammals (3)	231:18 241:16,18	40:11,19 41:11	mechanisms (3)	memory (5)
121:16,18 122:13	264:11,14 273:13	56:13 62:15,20	118:22 139:13 290:4	44:25 105:13 126:20
manufacture (10)	273:16 278:12,15	92:10 94:9 95:19	mechanistic (2)	283:25 385:6
32:24 34:3 35:12 37:6	282:4,6,7 288:14,17	97:21 102:25 119:7	212:9 289:12	MenACWY (1)
37:14 74:4 125:6,13	289:4,6 296:3,5	120:11 122:2	media (5)	361:14
126:12 326:12	297:6,9 299:6,17,20	139:10,22,25	8:7 10:7 50:10 317:6	MenB (1)
manufactured (8)	301:7,10 302:5,8,8	144:15,16 146:7	336:3	361:21
32:12,14,18,21 33:5	305:5,7,16 308:21	153:12 156:5	medical (23)	meningitis (1)
35:9 36:24 328:24	308:23 309:18,21	158:10 177:7 181:3	18:19 20:2,4,15,19	180:15
manufacturer (35)	316:25 317:4	182:7,13 187:16	27:23 37:25 73:10	meningococcal (2)
32:8 33:17 34:5,8	336:13 340:21,24	188:18 192:3	73:21,23 83:23	36:21,24
35:13 36:2,6,7,9,11	347:19,23 348:6	195:20 207:14	106:4,6,18 107:3	meningococcus (2)
36:18,22 37:4,4	349:12,14 366:13	210:2,3 213:4,6	123:20 192:20	31:16,21
124:15 125:18	366:16,17,20	214:20 216:12,22	194:11 211:5	mentally (4)
128:9 149:15 150:9	367:10 388:9 389:4	223:13 225:23	264:24 271:7	347:3,6,9 348:16
158:2 160:22	391:4,7 396:15	233:4,5 237:10,13	303:24 391:19	mention (4)
161:14 163:2 167:3	397:7,10	238:12 244:10	medications (1)	151:6,8,10 153:6
167:15 170:9 171:3	market (12)	250:22 252:12,22	14:9	mentioned (13)
176:19 177:8 178:5	62:5 104:10 114:5,6	254:9,12 255:4	medicine (19)	55:9 93:14 145:4
179:25 184:6 203:3	125:2 128:9 142:21	257:21 266:7	8:9,13 105:16 106:3,8	151:25 153:8
206:10 366:3	143:7 149:2 169:10	267:15,23 278:4	106:14,21 114:13	233:20 256:21
manufacturers (22)	333:22 334:2	285:8,9 313:3,23	114:14 140:22	271:22 285:12
33:11 34:11,12 35:5	marketed (1)	314:18,19 317:23	191:6 193:8 208:25	291:15 306:2
35:11,21 36:16	156:15	326:17 330:2 345:2	217:20 227:19	307:22 399:17
37:13,16,19 38:5	married (1)	358:13,15 373:14	247:24 251:7	Merck (30)
42:20 44:18 72:16	26:10	374:7,18 378:21,23	298:14 310:2	32:14,21 33:8 36:7,8
73:19 105:2 107:21	matching (2)	meaning (7)	meet (5)	36:12 37:6,9 42:14
118:10 135:3 180:6	259:12 353:17	120:16 125:17 136:21	24:12 83:4 136:3,10	42:22,25 43:5,14
330:14 335:21	material (10)	311:15 316:9 332:2	148:6	45:25 54:4 57:15,17
manufactures (7)	119:11 205:16 270:14	393:17	meeting (17)	57:18 61:15,17
33:7,8,9,12 34:24	315:14,22 320:4	means (19)	8:20 24:14,16 127:2,6	72:19 77:7,11,14,17
35:25 36:12	326:25 328:7 372:7	40:15,22 99:7 138:21	127:8,11 128:20	84:9,19 149:4
manufacturing (5)	372:9	147:21 154:17	131:23,24 132:2	169:15 233:11
125:3 315:24 325:20	maternal (2)	158:18 182:5	133:6,16 134:6,9	Merck's (3)
325:23 336:9	303:15 322:23	185:10 218:10,15	359:6 400:19	69:20 103:7,21
Maple (1)	Matheson (2)	234:24 236:9	meetings (19)	Merieux (4)
3:6 March (1)	1:5 10:9	254:14 257:15	22:14,14 24:24 25:14	228:5,7,10 233:6
March (1)	<b>matter (8)</b>	295:13 311:3 338:7 373:15	71:19 75:14 76:7	mess (2)
24:24	10:8 12:4 46:14 53:21	373:15	87:23 88:4 109:16	101:15,17
mark (4)	180:6 255:11,11	<b>meant (6)</b> 33:21 177:10 180:25	111:7 132:17 133:5	met(1)
299:2,3 349:10	364:25 Mauraan (6)	235:5 240:10,10	133:18,25 134:17	15:17 Motostagos (2)
366:11	<b>Maureen (6)</b> 1:24 2:9 10:4,19	<b>measles (25)</b>	$136:2,5\ 230:5$	Metastases (2)
marked (100)	402:9,21	28:5 112:2,3,4 146:8	meets (2)	7:8 298:12 Matra (2)
47:22,24 48:7 49:13 49:17,20 52:5,6	402:9,21 Mawson (1)	146:11 147:3 171:9	131:22 232:14	Metro (2)
49:17,20 52:5,6 64:5,8 69:12,14	280:25	171:11,14,15,16	<b>member (5)</b> 88:9 92:12 114:16,18	25:21,23
72:4,8 77:21,25	<b>maximum (2)</b>	173:16 175:3 192:5	127:16	MI (2) 3:7,12
79:10,14 131:11,14	303:6 304:23	192:9 256:22 260:9	members (8)	5:7,12 mic (3)
149:11 157:23,25	Mayo (4)	261:3 285:13,13,15	125:21 126:11 130:2	130:21 135:4,23
177.11 137.23,23	114 JU (T)	201.5 205.15,15,15	123.21 120.11 130.2	130.21 133.4,23
	1	1	1	•

mice (7)	305:19 388:3 397:4	57:6 111:20 130:6	move (7)	296:11 403:2
7:14 297:10,19	400:5	184:12 241:21	18:15 205:15 248:13	named (3)
·	misconceptions (1)	270:13 279:3,7	250:8 298:8 320:18	
299:12,22,24 300:16	19:2	332:16 335:6	374:24	26:4,12 189:15
				names (12)
Michael (4)	<b>misinformation (1)</b> 379:20	Monday (2)	MPSV4 (1)	18:9,11 26:7 32:10,16
1:8 3:6 10:10 11:4		400:20,22	361:14	32:23 33:11,14,16
Michigan (3)	missed (4)	<b>monetary (1)</b> 65:12	MRC-5 (11)	36:15 125:22
1:2 10:11 400:14	27:6,25 161:10		322:14,18 323:3,16	382:21
microbiome (2)	360:17	<b>money (17)</b> 38:20 39:12,17 41:3	324:6,12 328:25	nanograms (1)
215:9 289:16	missing (2)	/	335:22 339:11,14 339:16	328:18
micrograms (6)	82:5 83:11	42:5 56:9 59:7		<b>Nanoparticles (2)</b> 7:7 298:11
307:12 329:4 334:5	<b>Mission (1)</b> 4:9	65:11 66:11 68:4,12 74:18 76:24 124:21	<b>multiple (18)</b> 34:10,12 152:11,12	
334:10,14,24				<b>nasopharynx (2)</b> 381:25 382:6
microorganism (1) 118:16	<b>misspeak</b> (1) 55:6	233:24 275:4,8	153:7,8,14 154:2,18	
	<b>mm-hmm (52)</b>	<b>monitored (3)</b> 149:25 158:9,18	154:22 155:6,24 156:9 161:22 267:4	<b>national (9)</b> 55:18 110:8 113:18
<b>microphone (2)</b> 45:14 130:18	13:10,14,18 26:23		268:8 274:20	
	, ,	<b>monitoring (2)</b> 150:13 158:19	395:14	114:13,16,21 117:14 128:7 232:9
<b>middle (3)</b> 228:4 279:10 392:9	32:20 47:21 67:23			
	72:14 80:20 81:25	<b>monkey (7)</b> 314:5,9,10 315:13,15	<b>multiplies (1)</b> 381:20	<b>natural (6)</b>
migraine (1)	107:19 118:14			6:17 98:16 140:11,14
161:22	121:13 156:23	315:22 331:25	multiply (5)	141:24 147:4
milk (3)	161:19,24 186:20	<b>monkeys (3)</b> 314:14,14,14	118:19 314:24,25 315:3,5	Nazi (1) 350:4
318:17,19,20	188:8 193:9 198:8			
milligrams (2)	203:5,19,24 204:4 206:6 216:2 217:21	<b>monosodium (1)</b> 337:11	<b>multiplying (1)</b> 118:23	<b>NDD (5)</b> 279:14,24,25 280:7
305:3 313:4		month (5)		· · · · ·
million (23)	218:6,9 219:13,18 228:21 229:3 235:9	22:25 24:22,23 81:6	<b>mumps (9)</b> 28:5 111:18,19 192:5	280:11 near (1)
39:9,13,14 64:13 65:4	254:21 259:15	182:6	192:9 269:19,20	225:15
67:6,8,10,22 68:4,7	265:9 270:3 271:8	months (25)	384:6,14	
70:12,22 74:6 245:5	271:12 276:8 278:8	34:21 80:19 99:15,20	<b>muscle (4)</b>	<b>nearly (1)</b> 97:23
246:19 252:12	279:9 288:25		7:11 152:18 298:18	necessarily (12)
350:18 386:21	292:19 304:9	143:20,21 163:12	329:23	119:13 130:13 153:13
387:3,16 392:23 393:13	311:13 313:12	163:13 196:7,12 203:23 205:17,19	529.25 Muslim (1)	
millions (18)	344:4 350:8 370:4	205:21,23 240:6	319:21	158:10 192:3 246:20 264:9
59:9 60:18 63:4	394:6	203.21,23 240.0	mutagenesis (1)	312:24 336:21
103:10 125:2 166:4	MMR (28)	294:10,17,22	330:5	358:17 377:2
166:11,24,24	29:16 30:25 36:5,9	307:13 343:7 351:7	myelitis (5)	398:16
167:12 171:8,20	58:19 169:14,19,22	351:8	152:12,13 162:4	necessary (3)
214:8 263:10 329:8	170:9,15 171:11	morning (3)	210:19 211:6	85:2 171:5 287:13
330:8,19 331:4	170:0,15 171:11	11:16,23 320:14	MyMetics (2)	need (24)
mimicking (1)	176:19 177:3,8	mortality (8)	87:2,3	118:3 155:17,20
141:24	208:18 209:14	146:4,9,12 147:6	07.2,5	157:3 162:9 176:8
mind (6)	210:8 218:2 219:11	256:23 283:21	N	225:7,12 230:11
99:5 206:18 244:11	220:5,9 245:9	284:21,23	naked (1)	239:10 259:5,19
321:18 332:15	328:17 335:8,8	mother (3)	313:9	267:21 268:2,7
349:4	Model (1)	26:25 99:22 164:13	name (40)	294:2 301:3 320:11
mine (1)	303:11	mother's (1)	4:7 5:3 6:3 7:3 8:3 9:3	320:17,18 345:13
16:17	models (2)	345:18	10:15 11:24 15:7	383:13 386:5 401:7
Miniscule (1)	293:3 306:18	mothers (1)	25:25 26:8,13,20	needed (4)
313:6	modern (3)	350:9	32:8,15 33:3 34:5,7	18:18 95:8 160:25
minor (1)	140:19,22,22	motive (1)	36:2,3,6,10,22 37:4	359:15
290:17	molecule (1)	366:4	73:10 82:25 83:3	needs (5)
minute (3)	118:25	motor (4)	89:17 133:24 134:4	221:5 238:19,23
198:9 273:25 274:3	moment (19)	7:5,5 297:19,19	138:19,20 228:4	283:16 321:3
minutes (7)	23:3,5 25:9 29:5,6,7	Mouse (1)	232:22 270:11	negative (3)
25:24 88:12 300:4	29:11 32:15 48:4	303:11	289:18 291:22,25	238:10 274:23 338:24
25.27 00.12 500.7	2,	505.11	207.10 271.22,23	230.10 27 T.23 330.2T
L	•		•	

	1	1	1	1
neighborhood (1)	Nieusma (67)	395:11	399:9	136:5 150:4,21
45:11	3:12 10:2 11:3,3	nonprofit (1)	numeral (4)	164:13 210:17
neither (1)	14:18 18:13 25:3	55:13	190:18 231:24,24	396:11
280:10	39:22 48:2,5,11	nonprofits (3)	234:16	occurred (2)
nerves (1)	51:16 52:16,20,24	38:6,9 46:19	numerous (4)	159:19 172:23
209:7	53:3,8,13 64:14	nonsense (2)	107:24 108:18 109:15	occurrence (1)
nervous (4)	69:25 70:3 72:23,25	47:5 170:25	173:17	117:21
152:7 161:20 209:8	77:19 78:2 79:15,17	Nope (1)	nutrient (1)	occurring (3)
307:3	79:20 130:19,23	241:22	317:24	164:14 165:8 180:12
networks (1)	159:22 161:6,8	normal (1)	NVAC (2)	occurs (4)
50:11	167:25 184:15	314:20	113:17 114:9	140:18 210:17 212:17
neuritis (8)	248:12 249:17	normally (4)	NY (1)	304:17
161:23 162:3 208:21	250:7 273:25 274:3	56:20 112:22 135:16	3:4	October (2)
208:22,25 209:3,11	274:11,12 297:13	343:9		133:14 392:20
229:11	297:15 302:14,17	nose (1)	0	odds (4)
neurodevelopment	309:9 320:8,20,23	276:19	Oakland (2)	275:24 276:5 280:2,7
277:15	321:6,13,21 322:3,5	not-for-profit (1)	1:2 10:12	offer (2)
neurodevelopment	322:8 348:3 351:20	46:6	oath (1)	53:21 116:25
6:12 278:23 280:12	351:21 387:24	not-uncommon (1)	13:12	offered (1)
301:25	388:6 400:12,21	209:24	objected (1)	397:18
neurological (6)	401:2,7,9,12	Notary (4)	350:3	offering (1)
150:23 159:2 225:3	NIH (9)	2:10 402:10,23	objection (7)	60:11
304:4,7 306:19	25:14 55:23 56:8	403:25	40:2 51:18 159:23	offhand (7)
neuron (2)	110:7,11,15,16	note (3)	167:25 168:11	122:22 157:21 166:2
7:5 297:20	114:8 306:7	173:9 235:13 297:24	250:11 357:16	169:24 176:4
neurons (3)	NIH-sponsored (1)	noted (6)	<b>Objection's (1)</b>	177:23 315:17
310:17,18 313:18	24:23	40:2 51:18 160:3	160:3	office (2)
neuropathy (4)	nine (8)	168:11 250:11	objections (3)	322:9 389:20
152:14 161:25 209:4	82:4 96:13 184:24	402:13	345:7,11 402:13	officer (1)
209:5	185:4 190:18	notes (4)	objective (3)	109:14
Neuroscience (1)	195:12 196:7 219:8	130:17 173:11 261:14	74:18 304:21 360:2	official (2)
303:18	nitrate (2)	402:14	objectivity (1)	84:18 336:2
neurotoxicity (2)	334:22,23	notice (1)	232:15	officially (3)
7:18 306:21	<b>nodosa (1)</b> 152:5	320:25	observation (2)	87:5 89:22 90:10
never (16)		November (1)	310:12 378:12	officials (1)
15:17 39:18 132:25	nods (1)	80:22	observational (2)	131:5
141:2 154:24	13:22	nucleus (1)	144:4 285:4	Offit (11)
189:17 225:8	non-for-profit (2)	119:17	observations (3)	16:16,16,18,19,21
244:22 252:24	54:24 56:6	number (34)	146:10 167:6 331:4	17:8 62:12 67:13
262:12 267:7	<b>Non-Linear (1)</b> 7:16	10:7 18:10 19:15	observe (5)	126:23 127:8
272:11 295:21		37:13 39:18 41:25	131:25 206:18 356:12	128:10 Officia (1)
298:4 356:9 368:25	<b>non-placebo-contro</b> 144:3,14	46:18 50:14,19,20	356:22,25	<b>Offit's (1)</b>
nevertheless (1) 126:8	<b>non-preterm (1)</b>	52:21 82:2,3 83:6	observed (2)	127:10 ab (50)
126:8 new (23)	280:9	122:24 161:18,20 178:9 185:22	150:8 168:17	<b>oh (50)</b> 12:5 18:9 21:11 22:17
1:11 2:8 3:4 8:12,19	non-red (1)	178:9 185:22 197:14 199:7	obtained (4)	
10:14,18 50:10	325:10	225:15 227:21	62:7 102:6 325:14	25:20 33:12 34:10
88:10 91:21 93:15	non-vaccinated (1)	276:24 289:15	327:18 obviously (16)	37:24 38:19 39:3 45:11 59:23 78:15
93:16,19 104:11,14	286:14	297:13 301:12	38:3,9 46:19 101:2	43:11 39:23 78:13 83:5 92:22 104:24
105:15 106:3,7,21	nonfunctioning (1)	303:25 304:2	128:22 144:17	112:16 113:9
114:3 323:20	350:5	344:22 387:7	164:20,21 175:5	112.10 113.9
330:21 360:25	nonhuman (1)	396:18,22 399:4	216:12 284:24	145:14 179:20
newborn (2)	331:22	numbered (1)	298:4 322:6 354:20	212:2 226:21 232:2
99:6,12	noninfectious (1)	192:25	364:21 396:24	235:4 241:20
Newswire (1)	214:21	numbers (4)	occur (9)	258:19 261:18
69:17	nonphysician-appr	105:13 197:25 199:9	12:11 121:24 135:18	269:2 275:5 311:20
07.17	nonphysician-appi	100.10 177.20 177.9	12.11 121.24 133.10	207.2 275.5 511.20
	1	1	1	1

	-			-
313:23 318:21	272:15 273:7,15	362:17	384:19	Overtalking (1)
319:14 325:4	274:9 275:12,24	operating (1)	organism (11)	245:12
337:17 339:17	276:9,21 279:7	145:3	98:14 100:11,19	
				overwhelming (1)
346:3 348:2 351:7	284:11 286:5 287:3	operative (1)	101:12,22 102:23	130:2
353:2,10,14 360:13	288:10 289:2,9,11	336:20	118:18 142:2,9	ownership (3)
361:24 363:19	291:13 292:24	<b>OPERATOR</b> (19)	378:10,13	40:6 41:2 42:5
368:9 371:7 384:8	293:6,11,17,22	10:6 11:5 88:12 94:14	organisms (2)	owns (1)
okay (239)	295:2,17 296:18	94:21,25 130:17	138:23 142:11	41:15
13:20 14:7,15 16:6	298:6,9,10 299:15	148:17,20 222:18	organization (14)	
25:11 26:22 34:4	299:19 300:10	222:21,25 305:19	15:8 24:9,11 40:21	P
36:19 38:25 40:17	301:18 302:14,17	308:11,15 388:4	47:3,14 49:6,10	p (1)
41:3,8,15,19 48:13	304:12 305:8,21,25	397:4 400:5 401:3	54:15 109:19	240:19
48:19 53:8 60:14	306:11 308:10	<b>Ophthalmology</b> (1)	112:17 114:24	P-H-E-N-O-X-Y-E
62:21 65:22 66:25	309:6,14,21 311:21	305:13	116:23 144:7	334:6
78:20 79:7 85:9	313:16 314:7,17	opining (1)	organization's (1)	<b>p.m</b> (1)
86:15 88:14 90:24	317:10 319:12	65:18	50:20	401:18
97:16 102:11	320:17 321:14,21	opinion (7)	organizations (8)	P3206 (1)
106:10,24 109:3	321:25 322:11	66:2 68:5 106:2	46:11 47:6 56:15,21	178:25
110:7,22 111:10	323:22 327:11	194:12 236:5	73:15,24 74:12	package (4)
112:15 113:20	328:6 331:6 336:7	296:23 328:16	123:21	153:12 172:7 204:24
116:18 118:12	336:16 338:2	opinions (4)	organized (5)	207:2
121:9 123:8 132:19	339:10 340:13,25	193:12,12 231:13,14	41:9 111:15,21 116:7	page (65)
137:25 138:16	343:12 345:20	opportunity (4)	180:5	4:3,7 5:3 6:3 7:3 8:3
150:15 152:21	346:24 348:18	95:12 298:22 299:14	organs (1)	9:3 48:22,25 49:23
155:9,23 156:4,21	352:9 354:2,5	300:4	343:15	52:20 72:10 80:6
157:9 158:5 162:7	355:24 356:5	oppose (2)	origin (2)	
162:19 163:16	359:13 360:11		8:17 365:20	162:25 167:24
168:6,15,19 169:5	364:17 368:7 369:9	17:3 47:4		168:15 170:14
172:3,5 174:13	373:3 378:3 380:6	opposed (6)	original (3)	173:7 176:18,25
-		47:3 101:5 117:2	162:15 197:5 335:20	178:15,19,24
177:12,15,20	382:13 383:2	158:19 378:24	originally (1)	180:23 184:24
181:21 182:6,11	385:18 388:24	379:3	344:24	186:8,21 188:10,12
183:9,20 184:17	389:3,4,19 390:13	opposing (4)	originated (1)	195:4,21 197:13,16
185:3,15 186:5,8,21	395:18,23 396:16	15:3 16:11 184:13	367:16	197:17,21,25,25
187:13 188:9	398:15 400:6,23	400:7	originates (1)	198:4,10 199:12
189:11 190:6,9	old (3)	opposite (4)	138:18	201:13 202:4,11,14
192:19 193:5 194:5	26:15 28:7 87:11	17:12 133:3 143:8	orphans (1)	203:16 217:23
194:9 195:10	older (3)	144:13	346:24	221:4 228:4,20
196:12 198:4	167:23 343:7 362:25	oppositional (1)	outbreak (2)	229:14 230:8
201:24 210:4	on-the-ground (1)	117:10	267:13 380:24	231:24 234:15
211:10 217:22	50:12	optic (1)	outbreaks (4)	242:7 265:7,10
218:13 221:17	once (10)	162:3	269:22 270:4,7	275:20 299:10
222:6,11 225:21	21:13,15,22 92:11	option (1)	384:14	317:13 335:8 343:4
226:23 227:8,24	129:14 144:6 167:5	380:13	outcome (1)	373:6 392:6,16
228:25 229:9,19	336:16 350:24	options (2)	260:3	395:9
233:15 236:16	386:5	45:21 46:4	outcomes (7)	Page/Line (1)
237:4 238:5,22	one-day-old (1)	<b>OPV</b> (4)	224:4 256:10 258:23	9:9
239:6,21 240:8,13	164:7	365:20,23 367:3	263:15 275:16	pages (4)
242:7 244:4 245:7	ones (10)	381:11	398:21,23	81:20 173:13,14
246:5 251:5,11,14	56:17 57:2 61:15	oral (8)	outreach (1)	177:9
254:7 255:5,5,8,21	62:21 72:18 147:11	6:15 165:14 354:7	50:10	paid (7)
256:2,8 257:12,24	176:24 264:5	371:2 372:4 373:19	outside (3)	38:3 75:19 76:14
258:20 261:17,24	271:21 292:9	380:21 381:4	21:23 56:7 136:6	124:15 230:23
263:8 264:18 265:2	online (1)	order (9)		231:2 392:5
265:16 268:9 269:8	388:25		ovaries (1)	
269:21 270:11,18	open (4)	46:17 94:4 155:17	329:21	pain (4)
271:15,18 272:8,11	116:5,11 131:24	157:2 337:3 352:6	overall (1)	181:4 208:23 209:6
2,1.13,10 2/2.0,11	110.5,11 151.24	356:16 373:15	105:3	363:14
	1	1	1	I

				Faye 20
• 6 1 (1)	147 (0.10	106 04 100 14	• • •	204 4 205 10 206 0
painful (1)	14:7 69:19	126:24 128:14	peer-reviewed (4)	394:4 395:19 396:8
194:19	participants (5)	patents (6)	17:14,17 66:22 174:6	396:17 397:20,21
pains (3)	179:4 186:10 201:2	55:23 56:3 58:9,13	penalty (1)	398:7
210:11 220:25 363:15	201:21 394:9	62:9,19	13:13	percentage (11)
pairs (4)	participate (5)	patient (3)	pending (1)	70:20 121:17 122:25
228:14 328:12,21	82:16 132:20 225:22	147:23 247:20 264:19	298:7	124:18 196:22
329:12	226:20,21	patient's (1)	Pennsylvania (12)	198:22 258:4 377:3
palsy (2)	participated (1)	139:22	1:11 2:8,11 10:14	377:8 386:7 390:21
152:15 162:3	111:14	patients (11)	75:17 76:11 82:10	Perfect (2)
paper (9)	participating (1)	163:18 191:20,21	232:23 321:9	222:20 400:21
105:13 143:18 293:14	130:9	203:22 206:19	373:11 402:4,11	perform (2)
310:9 346:4,19,21	Particles (3)	277:24 290:5 301:4	people (68)	348:21 349:24
367:24 369:23	7:11,17 298:18	380:12 392:21	85:11 98:3 101:5	performed (2)
papers (11)	particular (21)	399:9	109:17,22 110:14	178:10 349:22
85:12 108:10,11,15	96:15 103:4 113:22	<b>Paul</b> (11)	117:11,17 120:18	period (20)
216:8 365:24	113:23,25 144:9	16:15,16 62:12 67:13	121:5 129:10 130:7	134:24 135:15 149:7
366:22 368:5,8	148:9 183:5 190:13	68:2 69:20 70:12	130:12,15 131:21	158:7,16 167:2
369:17 370:2	204:21 205:8	126:23 127:8,10	131:25 132:5 153:3	169:18,22 174:3
papillomavirus (2)	221:20 262:4	128:10	166:4,24 167:12	177:21 181:22
31:17 224:18	266:14 289:21	pause (1)	168:4 181:13 191:8	182:14 185:12
paragraph (9)	290:25 292:11	52:25	191:24 203:10,11	189:9 195:14 206:9
178:24 221:11 306:11	293:2 300:11	paves (2)	204:2 207:7 212:22	206:16,19,25 254:2
306:12,24 307:6	306:17 322:22	129:7.9	214:8 223:22	periodically (2)
369:25 392:9	particularly (7)	pay (4)	231:13 232:19	373:8 374:2
395:10	106:14 116:20 190:15	43:12 61:17 74:12	239:3,15 250:24	periods (6)
paralysis (1)	209:25 221:2 291:6	124:16	251:5 271:25	45:2 178:12 204:18
162:3	361:19	payment (5)	286:17 287:8	204:22 283:8,9
Pardon (1)	partner (1)	38:12 40:7 45:3 58:6	291:10,19 292:2	peripheral (3)
130:19	395:15	125:5	300:22 331:10	152:14 209:4,5
parent (2)	parts (5)	payments (27)	346:15 350:18	perjury (1)
250:19 255:22	108:19 142:9 209:9	37:20,23 38:16 41:12	354:22 357:7 358:4	13:13
parenthetically (1)	292:15 320:4	41:20,22 42:9,12,14	358:9,17,18 359:16	permanent (3)
194:19	party (1)	42:17,22,25 43:13	363:10,13 377:15	210:12 389:24 390:11
parenting (1)	307:22	43:16,19,25 44:5,8	378:24 382:15	Permanente (1)
50:10	pass (1)	44:15,17 45:5 58:25	383:12,20,23 386:9	221:21
parents (5)	101:22	59:15,19 60:25	386:21 387:10	permitted (2)
14:24 230:6 271:5,6	passage (4)	68:24 74:5	393:8,22	132:22 135:3
278:2	315:10 323:18,20,21	payments/remuner	people's (1)	persistence (4)
			300:24	96:20 383:6,22 386:4
<b>paresis (1)</b> 162:4	<b>passaged (1)</b> 318:14	43:5 pays (1)	perceive (1)	90.20 383.0,22 380.4 persistent (1)
paresthesia (1)	passages (2)	124:6	65:25	189:4
161:25	315:11 322:25	PCV13 (4)	percent (51)	person (9)
Paris (3)	passed (1)	28:22 30:18 34:4	40:6 41:2,17,18 63:16	38:22 100:7,20 119:7
	L	361:3	63:17 73:6 97:23	· · · · · · · · · · · · · · · · · · ·
192:23,24,24 Bark (1)	76:22	<b>pediatric (11)</b>	98:2 103:20 104:18	119:10 191:15 379:7.11 381:22
Park (1)	<b>passes (1)</b> 54:2		98:2 105:20 104:18 104:24 120:21	/
3:4		83:10 123:9,15,18,18	104:24 120:21 122:2,3,7,9,21	personal (5)
part (21)	passing (2)	124:19 126:16 127:4 183:20 313:2	122:2,5,7,9,21 124:23 179:4	19:4 76:24 340:15
50:5 58:4,12,19	100:3,19		124:25 179:4 181:22 182:2,6	342:4 370:2
117:10 123:11,12	passive (1)	320:6	185:10,11 195:11	<b>personally (15)</b> 40:13 65:13 330:17
123:13 188:17	99:19 Bestevn (5)	pediatrician (4)	196:6,12,13 198:17	
213:19 225:24	Pasteur (5)	16:19 58:22 84:25		343:17 346:10
325:6,8,10 327:13	5:7 33:12 38:2 228:5	250:18	199:6,20 200:6	354:12,24,25 355:6
340:14 342:3	233:5	pediatricians (1)	201:2,8 376:20 377:12,20 383:20	355:8 356:3,6,10
345:10 352:12	patent (10)	123:22 Redistries (2)	384:10,19,20	363:5,23
357:12 379:17	61:6,7 62:7,13,16,18	<b>Pediatrics (2)</b>	392:10 393:14	<b>persons (1)</b> 350:6
partial (2)	62:22 107:10	73:11 116:21	572.10 575.14	550.0
	1	1	1	1

232:8 153   pertaining (1) 19   288:22 30   pertussis (65) pher   5:19 28:4 91:21 93:16 165   93:20,24 94:3,7 24   96:5,23 97:13 98:4 Phil   98:11,15,17,18,22 16:2   98:25 99:5,7,10,11 78   99:16,17,23 100:5,6 36   100:7,12 101:2,7,11 37   102:9,18,20,23 40   144:20 146:3 phot   217:17 240:24 400   242:14 269:15,16 phot   269:20 311:18 135   362:14,16,25 phys   375:18 376:7,15,17 247	one (1) ):17 otographed (1) 5:23 vsician (4)	pituitary (1) 344:2 place (4) 25:15 205:2 341:7 355:3 placebo (41) 160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25 238:13 398:19	Plaintiff-13 (1) 170:6 Plaintiff-14 (1) 177:24 Plaintiff-15 (1) 184:2 Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-39 (1) 309:17 Plaintiff-4 (1) 64:5 Plaintiff-40 (1) 316:24 Plaintiff-41 (1) 340:20 Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19 Plaintiff-46 (1)
pertaining (1)19288:2230pertussis (65)pher5:19 28:4 91:21 93:1616593:20,24 94:3,72496:5,23 97:13 98:4Phil98:11,15,17,18,2216:298:25 99:5,7,10,117899:16,17,23 100:5,636100:7,12 101:2,7,1137102:9,18,20,2340144:20 146:3phil144:20 146:3phor217:17 240:24400242:14 269:15,16phor269:20 311:18135362:14,16,25phys375:18 376:7,15,17247	96:20 244:21 00:15 <b>momenon (5)</b> 5:8,9 210:12 244:7 46:22 <b>ladelphia (12)</b> 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 <b>losophy (1)</b> 0:4 <b>one (1)</b> 0:17 <b>tographed (1)</b> 5:23 <b>rsician (4)</b>	place (4) 25:15 205:2 341:7 355:3 placebo (41) 160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-14 (1) 177:24 Plaintiff-15 (1) 184:2 Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-4 (1) 64:5 Plaintiff-40 (1) 316:24 Plaintiff-41 (1) 340:20 Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
288:22   30     pertussis (65)   phen     5:19 28:4 91:21 93:16   165     93:20,24 94:3,7   24     96:5,23 97:13 98:4   Phil     98:11,15,17,18,22   16:2     98:25 99:5,7,10,11   78     99:16,17,23 100:5,6   36     100:7,12 101:2,7,11   37     102:9,18,20,23   40     144:20 146:3   phil     217:17 240:24   400     242:14 269:15,16   phot     269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	00:15 momenon (5) 5:8,9 210:12 244:7 46:22 ladelphia (12) 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 tographed (1) 5:23 rsician (4)	25:15 205:2 341:7 355:3 <b>placebo (41)</b> 160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	177:24 Plaintiff-15 (1) 184:2 Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	64:5 Plaintiff-40 (1) 316:24 Plaintiff-41 (1) 340:20 Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
pertussis (65)phen5:19 28:4 91:21 93:1616593:20,24 94:3,72496:5,23 97:13 98:4Phil98:11,15,17,18,2216:298:25 99:5,7,10,117899:16,17,23 100:5,636100:7,12 101:2,7,1137102:9,18,20,2340103:3 142:24 143:6phil144:20 146:3phon217:17 240:24400242:14 269:15,16phon269:20 311:18135362:14,16,25phys375:18 376:7,15,17247	nomenon (5) 5:8,9 210:12 244:7 46:22 ladelphia (12) 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 tographed (1) 5:23 rsician (4)	355:3 <b>placebo (41)</b> 160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-15 (1) 184:2 Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-40 (1) 316:24 Plaintiff-41 (1) 340:20 Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
5:19 28:4 91:21 93:16 165   93:20,24 94:3,7 24   96:5,23 97:13 98:4 Phil   98:11,15,17,18,22 16:2   98:25 99:5,7,10,11 78   99:16,17,23 100:5,6 36   100:7,12 101:2,7,11 37   102:9,18,20,23 40   143:11 144:8,12,20 350   144:20 146:3 phot   217:17 240:24 400   242:14 269:15,16 phot   269:20 311:18 135   362:14,16,25 phys   375:18 376:7,15,17 247	5:8,9 210:12 244:7 46:22 ladelphia (12) 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 tographed (1) 5:23 rsician (4)	placebo (41) 160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	184:2 Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	316:24 <b>Plaintiff-41 (1)</b> 340:20 <b>Plaintiff-42 (1)</b> 348:5 <b>Plaintiff-43 (1)</b> 349:11 <b>Plaintiff-44 (1)</b> 366:12 <b>Plaintiff-45 (1)</b> 366:19
93:20,24   94:3,7   24     96:5,23   97:13   98:4   Phil     98:11,15,17,18,22   16:2   98:25   99:5,7,10,11   78     99:16,17,23   100:5,6   36   100:7,12   101:2,7,11   37     102:9,18,20,23   40   103:3   142:24   143:6   phil     143:11   144:8,12,20   350   144:20   146:3   phot     217:17   240:24   400   242:14   269:15,16   phot     269:20   311:18   135   362:14,16,25   phys     375:18   376:7,15,17   247	46:22 <b>ladelphia (12)</b> 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 <b>losophy (1)</b> 0:4 one (1) 0:17 otographed (1) 5:23 rsician (4)	160:5 174:17,21,23 175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-16 (1) 189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-41 (1) 340:20 Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
96:5,2397:1398:4Phil98:11,15,17,18,2216:298:2599:5,7,10,117899:16,17,23100:5,636100:7,12101:2,7,1137102:9,18,20,2340103:3142:24143:6143:11144:8,12,20350144:20146:3phot217:17240:24400242:14269:15,16phot269:20311:18135362:14,16,25phys375:18376:7,15,17247	ladelphia (12) 20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 otographed (1) 5:23 rsician (4)	175:9,10 179:9,23 183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	189:20 Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	340:20 <b>Plaintiff-42 (1)</b> 348:5 <b>Plaintiff-43 (1)</b> 349:11 <b>Plaintiff-44 (1)</b> 366:12 <b>Plaintiff-45 (1)</b> 366:19
98:11,15,17,18,22   16:2     98:25 99:5,7,10,11   78     99:16,17,23 100:5,6   36     100:7,12 101:2,7,11   37     102:9,18,20,23   40     103:3 142:24 143:6   phil     143:11 144:8,12,20   350     144:20 146:3   phoi     217:17 240:24   400     242:14 269:15,16   phoi     269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	20 57:24 63:8 8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 me (1) 0:17 otographed (1) 5:23 rsician (4)	183:18 185:16,19 185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-17 (1) 197:6 Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-42 (1) 348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
98:25   99:5,7,10,11   78     99:16,17,23   100:5,6   36     100:7,12   101:2,7,11   37     102:9,18,20,23   40     103:3   142:24   143:6     143:11   144:8,12,20   350     144:20   146:3   phot     217:17   240:24   400     242:14   269:15,16   phot     269:20   311:18   135     362:14,16,25   phys   375:18   376:7,15,17	8:21 83:9 367:25 68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 me (1) 0:17 btographed (1) 5:23 rsician (4)	185:24,25 186:11 186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	197:6 <b>Plaintiff-18 (1)</b> 202:22 <b>Plaintiff-19 (1)</b> 217:12 <b>Plaintiff-2 (1)</b> 49:17 <b>Plaintiff-20 (1)</b>	348:5 Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
99:16,17,23 100:5,6   36     100:7,12 101:2,7,11   37     102:9,18,20,23   40     103:3 142:24 143:6   phil     143:11 144:8,12,20   350     144:20 146:3   phot     217:17 240:24   400     242:14 269:15,16   phot     269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	68:13,20 370:6 73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 otographed (1) 5:23 rsician (4)	186:12,17,22 194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-18 (1) 202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-43 (1) 349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
100:7,12 101:2,7,11   37     102:9,18,20,23   40     103:3 142:24 143:6   phil     143:11 144:8,12,20   350     144:20 146:3   phot     217:17 240:24   400     242:14 269:15,16   phot     269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	73:11 400:19 02:6 losophy (1) 0:4 one (1) 0:17 tographed (1) 5:23 rsician (4)	194:14 195:3,8 196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	202:22 Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	349:11 Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
102:9,18,20,23   40     103:3 142:24 143:6   phil     143:11 144:8,12,20   350     144:20 146:3   phot     217:17 240:24   400     242:14 269:15,16   phot     269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	02:6 losophy (1) ):4 one (1) ):17 tographed (1) 5:23 rsician (4)	196:23 197:11,15 197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-19 (1) 217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	Plaintiff-44 (1) 366:12 Plaintiff-45 (1) 366:19
103:3142:24143:6phil143:11144:8,12,20350144:20146:3phot217:17240:24400242:14269:15,16phot269:20311:18135362:14,16,25phys375:18376:7,15,17247	losophy (1) ):4 one (1) ):17 otographed (1) 5:23 rsician (4)	197:22 198:6,7,14 198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	217:12 Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	366:12 Plaintiff-45 (1) 366:19
143:11 144:8,12,20 350   144:20 146:3 phot   217:17 240:24 400   242:14 269:15,16 phot   269:20 311:18 135   362:14,16,25 phys   375:18 376:7,15,17 247	):4 me (1) ):17 stographed (1) 5:23 rsician (4)	198:18 199:5,22 200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	Plaintiff-2 (1) 49:17 Plaintiff-20 (1)	<b>Plaintiff-45 (1)</b> 366:19
144:20   146:3   phot     217:17   240:24   400     242:14   269:15,16   phot     269:20   311:18   135     362:14,16,25   phys   375:18     375:18   376:7,15,17   247	one (1) ):17 otographed (1) 5:23 vsician (4)	200:5,14 201:7,19 202:5 204:11,12 206:13 213:25	49:17 <b>Plaintiff-20 (1)</b>	366:19
217:17 240:24 400   242:14 269:15,16 phot   269:20 311:18 135   362:14,16,25 phys   375:18 376:7,15,17 247	):17 btographed (1) 5:23 ssician (4)	202:5 204:11,12 206:13 213:25	Plaintiff-20 (1)	
242:14 269:15,16phot269:20 311:18135362:14,16,25phys375:18 376:7,15,17247	tographed (1) 5:23 vsician (4)	206:13 213:25		Plaintiff-46 (1)
269:20 311:18   135     362:14,16,25   phys     375:18 376:7,15,17   247	5:23 vsician (4)			
362:14,16,25phys375:18376:7,15,17247	vsician (4)	/ 18'   1 198'   9	227:11	388:8
375:18 376:7,15,17 247			Plaintiff-21 (1)	<b>Plaintiff-47</b> (1)
	7.10 040.00 01	<b>placebo-controlled</b> 155:21 157:4 162:9	231:17	391:3
	7:18 249:20,21	162:22 176:9 177:4	Plaintiff-22 (1)	<b>Plaintiff-48</b> (1)
	50:15	182:22 176:9 177:4	241:15	397:9
	r <b>sicians (10)</b> 106:18 123:21	212:25 223:8	Plaintiff-23 (1)	Plaintiff-5 (1)
-	30:6 249:4 265:4	239:13,14	264:10	69:14
	67:25 368:13	placed (1)	<b>Plaintiff-24 (1)</b> 273:12	<b>Plaintiff-6 (1)</b> 72:4
	69:5 390:22	13:11	Plaintiff-25 (1)	Plaintiff-7 (1)
144:16 145:24 pick		places (3)	278:11	77:21
147:2,12 256:20 205		351:13,23 352:6	Plaintiff-26 (1)	Plaintiff-8 (1)
	tures (3)	plaintiff (8)	282:3	79:10
· · · ·	9:11,12,24	1:6 3:3 4:8 10:24 11:2	Plaintiff-27 (1)	<b>Plaintiff-9</b> (1)
	ce (4)	25:25 26:4 345:7	288:13	131:11
1 / L	2:4 171:17 222:10	Plaintiff's (39)	Plaintiff-28 (1)	plan (1)
	22:11	47:23 48:8 49:21 52:5	289:3	271:6
	ces (9)	64:9 69:13 72:9	Plaintiff-29 (1)	plane (2)
	):4 249:6 330:8,19	77:25 79:14 131:15	296:2	21:18 22:5
	43:20,21,25 344:2	149:14 158:2 170:5	Plaintiff-3 (1)	planet (1)
	59:7	178:4 183:25	52:6	374:16
45:25 54:6 72:19 <b>pig</b> (	(7)	197:10 203:2	Plaintiff-30 (1)	planned (3)
	3:11,12,13,14,15	227:15 264:14	297:5	22:22 24:19,22
	19:23 332:19	273:16 278:15	Plaintiff-31 (1)	platelets (2)
403:5 <b>pigs</b>		282:7 288:17 289:7	299:5	208:13,16
L	3:3 319:18 339:24	296:6 297:9 299:4	Plaintiff-32 (1)	playing (1)
	grim (1)	299:21 301:10	299:6	16:14
72:13 75:10 259:13 391		305:8 308:21	Plaintiff-33 (1)	please (39)
	ot (4)	309:21 317:4	299:16	10:21 11:23 13:24
	273:17 274:15	340:24 366:16,17	Plaintiff-34 (1)	14:3 32:7 37:5
	81:2	389:4 391:7 397:8	301:6	69:18 70:7 75:21
	k (2)	Plaintiff-1 (1)	Plaintiff-35 (1)	78:5 108:22 158:6
	5:23 387:2	47:24	302:4	160:20 162:25
-	ned (1)	Plaintiff-10 (1)	Plaintiff-36 (1)	167:20 173:7
108:16 124:20 130		149:10	305:4	174:22 184:24
	to (1)	Plaintiff-11 (1)	Plaintiff-37 (1)	190:17 197:22
135:19 148:13 81:4		157:22 Disintiff 12 (1)	308:22	198:9,19 201:13
181:15 233:24Pisa262:20 263:8 281:4193		<b>Plaintiff-12 (1)</b> 167:17	<b>Plaintiff-38</b> (1)	240:17 242:15,16
202.20 203.6 261.4 193	3:2,4	10/.1/	308:23	242:21 243:25

257:20 265:2	148:1,22,25 149:1	279.1 14 270.1 16	41:10 47:10 61:21	63:14 65:6 68:21 69:7
		278:1,14 279:1,16		
275:20 279:7 280:4	149:13,20 150:1	280:1 281:1 282:1	75:16 76:10 99:11	70:10,14 75:24
287:11 296:6	151:1,9 152:1 153:1	283:1,12 284:1,8	117:6 122:25 134:3	95:15 137:16
297:10 366:25	154:1 155:1 156:1,7	285:1 286:1 287:1	143:10 144:5	260:21 341:23
369:9 400:25	157:1 158:1 159:1	288:1,16 289:1,9	155:24 171:9	390:24
pleasure (1)	160:1 161:1 162:1	290:1,11 291:1	174:20 189:14	position (3)
106:19	163:1 164:1 165:1	292:1 293:1,12,15	199:14 200:22	23:23 82:9 89:22
plied (1)	166:1 167:1,22	294:1 295:1 296:1	204:14,15 207:23	positions (1)
107:14	168:1,2,16 169:1	297:1 298:1,6 299:1	212:20 220:19	83:19
Plotkin (535)	170:1,4 171:1,17	300:1,19 301:1,19	233:5 243:9,14,15	positive (8)
1:10 2:7 4:4,20 10:1,8	172:1 173:1,10,12	302:1,19 303:1	244:5 249:3 250:7	146:9 158:17 238:11
11:1,8,16,25 12:1,2	174:1 175:1 176:1	304:1 305:1 306:1	256:20 280:16	243:15 256:22
13:1 14:1 15:1 16:1	177:1 178:1,4,16	307:1 308:1,12,17	283:19 284:22	284:3 285:13,14
16:6 17:1 18:1,13	179:1 180:1 181:1	308:20 309:1,10,20	296:14 304:16	positively (1)
19:1,23 20:1 21:1	181:21 182:1 183:1	310:1,19 311:1	309:8 324:10	154:21
22:1 23:1 24:1 25:1	184:1 185:1 186:1	312:1 313:1 314:1	358:21 362:18,21	possession (2)
26:1 27:1 28:1 29:1	187:1 188:1 189:1	315:1 316:1 317:1,3	369:15 381:24	59:13 368:14
30:1 31:1 32:1 33:1	190:1 191:1 192:1	318:1,8,25,25 319:1	pointed (2)	possibilities (1)
33:23 34:1 35:1,16	193:1 194:1 195:1	319:10 320:1,15	17:10 287:18	268:21
36:1 37:1 38:1 39:1	196:1 197:1,9,13,17	321:1,19 322:1	pointing (3)	possibility (8)
40:1,12 41:1 42:1	198:1 199:1 200:1	323:1 324:1 325:1	221:18 267:3 270:20	115:3 116:3,6,24
43:1 44:1 45:1 46:1	201:1,13 202:1,25	326:1 327:1 328:1	Poland (1)	146:17 281:12
47:1 48:1,15,25	203:1,16 204:1,16	329:1 330:1 331:1	290:15	327:17 382:3
49:1,12 50:1,14	205:1,3 206:1 207:1	332:1 333:1 334:1	Policy (1)	possible (27)
51:1 52:1,4 53:1	208:1,12 209:1	335:1,5 336:1 337:1	4:21	16:23 106:15 117:11
54:1 55:1 56:1 57:1	210:1 211:1 212:1	338:1 339:1 340:1	polio (47)	156:17 181:24
58:1 59:1 60:1 61:1	213:1 214:1 215:1	341:1,2 342:1 343:1	6:15 8:16 28:5 30:21	209:18 232:14
62:1 63:1 64:1 65:1	216:1 217:1,2,15,16	344:1 345:1 346:1	35:25 165:11	245:25 246:4
66:1 67:1 68:1 69:1	217:23 218:1 219:1	347:1 348:1 349:1	167:16 268:24,25	265:21 266:8,13
70:1,8 71:1 72:1	219:15 220:1 221:1	350:1 351:1 352:1	269:7 314:6,10,12	281:9,11,12 294:12
73:1 74:1 75:1,2,7	221:4 222:1,22	353:1 354:1 355:1	315:12,13,18	294:18 300:9 303:4
76:1 77:1,24 78:1	223:1,3,6 224:1,11	356:1 357:1 358:1	317:20 331:18,21	
	225:1,3,0 224:1,11	359:1 360:1,12		330:23,24 340:9
78:13,16 79:1,13,24		-	332:3,4 333:25	349:2 390:13,15
80:1 81:1,19 82:1	227:1,14 228:1,5,19	361:1 362:1 363:1	354:7,18,19,20,21	393:5,9
83:1,12 84:1,16	229:1 230:1,13	364:1 365:1 366:1	354:22 355:23	possibly (3)
85:1 86:1 87:1 88:1	231:1,15 232:1	366:15 367:1,12,18	357:8 371:2,14	337:20 340:7 353:8
89:1 90:1 91:1 92:1	233:1 234:1,17,19	367:21 368:1 369:1	372:5 373:20 375:3	post (4)
93:1 94:1,22 95:1,3	235:1 236:1 237:1	369:16 370:1 371:1	380:15,19,21,24	158:10 173:25 174:16
95:11 96:1 97:1	238:1 239:1 240:1	372:1 373:1 374:1	381:4,5,9,20,23	298:3
98:1 99:1 100:1	241:1,14,20 242:1	375:1 376:1 377:1	382:16 383:13,21	post-marketing (1)
101:1 102:1 103:1	242:15,16,18 243:1	378:1 379:1 380:1	Poliomyelitis (1)	161:15
104:1 105:1 106:1	243:21 244:1,8,24	381:1 382:1 383:1	372:24	posted (1)
107:1 108:1 109:1	245:1 246:1,11	384:1 385:1 386:1	Poliovirus (1)	134:9
110:1 111:1 112:1	247:1 248:1,11,20	387:1 388:1 389:1	5:6	Postscript (1)
113:1 114:1 115:1	249:1 250:1,7 251:1	390:1 391:1,6,12,14	polyarteritis (1)	8:18
116:1 117:1 118:1	252:1 253:1,10	392:1 393:1 394:1	152:4	postulated (1)
119:1 120:1 121:1	254:1 255:1,9 256:1	395:1,9 396:1 397:1	polysorbate (1)	193:19
122:1 123:1 124:1	256:8 257:1 258:1	398:1,24 399:1	334:25	potential (6)
125:1 126:1 127:1	259:1 260:1,11,18	400:1,13,16 401:1,5	population (4)	225:5 259:5 265:21
128:1 129:1 130:1	261:1,8,14 262:1	Plotkin's (3)	156:16 239:16 266:25	
131:1 132:1 133:1	263:1 264:1,13,15	53:9 79:19 208:10		271:2 300:13
			377:9	349:25
134:1,11 135:1	265:1,24 266:1	Plough (1)	populations (2)	potentially (5)
136:1 137:1 138:1	267:1 268:1 269:1	2:7	221:23 286:3	185:5 225:5 328:2
139:1 140:1 141:1	270:1 271:1 272:1	plus (2)	porcine (1)	349:23 380:11
142:1 143:1 144:1	273:1 274:1,16	179:3,3	333:17	power (1)
145:1 146:1 147:1	275:1 276:1 277:1	point (42)	portion (12)	200:15
		l	l	

275:22 276:2,7 312:15 328:24 <b>PPSV23 (1)</b> 361:5	pregnancy (3) 12:13 99:18 100:3 pregnant (1) 240:20 prelicensure (22) 147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	214:9 <b>preterm (6)</b> 6:11 278:22 279:14 279:23 280:6,10 <b>pretty (15)</b> 36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	<b>probably (49)</b> 21:25 22:19 35:5 38:14,24 39:6 46:18 59:16 71:3 75:11 76:2 80:4 81:15 94:4 102:25 104:8	<b>product (27)</b> 34:5 36:2,5,10,15,22 37:4 49:2 78:25 84:24 149:15 164:21 170:18,20 205:10 263:15
275:22 276:2,7   312:15 328:24 <b>PPSV23</b> (1) 361:5   361:5 <b>PR (1)</b> 69:17 <b>practical (1)</b> 224:14 <b>practice (3)</b> 144:10 347:7	12:13 99:18 100:3 pregnant (1) 240:20 prelicensure (22) 147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	6:11 278:22 279:14 279:23 280:6,10 <b>pretty (15)</b> 36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	21:25 22:19 35:5 38:14,24 39:6 46:18 59:16 71:3 75:11 76:2 80:4 81:15 94:4 102:25 104:8	34:5 36:2,5,10,15,22 37:4 49:2 78:25 84:24 149:15 164:21 170:18,20
312:15 328:24 J <b>PPSV23 (1)</b> 361:5   361:5 J <b>PR (1)</b> 69:17 <b>practical (1)</b> 224:14 <b>practice (3)</b> 144:10 347:7 349:3	240:20 prelicensure (22) 147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	6:11 278:22 279:14 279:23 280:6,10 <b>pretty (15)</b> 36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	38:14,24 39:6 46:18 59:16 71:3 75:11 76:2 80:4 81:15 94:4 102:25 104:8	37:4 49:2 78:25 84:24 149:15 164:21 170:18,20
<b>PPSV23</b> (1) 361:5 <b>PR</b> (1) 69:17 <b>practical</b> (1) 224:14 <b>practice</b> (3) 144:10 347:7 349:3	240:20 prelicensure (22) 147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	279:23 280:6,10 pretty (15) 36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	59:16 71:3 75:11 76:2 80:4 81:15 94:4 102:25 104:8	164:21 170:18,20
361:5 J   PR (1) 69:17   practical (1) 224:14   practice (3) 144:10 347:7 349:3	prelicensure (22) 147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	pretty (15) 36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	76:2 80:4 81:15 94:4 102:25 104:8	
PR (1) 69:17 practical (1) 224:14 practice (3) 144:10 347:7 349:3	147:18 149:7,23 157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	36:8 37:11 82:23 96:11 134:21 226:11 267:10,11	94:4 102:25 104:8	
69:17 practical (1) 224:14 practice (3) 144:10 347:7 349:3	157:20 158:8 162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	96:11 134:21 226:11 267:10,11		205:10 263:15
practical (1) 224:14 practice (3) 144:10 347:7 349:3	162:12 163:23 164:24 166:8 167:2 168:8 169:19,23	226:11 267:10,11	105:4 111:7 145:23	311:24 312:7
224:14 practice (3) 144:10 347:7 349:3	164:24 166:8 167:2 168:8 169:19,23		194:2 195:5 216:24	315:13,14 318:19
<b>practice (3)</b> 144:10 347:7 349:3	168:8 169:19,23	270:8 307:20	225:20 233:12	319:15 326:10,14
144:10 347:7 349:3		314:15 315:18	234:8 257:6 267:10	327:23 335:7
	171:19,25 173:21	321:23 327:21	268:17,22 269:3	339:16
DIACHCED (1)	173:25 174:16,22	398:12	270:8 274:19	production (3)
99:18	174:25 177:22	prevent (5)	313:13 327:24	9:8 167:11 294:6
Practices (1)	200:25	100:6 103:5 141:8	328:22 336:11	products (8)
	Preliminary (1)	386:6 387:15	337:13 344:16	33:16 66:12 107:8
	392:19	prevented (1)	346:4 353:5 357:3	135:12 263:18
1 8 7	premature (3)	376:16	359:3 364:19 368:9	316:13 318:17
	246:13 248:23 251:19	preventing (2)	376:3 377:11	320:3
L	prematurely (1)	99:7 129:11	383:15 384:19	Professional (5)
	310:8	prevention (1)	390:25	2:9 6:6 265:4 402:10
1	preparatory (1)	358:25	problem (9)	402:22
	342:24	prevents (1)	93:21 221:3 266:14	professor (3)
<b>F</b> = = = = = = = = = ( = )	prepare (4)	180:15	267:19 296:8	82:9 83:16 106:6
	18:4 19:14 20:6	previous (1)	302:17 327:25	professors (6)
precaution (1)	261:17	341:15	364:13 384:13	191:5 193:16,21
	prepared (3)	previously (3)	problematic (2)	273:22 278:18
	39:10 166:19 261:14	223:16,16 347:19	326:16 328:3	305:17
	Prescribing (5)	priest (1)	problems (1)	profile (1)
	4:23 5:4,9,11,17	345:21	300:16	223:22
	present (16)	primate (1)	procedure (1)	profits (5)
	3:15 24:16,17 36:25	331:22	159:25	58:13 66:5,7 104:12
212:19	37:12 124:4 189:7	primates (2)	procedures (1)	358:8
precise (2)	294:14 295:11	121:21 332:2	232:9	program (7)
39:16 43:20	311:11 321:17,19	principal (1)	proceed (1)	50:22 115:13 117:15
precisely (4)	332:19 337:20	41:6	202:20	124:9,12,15,22
39:20 65:10 207:11	369:25 385:9	principle (4)	proceedings (2)	programs (1)
	presentation (2)	116:19 267:18 270:10	8:8 402:12	50:21
	114:4 337:3	290:8	proceeds (2)	project (1)
1	presentations (2)	print (1)	65:7 68:21	395:13
	132:13 230:5	197:25	process (8)	promise (2)
1	presented (6)	printed (1)	93:15 123:11,12	369:17,18
	132:13 133:15,17,19	53:5	315:24 325:21,24	promote (2)
274:20,24	133:22,23	printout (3)	326:2 336:10	71:18 107:13
	preserve (1)	48:16 72:9 389:5	processes (2)	promoting (1)
	167:25	prions (1)	307:3 308:4	47:12
	press (5)	333:10	produce (9)	promotion (1)
	4:13,15 64:9,10,25	prior (8)	39:25 119:2 155:14	66:12
•	4.15,15 04.9,10,25 prestigious (1)	170:15 282:19 289:23	160:2 166:19	pronounce (4)
	296:15	311:9,16 341:19,20	206:12 294:2	112:20 228:6,9 334:7
I I I I I I I I I I I I I I I I I I I	presumably (4)	357:4	330:12 378:11	pronounced (1)
	64:22 108:17 257:24	priori (2)	produced (4)	112:22
289:15,23 290:10,20	271:5	262:13 286:7	37:9 57:18 314:13,16	pronunciations (1)
	presume (4)	202:13 280:7 prison (1)	producers (1)	353:17
1 ()	26:11 70:17 105:22		57:20	<b>proof (11)</b>
	26:11 /0:17 105:22 224:2	350:10	57:20 produces (1)	
preferred (1)		pro (1) 265:12	317:7	145:10 152:25 159:5
168:12	presumes (1)	365:12	511.1	159:17 173:3,5

### 211:9 236:18 237:3 281:18 287:10 120:4 131:15 pull (2)rabies (4) 249:3 253:8 150:12 159:5,17 198:18 199:5 289:9 298:3,7 305:9 57:4 58:17 59:8 77:2 160:20 166:22 purchase (2) 328:5 336:5 341:15 proper (2) racial (4) 159:24 243:16 172:14,17,19 173:3 58:22 84:25 341:17 342:7 262:16 266:2 267:10 349:21 350:3 353:3 properly (5) 176:15 208:2 216:3 purchased (1) 350:6 155:20 162:9 259:12 216:6 225:4 227:24 124:20 362:9 368:21 radiculopathy (2) 307:8 398:18 231:10 232:11 369:12.13 372:4 152:15,16 pure (2) 298:21 331:12 255:10,11 374:24 376:23 raised (3) properties (3) 118:17 119:2 129:5 369:3 383:4 194:5,8,9 purely (4) 104:8 105:5 282:25 questionable (1) property (2) provided (7) random (1) 19:20,23 60:25 81:16 263:23 144:25 58:2 68:18 369:17 85:14 167:3 234:4 questioned (1) randomization (3) proportion (2) purpose (9) provides (4) 147:25 173:15 377:18 22:12 24:2 232:11 239:11 281:19 283:7 proposed (1) 54:10 115:6 125:5 264:7 336:22 questioning (3) randomized (27) 268:15 163:4 342:15 355:4 360:2 74:23 400:7,10 145:6 155:20 157:4 162:9,21 176:8 proprietorship (1) providing (1) 391:25 questions (17) 13:16 49:16 135:7 177:4 182:23 223:8 40:20 84:21 purposefully (2) proving (2) 164:17 205:5,5,12 prospective (1) 328:11,20 226:2 238:17 338:24 360:3 purposes (4) 239:23 253:5 257:14 263:22 257:8 psychiatric (3) 85:11 264:17 375:11 271:12 318:7.8 264:3,6 280:18 protect (11) 343:13 346:7,16 335:19 370:18 281:22,24 282:21 66:20 99:11,12 375:12 public (34) 400:3,8,9 100:10,18 140:12 pursuant (2) 282:21 284:4,15 248:17 249:9 2:10 8:23 56:24 11:20 307:9 quick (7) 286:9,11,13,23 252:10 354:22 131:23.24 132:7.9 push (1) 205:14 222:17 239:23 390:8 randomly (4) 381:25 132:10,11 133:5 275:15 318:8 107:4 370:18 400:17 134:23 135:5,13,14 144:18,19 157:4 protected (9) pushed (1) 98:4,10,23,24,24 135:22 136:5,7,9 quicker (1) 182:24 189:16 375:18 383:12,14 230:5 249:4 273:23 214:17 range (4) pushing (1) 278:19 358:10,22 quite (15) 142:2 147:10 226:19 383:24 113:25 protecting (1) 358:23 380:4,8 81:19 96:6 143:8 put (8) 343:18 142:9 387:9 391:8,15 148:2.3 168:10 206:7 144:12 158:16 ranging (1) protection (7) 399:18 402:10,23 328:14 362:12 181:24 210:16 280:8 93:23 96:10,11 97:23 403:25 399:3.6 258:5 303:3 341:14 Rappaport (1) 344:23 380:2 383:6 98:9,21 362:25 publication (3) 193:8 putative (3) protective (4) 78:10 80:5 278:16 158:15 196:20 390:22 385:24 386:12 rare (9) publications (2) puts (1) 93:22 96:7 383:15,18 auote (19) 166:6 171:10 210:16 173:5 174:6 protects (1) 366:9 106:5,12,22,24 107:7 214:11 224:7 107:18 130:2,4 140:10 publicly (6) 238:20 268:19 0 protein (18) 67:18 132:14 135:20 131:4,4 209:3,9 269:11 284:23 120:5,7,8 293:23 368:19 369:2 quantity (2) 230:3 294:20 rarely (2) 399:19 319:13 327:15 312:25 373:18 357:20 358:7 360:6,8 publish (2) 365:25 375:17,21 328:8 336:23,24 question (60) rash (1) quoted (1) 337:2,5,7,18,23 143:18 275:3 13:19,25 39:11 40:9 173:16 published (18) 338:4,9 340:5,6 40:15 41:6 44:3 107:2 rate (16) 80:12,18,21 81:7,9 143:23 183:2 185:10 proteins (3) 46:9,12 56:11 60:13 R 119:2 120:13 337:24 105:25 106:17 73:16 85:4 95:8,11 185:16 187:22 108:15 192:12 **R**(1) protocol (1) 106:9 108:13 194:12,14 195:7 399:2 232:13 264:23 402:2 201:5 205:9 239:17 130:25 135:10 274:17 292:4 R-U-A-N-D-A (1) 141:15 162:2 263:17 282:16 protocols (1) 293:14 296:9 351:2 284:16 285:21 182:15 184:11 148:8 303:18 307:10 **RA (8)** 396:6 prove (6) 195:15 196:17 309:25 238:9,10 245:8 4:18 8:10 78:6,24 rates (4) 234:16 240:11 publishes (1) 203:22 324:11 224:3 225:2 256:17 359:10,13,15 242:19 244:13 274:23 348:10,17 284:5 provide (29) 247:25 248:9,15 publishing (1) rabbits (2) ratio (3) 13:17 14:6 17:20,24 250:9,11 251:17 51:13 84:25 99:19 107:3 296:19,21 275:24 276:5 280:2 257:2 260:7,24

<b></b>				ruge 55
ratios (1)	260.17 20 272.9	343:13 378:25	67:19,21,25 68:7	133:2 163:25 249:23
358:10	260:17,20 272:8 274:19 275:13	381:11 399:4	69:2,4 70:14,23,24	
re-notice (1)	277:25 279:3,8,11	rebuttal (1)	71:8 72:24 74:3,9	recommendations (3) 32:2 123:23 145:11
320:23	279:12,21 281:7	400:9	75:8,9,13 76:6 79:3	recommended (20)
		recall (36)	98:12 108:2,5,5,15	× ,
reach (4)	283:11,13 289:7 293:13,13 295:25	12:22 23:5 24:24	, , ,	28:9 29:10,11,13 31:16,18 32:5 34:19
50:12 155:5,6,8	,		143:19,21,22	-
<b>reached (2)</b> 106:19 254:18	298:4 306:12,23 310:9 331:16	32:11 43:11 44:9	144:23 146:11	34:22,25 35:19
		57:16,18 61:19	168:20 179:16	96:14 97:3 123:21
reaches (2)	337:16 338:16	67:24 69:7 76:20	186:2,2,5 201:18	124:3 157:10
28:10 96:12	341:17,22 347:18 401:11 403:5	77:3 89:17,20,21	225:8,14 226:10	162:20 307:10
react (1)	reading (7)	105:12 111:19	284:13,14 360:12	364:2,7
288:23	131:18 173:10 192:17	165:6 216:25 217:6	360:19,24 361:3,5	<b>recommending (1)</b> 128:19
reaction (24)	192:18 234:9	217:8 227:6 228:2	361:10,12,14,21,23 364:5 371:2 381:8	
143:7 148:9 163:20	286:21 336:5	231:12 292:21,23 293:10 315:21	393:2,8	<b>recommends (1)</b> 124:24
169:2 170:13 180:8			·	
208:15,22 289:13	Reads (1)	334:23 344:16	<b>receives (10)</b>	reconsider (1)
290:21 311:24	403:5	347:11 355:3	46:15 49:5 51:5,10	146:2
312:7,11,17 363:4,9	ready (4)	356:15 363:20	54:9 68:22 73:19	record (22)
363:22 388:17	140:17 275:20 391:11	370:23	114:24 224:24	10:22 11:17,24 13:15
393:23,23 394:4,5	391:13	recalling (1)	390:19	14:3 94:23 95:3
394:12 396:12	real (6)	175:24	<b>receiving (23)</b> 43:13 50:5 53:19	108:22 148:18,22
reactions (58)	253:4 260:3,4 283:18	recap (1)		168:12 173:9
17:6,6,13 147:20,21	395:10,11	74:2	76:20 77:10,13 98:3	222:23 223:3
147:23 148:4 150:4	realized (2)	receive (69)	176:22 179:9,13,24	242:20 250:6 253:9
151:12,13,16,17	65:14 117:8	27:6,7,11,20 28:10	182:2,4 185:9 195:7	308:13,17 347:16
153:2,23 154:25	really (30)	29:24 30:5,8,12,16	220:17 221:24,24	401:5,15
156:14,15 157:19	14:25 15:14 63:6	31:8,20 37:9,23	233:7,24 332:4	recorded (2)
158:11,12,16 159:9	65:10 68:2,11 73:15	38:15 42:8,17 43:24	360:25 365:14	11:20 310:6
160:17 166:6 167:7	78:25 92:15 99:14	44:14 46:22 49:7	recess (4)	records (5)
167:24 168:17	100:14 104:20	51:22 52:2,13 54:4	94:24 148:19 222:24	20:2,4 38:23 43:7
169:7 175:15	134:16 136:2	55:7,21 56:2,9	308:14	361:18
176:20 177:8	166:23 200:22	59:18 60:5 63:11	recipient (1)	recovered (4)
187:17,19,19,23	205:15 212:24	65:6,12,19 66:3	78:17	294:9,16,21 333:2
194:18,20 202:12	220:20,22 238:5	68:21,24 69:25	recipients (2)	recuse (1)
202:13 206:20	268:10 277:24	71:23 73:12,15,21	197:22 394:9	128:18
207:11 263:17	283:17 336:4 363:2	73:24 76:17 79:15	recognize (3)	reduce (1)
289:21 290:17	372:3 384:2 397:22	84:24 108:11 124:6	48:15 337:6 349:15	147:5
327:25 360:5	399:3	126:6 144:19,20	recollect (2)	reduced (1)
387:20,22 389:6	reason (23)	157:17 164:2 168:7	35:23 347:5	256:23
390:23,25 393:6,9	64:24 65:3,5 200:22	168:20,20,23	recollection (13)	reducing (1)
393:19 396:12,21	211:5,17 212:4,9	171:11 175:16	14:6 34:2 35:19 45:11	199:10
397:25 398:8	213:24 235:17	224:25 225:18,23	64:18 69:22 70:13	REEDS (1)
read (68)	255:21 270:25	252:11 282:14	70:23,24 79:2	3:6
19:7 48:17 50:15,19	288:6 338:21,23	345:14 360:23	103:18 126:18	refer (8)
53:10 68:14 69:17	339:6 346:13	362:7 363:24	284:18	19:12 26:21 32:18
70:7 75:20,23 78:4	362:15,24 379:24	received (93)	recombinant (4)	118:8 162:16 187:9
95:10,14 106:5,24	392:4,5 403:5	24:11 26:17 37:20	319:24 320:2 327:4,6	240:22 293:15
107:19 108:21	reasonable (9)	38:12,17 39:21 40:7	Recombivax (6)	reference (1)
121:3 137:12,15	116:3,5,24 117:18	41:3,11 42:5,14,21	4:24 149:4,6,15,24	392:13
154:21 156:12	202:16 226:22	42:22,25 43:3,16	164:6	referenced (1)
172:19 173:6,23	252:2 297:3 379:17	44:4,7,12,17 45:4,5	recommend (14)	19:16
176:24 178:23	reasoning (2)	46:7 51:2 52:18	29:24 30:3,5,8,12,15	references (5)
183:5,9 190:5	168:4 194:17	53:16 54:17,25	31:7,20 32:4 144:11	17:23,25 67:5 166:22
191:17 192:14	reasons (9)	55:15 56:19 58:6	144:13 157:17	173:17
195:17 208:24	74:25 208:17 265:15	59:2,14 60:19 61:14	249:11 252:3	referred (4)
242:8,16,16,21	289:15 328:14	62:25 63:20 67:8,10	recommendation (3)	15:15 63:9 138:7
L				

				Page 34
	I	I	I	I
147:4	322:6	relying (2)	215:14 291:17	312:20 389:6,10,24
referring (4)	relate (2)	167:12 207:4	renders (2)	391:2 392:11
122:18 139:23 228:18	146:16 300:17	remain (1)	215:5,9	395:19 396:2,17,21
301:16	related (25)	319:15	repatriated (1)	397:21 398:9
reflects (3)	14:21 19:21 20:3	remained (1)	372:8	reporter (24)
131:4 185:3 203:21	22:15 37:21 40:8	327:22	repeat (11)	2:10 10:19 11:5 13:11
Reform (2)	42:15 58:7 76:18	remaining (4)	40:9 53:17 108:13	13:21 75:23 92:18
129:23 131:3	77:11 79:5 104:25	229:19,22 315:22	244:5 260:8,13	92:20 95:14 137:15
refresh (4)	111:12 112:23	316:9	261:2,9 277:23	204:7 240:12
64:18 69:22 70:13	156:2 179:8 180:3	remains (7)	284:25 349:2	242:18 260:20
79:2	181:7 244:7 312:24	124:4 173:25 189:6	repeated (2)	284:10 341:19,22
refusal (1)	340:13,17 341:25	290:2 301:20	147:9 272:13	353:16 364:4
16:23	342:8,21	317:22 326:13	repeatedly (1)	400:24 401:7,10
refuse (2)	relating (3)	remember (45)	43:21	402:10,23
379:12 380:10	8:18 19:24 304:3	18:11,14,15 25:9	repeating (1)	reporter's (1)
refused (2)	relation (11)	32:14 33:13 34:7	206:23	13:15
379:8,9	114:2 153:9,22 217:7	35:4 36:3 44:7 57:6	repetition (3)	reporting (9)
refuses (1)	218:8,15 229:7,15	64:2 68:8 69:6,10	207:19,22 268:2	10:17,20 242:11
379:19	266:18 304:16	75:12 76:4 83:2	rephrase (1)	388:12 391:9,16
refusing (1)	315:12	87:15 126:17	151:3	392:2 396:6,10
357:16	relationship (23)	127:12,13 141:23	replaced (1)	reports (32)
refuted (1)	153:10,10 154:10	143:24 145:18,20	324:6	145:12,16,18 147:23
277:21	155:2,12 156:18	154:8 175:23 241:8	replicate (7)	151:13,16,21,24
regard (12)	213:3,5 220:2,5,9	291:8,22 303:19	118:21 119:2,5,13,16	152:2,9,22 158:19
45:3 154:20 163:4	228:15,16,23	309:9 343:3 344:22	315:9 322:25	159:6 237:18
190:23 216:20	234:13,22,25	345:5 348:25 349:6	report (60)	244:14 258:15,16
242:4,8,17,22 243:5	235:11 238:9	349:8 351:23 352:5	116:12,14 129:23,25	272:8,9,12,18
306:13,22	242:25 244:21	353:3,8 362:5	131:2,2,8 132:12	389:15 390:8
regarding (10)	246:24 302:22	386:22	153:5,16,21 200:9	394:18,24,25 395:2
129:19 146:19 215:18	relatively (8)	remembered (1)	215:18,21,23 217:3	395:12,24 396:4,5
216:15 227:2 230:3	35:8 116:4 117:7	352:2	220:13 221:5	397:24
248:3 272:22 304:2	171:10 181:5	remind (3)	226:25 227:3,16,20	represent (2)
399:24	284:23 290:17	154:9 260:9 261:5	230:2,9,14,18,21,24	51:2 104:6
regardless (2)	386:12	reminded (1)	231:3,8,20 232:5,6	representative (1)
284:22 345:14	release (6)	396:10	232:10,13,14,20	126:9
regards (3)	4:14,15 64:9,11,25	remit (1)	233:24 234:2,5,6,10	representatives (3)
126:12 154:5 307:16	369:6	61:18	234:15 235:17	129:22 131:3 135:19
registered (4)	released (5)	removed (6)	239:21 241:25	represented (1)
2:9 284:19 402:9,22	135:17,20 333:22,25	117:9 314:10 316:6	242:22 245:9 247:6	115:22
registers (1)	378:4	316:23 318:2	248:21 272:22	represents (2)
258:8	relevant (6)	326:10	273:3 288:18	234:21 397:20
regularly (3)	65:24 66:2 85:17	remunerated (2)	388:16,21 390:22	request (7)
134:17 308:6,8	244:12,14 306:20	38:8 117:12	391:8,14 397:12	16:5 39:19 60:14
regulating (1)	reliably (1)	remunerates (1)	399:19	71:10 159:16,25
120:9	156:17	115:2	reportable (2)	273:4
<b>Regulations (2)</b>	relied (1)	remuneration (20)	390:19 394:21	requested (1)
150:10 158:14	254:4	38:12 42:9 43:14,17	reported (37)	272:7
reject (4)	religious (5)	43:25 44:5,8,15	1:23 129:21 150:7	requests (4)
154:10 219:6 234:22	265:14 357:16,18,21	45:3 54:17 59:20	151:14,18 152:24	9:8 39:23 114:24
242:25	358:5	60:5 62:24 67:15	155:18 156:14,16	395:14
rejected (2)	reluctantly (1)	74:5 75:8 116:25	156:24 159:4	require (4)
228:16,25	106:20	233:8 264:17	161:18 162:17	101:7 119:15 122:25
rejection (5)	rely (7)	365:14	169:8 176:20 185:4	362:19
155:2 228:23 234:24	106:14,17 123:23	remunerations (1)	198:16 211:7,8	required (6)
235:6 245:20	174:5 207:5,20	38:17	234:12 247:4	22:5 49:9 51:7 152:23
rejoin (1)	264:2	render (2)	311:23 312:6,11,16	153:5 362:6
	I	l	I	I

				Page 35
	I	1	I	1
requirement (1)	result (9)	365:19	254:12,14,16,20	244:23 322:10 389:20
58:12	94:6 121:24 125:12	rewarded (1)	256:8 259:9,13,14	Rotarix (2)
requires (3)	130:12 261:25	74:20	259:19 262:10	33:4,9
174:12 212:24 238:10	290:20 301:24	rheumatic (1)	263:2,3,11 264:21	RotaTeq (23)
research (9)	304:18 330:22	191:20	268:10 269:12,15	33:3,8 61:25 62:7,14
78:22 100:9 106:16	results (10)	rheumatoid (4)	269:23 271:10	62:25 63:12,14,21
221:5,12 230:11	8:22 9:4 24:17 96:10	212:11,15,16 214:25	276:3 280:25 281:5	63:24 64:12,19 65:4
232:10 289:12	100:15 198:7 268:3	rheumatologist (2)	282:17 286:17	68:18,25 69:8,20
360:6	392:14,18 399:13	195:16 196:16	287:21 292:15	70:11,15,20 127:18
researcher (4)	retained (3)	rheumatologists (1)	293:12 301:15	127:19,23
147:12,13,14 291:13	5:14 59:16 372:10	189:19	310:21 315:6	rotavirus (27)
researchers (1)	retarded (1)	rhinitis (2)	316:16,22 317:21	28:16 30:2 32:23,25
399:21	348:16	276:16,23	318:3 319:11	57:3 58:17 59:7
resent (1)	retrospective (8)	<b>Rice</b> (1)	320:19 322:3	61:24 62:4 76:23,25
74:22	257:12,15,19 258:21	298:14	325:10,13 326:16	111:24 112:11
reserve (1)	259:4 267:12 268:9	rid (1)	326:19,24 327:23	126:15,24 127:3,21
400:9	269:22	370:13	330:12 331:7 337:3	127:24 128:3,14,15
resort (1)	retrovirus (1)	ridiculous (2)	337:9 338:10,10	128:19 129:10,20
381:11	333:7	252:14,16	343:21 345:23	136:12 332:20
resources (4)	Retroviruses (1)	right (189)	346:22 350:19	333:18
110:21 263:13 281:3	333:9	16:14 25:12,13 30:6	352:3,4 359:11	Roughly (1)
281:4	return (4)	35:22 39:25 48:5	360:9 364:22 366:8	133:10
respect (3)	49:14,21,22 381:4	52:24 53:13 61:12	374:12 375:14	routine (1)
147:14,15 297:4	returns (2)	64:21 77:5 80:6	376:4 377:14,23	386:17
respectable (2)	53:23 68:14	83:8 84:2 86:4,5,21	380:17 387:7	routinely (2)
292:7 303:21	revenue (6)	90:13 91:15,18	388:18,19,22 390:5	291:10 331:22
respected (5)	58:6 63:11,20 103:7	93:12 110:10	392:9,16 393:10,20	row (1)
147:12,13,14 191:5	262:21 263:9	115:25 121:11	393:24 394:7,12,15	275:21
287:6	revenues (2)	125:4,11,16 126:14	394:21 395:20	Royal (5)
respects (1)	50:17 70:11	126:21 132:20	396:14,23 401:2	8:20 365:25 366:23
286:4	review (26)	142:15 143:2 149:4	rights (2)	367:9 371:17
respiratory (4)	19:13 149:7 158:7	151:8 156:19,21	58:2 62:22	royalties (4)
182:14,16,18 183:4	159:19 165:23	161:5 162:13,22	risk (5)	56:2 59:19 108:2,6
respond (7)	167:2 169:17,18,22	165:5,19 170:2	328:16 358:15,16	royalty (12)
95:12 139:17,20	177:21 178:12	171:18 176:13	380:7 387:13	4:13 64:10,11,11 67:7
221:19 338:7,8	216:7 221:7 227:25	177:9 179:5,12,15	risk-modifying (1)	69:8,20,21,23 70:11
395:14	231:11 232:10,11	179:22 181:10	288:20	70:12 107:10
respondent (1)	232:20 236:6 251:9	183:13 185:10	risk/benefit (1)	<b>RPR</b> (1)
115:18	251:11,15 252:16	186:18,19,19 187:6	358:10	1:24
responding (1)	252:17 256:5	192:17 193:18	risks (7)	Ruanda-Urundi (3)
250:12	262:25	195:22,24 197:15	164:22 260:3,4 262:3	350:21 356:9 357:6
responds (2)	reviewed (20)	198:5,24 199:11,13	358:20 379:5,6	rubber-stamp (2)
140:16 141:4	18:3 20:2 81:13	201:5,8,20 202:10	RNA (5)	132:25 133:2
response (14)	157:19 167:4 204:2	202:21 203:12,14	23:22 118:25 120:2,4	rubber-stamps (1)
141:10 170:3 188:25	214:19,23 215:11	203:15 218:24	120:13	132:21
273:3,6 285:7	215:16 219:3,11	219:12 221:16	Road (2)	rubella (39)
293:24 294:2	232:7 234:6 235:18	226:14 229:24	2:8 10:14	4:18 5:19 8:11 12:6
301:13 336:25	237:17 243:4 247:5	230:16 234:10	Rodrigues (1)	12:13,16,17,20 28:6
337:4,12,14,21	248:20 250:3	235:7,11,20 236:4	81:4	57:3 58:17,18 59:3
responses (5)	Reviewers (1)	236:12 237:22	role (6)	59:10,10,15,20
93:25 173:15 192:10	231:25	238:3,7,25 239:20	16:13 47:14 127:10	60:19 76:21 77:5,12
264:8 285:5	reviewing (2)	239:24 240:6	127:12 168:2 191:9	77:18 78:6,22 79:9
responsiveness (1)	19:12 233:23	241:22,25 245:25	Roman (5)	112:5,9 175:3 192:6
232:16	reviews (3)	246:7,12 247:17	190:18,18 231:23,23	192:9 215:24
rest (2)	206:14 221:14 222:3	250:20 253:17,18	231:24	216:13 217:18
186:23 335:14	revolving (1)	253:21,22 254:5,6	room (3)	322:17 324:11
	l		l	I

348:10 363:14	359:19,24 399:7,16	287:8	256:11 298:2	129:15 131:22
385:3,7	Safra (1)	saving (1)	304:25 307:10	144:5 198:6 199:23
Ruby (32)	106:6	287:14	314:5 316:3 318:11	228:4 242:7,18
3:7 10:25,25 11:17	sake (1)	saw (2)	320:6 322:14 324:2	265:10 284:8,9
48:4,9 52:18,23	359:25	80:11 206:9	325:3 327:4 334:11	302:16 307:20
64:14 69:25 70:5	sale (17)	saying (49)	334:22 335:2 362:8	319:10 320:24
72:23 73:4 77:19	45:7,10 58:7 59:3,15	15:16 46:21 55:5	386:17	358:21 366:25
79:15,18,22 161:6	59:19,20 60:19	66:15,19 77:11	Schmitt (7)	369:24 395:10
274:8,11,13 297:13	63:12,14,21 67:6,19	84:24 98:23 154:22	1:5,8 10:10,10 11:4	396:14
302:14 321:10	68:25 70:22 108:2,6	156:9 172:10,17,18	26:4,12	second-to-last (1)
322:5,11 347:20,23	sales (7)	173:20 174:14	school (8)	217:23
350:25 351:20	62:25 70:20 103:8,16	187:22 188:19	96:10 106:7 193:8	secondhand (2)
352:15,19	104:7 136:15	192:13 207:3 208:3	273:23 278:19	15:18 51:25
rule (2)	262:22	208:4 233:19,19	298:13 363:20	secondly (1)
13:22 350:13	saline (33)	237:4,7,25 238:23	391:19	154:14
rules (1)	182:2 185:15,19	243:13 247:8	science (26)	seconds (1)
13:8	186:3,6,11,12,16,22	250:15,18 252:15	17:14,17,21,22 141:2	94:14
run (2)	180.3,0,11,12,10,22	255:7 257:8 259:13	147:7 154:13 174:6	secret (1)
94:19 96:4	194:14 195:3,8	262:11 266:23	207:15,17 229:24	140:6
<b>running (2)</b>	· · · · · · · · · · · · · · · · · · ·	270:19,24 284:4	236:7 238:5,8 248:2	secretary (3)
268:10 300:2	196:23 197:11,22	285:3,17 316:21	· · · · · · · · · · · · · · · · · · ·	
	198:14,18 199:5,22	<i>.</i>	250:3 255:17,23	81:11 115:19,21
runny (1)	200:5,14 201:7,19	339:4 347:8,11	274:18 287:12	secrete (1)
276:19	201:22,25 202:5	353:18 372:14	290:12 291:16	138:5
runs (1)	204:12 206:13	382:8	292:4,7 293:9	secreting (1)
305:17	207:4 226:2 398:18	says (59)	359:13	139:15
Russia (1)	Salk (1)	19:9 48:17,25 50:7,20	Sciences (1)	section (23)
378:15	166:10	50:20 52:11 72:12	305:13	49:24 72:12 149:19
	salt (1)	106:12 107:7	scientific (17)	149:22 150:9
S	294:21	152:21 156:8,13,21	22:14 23:25 38:2	151:11,12 156:11
S-Y-N (1)	sample (8)	178:25 179:14	48:20 66:14,15,19	156:13 158:5
89:15	280:17 372:13,15,16	180:10 181:8,11	83:23 87:7 110:15	161:13,14 167:22
safe (10)	372:17,18 374:15	185:21 197:18	249:22 251:8	170:12,13 178:7
57:13 67:5 166:7,25	374:21	203:20 218:15	252:17 293:14	197:23 203:17
201:4 330:9 334:16	samples (14)	221:5,11,12 229:6	307:24 379:2	207:12 231:25
359:14 364:9,18	280:22,23 370:19,22	230:10 232:5,6,17	399:20	243:24 311:24
safer (3)	370:23 371:4,5,8,11	232:22 274:2	scientifically (2)	312:7
125:19 225:6 359:25	371:14,23 372:13	275:21 276:15,21	399:2,11	see (96)
safety (61)	373:17,19	276:25 280:17	scientist (6)	18:12 21:3 48:19,24
19:16,17 142:14	San (2)	283:4 288:21	147:8 247:11,15	48:25 49:23 50:4,7
143:2,9 149:7,24	22:11,11	289:11 294:20	249:19 287:6 308:5	52:11,14 57:3 80:7
143.2,9 149.7,24	Sanofi (32)	310:5 317:18 318:6	scientists (7)	81:20,23 82:3,8
163:13,23 165:23	5:7 33:12 34:3 35:11	321:2,4,19 345:13	47:4 147:2,15 292:18	83:6,19,22,22
165:15,25 165:25	36:4,25 37:9,20	348:14,15 369:25	354:16 355:21	111:18,18 133:13
168:10 169:13,17	38:2,13,17 39:21	392:8,18,19 395:10	367:15	134:14 151:5 163:8
· · · · · · · · · · · · · · · · · · ·		395:16,17,18	sclerosis (12)	
169:18,21 171:19	40:7 41:4,20,23	scanned (1)		168:24 173:13
172:8 176:2,8	42:6,10,19 45:17,21		152:11,12 153:7,8,14	176:5 178:8 180:22
177:20 178:12	46:8 54:25 72:19	18:10	154:2,19,22 155:7	187:3 195:6 197:14
180:7 183:18 204:2	76:25 83:24 84:4,7	scavengers (1)	155:25 156:9	197:15,21 198:6,13
206:14 215:19	165:20,20 233:8,10	295:9	161:22	201:17 211:5,17
221:9,14,22 222:3,4	Sanofi's (1)	scenic (1)	scrutiny (2)	212:4,9 213:14
222:5,8 223:22	103:23	355:7	132:7 136:7	218:10 228:3,17,22
224:15 225:5 227:2	sat (1)	schedule (32)	searched (1)	228:25 229:6,9,12
230:14 258:10,20	267:7	28:2,3 31:25 98:4	216:15	229:16 230:8,10
266:22 307:7	saved (1)	123:9,15,19 183:20	second (27)	231:23,24 232:3
330:10,18,20 331:9	374:12	223:9,12,23 224:25	49:23 52:23 64:15	234:18,19 245:11
331:17 359:10,14	saves (1)	225:6 226:3 239:24	73:2 79:18 129:5,8	245:18 251:3
L				

				2
265:11 267:21	send (1)	387:19,22	4:12 53:4 403:1	sic (7)
	16:7			
274:17 275:15,21		seriously (1)	shifted (1)	92:25 234:9 259:6
276:11,21,24,25	sending (1)	287:7	335:22 Shoonfold (7)	352:24 353:11,13
277:20,25 279:18	373:8	seronegative (1)	Shoenfeld (7)	362:21
283:5 291:6,7	sends (1)	348:16	189:15 190:22 191:10	sick (3)
299:11 301:12	184:13	seropositive (1)	191:11 192:7	100:20 203:10 375:20
313:8 317:17 318:6	sense (11)	370:24	193:11,19	side (1)
319:10 335:10,12	44:11 104:6 128:21	serum (22)	Shoenfeld's (1)	53:6
335:23 336:4	129:9 132:10	316:3,5,6,9,18,21	193:11	sight (1)
338:21 359:17	223:13,21 255:12	317:18,24 319:9	shooter (1)	136:5
389:8 392:8,12,13	260:4 342:22 345:2	325:6,7,8,8,15,25	366:3	sign (1)
397:14 399:9	sensitize (1)	326:9,23 327:8,12	short (4)	401:11
seed (2)	316:8	327:13 337:19	300:2 320:9 321:11	signals (1)
323:17,18	sensitized (1)	376:25	353:10	209:7
seeing (1)	319:3	serve (3)	shortage (1)	Signature (2)
194:21	sensitizing (1)	107:7 112:11 125:24	129:12	401:20 403:21
seek (2)	319:8	served (5)	shortly (3)	significance (1)
88:6 113:12	sent (5)	109:15 110:14 111:8	358:14 384:6,8	267:21
seeking (3)	15:15 48:9 216:8	111:12 113:5	shot (15)	significant (6)
179:25 181:15 233:16	373:17,19	serves (1)	29:2,4 30:23 34:9,13	143:3 199:17 200:8
seen (15)	sentence (11)	283:25	34:16,18 182:25	200:12 268:21
97:19 105:12 124:5	50:8 70:7 178:23	service (2)	183:2,3 209:16	377:18
132:25 184:16	221:6 279:21 280:4	50:21 109:14	210:18,25 211:11	significantly (3)
194:18 220:21	288:21 306:23	services (6)	360:15	225:2 279:25 335:22
238:24 266:18	307:14 347:18	50:22 54:11 109:2	shots (5)	simian (5)
279:5 295:21,24	392:15	110:21 115:7,9	34:13,18,19,24 35:19	331:25 332:7,8,10,18
305:23 330:21	sentences (2)	set (6)	shoulder (1)	similar (16)
363:13	232:4 279:11	47:20 116:23 181:14	209:5	67:15 73:12 116:14
sees (2)	separate (2)	181:16 221:20	show (36)	121:5 122:2,21
47:5 144:24	21:16 195:4	222:2	53:15 85:17,19 118:5	224:3 264:19
Seidman (1)	separately (2)	settings (1)	146:8 173:15 185:9	265:19,20 278:6
56:18	150:7 194:15	107:15	194:15 199:17,23	281:14 282:20
seizure (5)	separating (1)	seven (11)	200:5 206:10,12	309:15 358:18
150:19,20 152:13,14	187:19	80:16 82:4 197:24	224:2 236:20 238:8	395:24
180:12	September (1)	229:17 231:24,24	239:20,21 241:13	similarities (3)
seizures (4)	8:21	239:14 279:17	243:7 246:8 258:16	120:19,24 121:22
143:4 162:4 175:16	Seqirus (1)	311:9,16 347:25	278:9 283:25	similarity (7)
209:14	72:20	seventh (2)	295:21 299:20	120:17,22 121:17
seldom (1)	sequence (3)	173:12 197:24	330:7 331:2,6	120:17,22 121:17
13:5	120:17 122:11 140:23	Seventy-six (2)	382:11 387:23	similarly (3)
Selective (1)	sequentially (1)	343:5,6	391:6 396:5,6 397:2	59:7 221:14 254:7
7:18	286:15	severity (1)	399:14	simple (3)
Selects (1)	series (2)	169:7	showed (2)	34:16 247:25 251:17
105:25	94:11 95:21	sewage (2)	195:3 254:15	simpler (2)
self-antibodies (1)	serious (34)	382:2,5	showing (9)	35:17 41:14
326:21	60:13 66:21 164:15	share (2)	57:12 67:5 72:10	simply (9)
selling (2)	166:6 179:5 180:11	103:21 230:6	243:10 285:15	16:3 23:25 84:19
69:7 70:14	180:15,20,25 181:3	shared (1)	292:14 330:15	206:25 255:10
sells (2)	180:15,20,25 181:5 181:6,23 182:3,8,12	120:16	362:24 382:16	262:11 263:19
33:7 69:19	181:6,23 182:3,8,12	sharing (1)	shown (9)	282:24 400:2
semen (1)		370:11	146:7 147:3 285:13	single (8)
329:20	207:11 215:23		302:20,24 367:16	
semester (1)	219:4 227:21	Shaw (8)	377:17 383:6 386:4	147:11 198:15 207:18
	230:16 234:11	7:22 291:23,25		207:20 243:22,25
82:19	248:17 249:9 251:8	292:22 307:21,25	shows (5)	250:4 263:14
semi-governmental	290:18 291:16	308:5 309:15	53:6 185:16 199:19 296:25 330:18	single-strand (1)
51:12	360:6,8 363:22	sheet (3)	270.23 330.18	328:19
	1	1	1	1

	•		1	
sir (2)	363:14	socioeconomic (3)	64:21 232:13 269:4	speed (1)
174:22 280:4	sites (1)	262:15 266:2 267:9	sounded (1)	219:18
Siri (162)	18:8	soft (1)	377:23	
		10:4		spell (4)
3:3,5 4:5 10:23,23	sitting (5)		sounds (4)	350:25 352:15,19,21
11:15,22 18:23	27:13,16 73:17,20	sold (14)	47:16 68:10 298:4	spelling (2)
25:10 40:2,4 45:13	172:21	63:23 64:3,18 65:4	360:20	92:17,19
45:16 48:6,13,14	situation (7)	69:23 70:10,16,17	Sourasky (1)	spellings (1)
49:15,19 51:18,20	116:23 117:2 153:19	136:13 311:8,22	192:20	353:17
52:9,21 53:2,4,9,14	213:6 221:21	312:5,9,16	source (3)	spend (1)
60:14,16 64:7,16	358:18 379:25	sole (2)	61:3 116:13 216:13	272:5
65:17 69:16 70:6	six (20)	40:19 47:9	South (1)	spends (1)
71:10,12 72:6 73:5	34:21 80:16 82:4 83:8	solely (1)	24:6	263:9
75:20 76:16 77:23	143:20,21 196:7,12	281:21	speak (10)	spinal (1)
78:3 79:12,23 88:14	197:24 203:25	solicited (4)	10:3 15:19 134:18,21	209:8
88:15 94:15 95:5,6	204:2 205:21	147:20,21 148:2,4	135:4,9,14 228:8	Spleen (1)
95:10 97:2 130:20	229:17 240:6	solid (2)	314:15 365:10	344:11
130:24 131:13	279:17 282:14	192:9 363:2	speaker (1)	spoke (2)
137:24 145:15,17	285:22 307:13	solitary (1)	322:9	299:3 359:6
148:16,24 149:12	364:12 397:4	263:14	speakers (1)	sponsored (1)
155:13,16 157:24	six-month (2)	somebody (5)	107:10	23:14
159:16 160:3,4	185:12 195:14	66:4 115:5 135:22	speaking (5)	sponsoring (2)
161:12 167:19	sizable (3)	379:3 380:3	16:10 135:14 180:5	23:13 107:16
168:6,14 170:8	38:20 71:2,3	someplace (1)	190:4 379:21	spread (4)
173:9,19 178:2	size (4)	374:16	speaks (1)	119:19 139:18 375:21
184:4,17,18 189:22	156:17 239:16 337:3	something's (1)	204:15	381:5
197:8 202:24 204:8	337:9	311:4	specialist (1)	stabilize (1)
217:14 222:16,20	skin (1)	somewhat (1)	10:16	327:9
223:5 227:13	344:7	362:9	specialists (1)	stage (2)
231:19 240:13,14	skipping (1)	soon (3)	249:5	289:18 332:12
241:17 245:13,17	289:25	101:11 361:2 398:12	specific (7)	stand (6)
245:19 248:14,19	slightly (2)	sore (1)	20:12 39:18 111:16	52:12 114:12 186:25
250:2,10,14 260:17	199:8 206:5	167:7	146:18 167:11	280:11 332:6
261:13 264:12	Slow (2)	sorry (52)	194:22 289:21	357:24
273:14 274:5,9,14	7:10 298:17	23:11 29:6,20 33:6,19	specifically (18)	stand-out (1)
278:13 282:5	slowly (1)	35:15 44:20 45:13	19:9,24 147:24	310:11
288:15 289:5 296:4	106:20	52:23 58:15 101:16	150:14 153:6 154:4	standalone (1)
297:7,17 299:8,18	smacking (1)	112:4 120:11	154:14 160:18	165:11
301:8 302:6,18	130:21	121:15,20 140:21	196:17 206:20	standards (1)
305:6,21,22 308:10	small (4)	155:5 170:13	217:8 231:12	232:15
308:19,25 309:13	142:8 201:9 337:5,25	171:14 179:20	272:12 292:23	stands (3)
309:19 317:2	smallpox (3)	184:5 197:16 208:7	306:22 347:12	33:22 109:23 112:16
320:10,13,17,21,25	291:9,10,11	226:7 231:2 235:5	348:25 349:8	Stanley (407)
321:14,18,25 322:4	Smith (1)	241:21 242:15,18	specimens (1)	1:10 2:6 4:4 10:1,8
322:12 340:22	78:17	245:17 260:16	371:19	11:1,8,25 12:1 13:1
341:20 342:6	smoke (1)	267:5 274:6,8,13	spectrum (3)	14:1 15:1 16:1 17:1
347:17,21 348:2,4,7	366:6	276:2 282:9 284:9	277:6 280:15 306:19	18:1 19:1 20:1 21:1
349:13 351:2,3,24	so-called (7)	291:24 314:7,22	speculate (2)	22:1 23:1 24:1 25:1
352:16,20 353:19	96:16 100:12 274:20	325:22 326:25	14:4 168:3	26:1 27:1 28:1 29:1
353:20 366:11,14	290:10 322:23	347:9 353:12,19,23	speculating (2)	30:1 31:1 32:1 33:1
366:21 388:2,7,10	360:3 385:6	367:12,21,22	160:13 383:11	34:1 35:1 36:1 37:1
391:5 397:6,11	social (3)	382:19 394:20	speculation (2)	38:1 39:1 40:1 41:1
400:6 401:16	303:11 343:13 349:25	sort (7)	159:13,14	42:1 43:1 44:1 45:1
sit (3)	society (8)	18:10 68:10 87:11	speech (3)	46:1 47:1 48:1 49:1
159:12 266:7 365:13	8:9,20 348:22 349:23	175:17 192:25	134:6,10,14	50:1 51:1 52:1 53:1
site (5)	365:25 366:23	222:4 283:16	speeches (1)	54:1 55:1 56:1 57:1
294:10,16,22 329:20	367:9 371:18	sound (3)	352:2	58:1 59:1 60:1 61:1
	l		l	

### 62:1 63:1 64:1 65:1 236:1 237:1 238:1 stimulate (1) Stanleyville (11) 45:14 66:1 67:1 68:1 69:1 239:1 240:1 241:1 351:15 352:10,23 188:20 student (1) 70:1 71:1 72:1 73:1 242:1 243:1 244:1 353:6 354:14.16.24 stimuli (1) 16:17 356:15,18 357:3 74:1 75:1 76:1 77:1 245:1 246:1 247:1 304:19 studied (7) 78:1 79:1 80:1 81:1 248:1 249:1 250:1 153:8,15 174:2 286:3 374:19 stipulate (3) 82:1 83:1 84:1 85:1 251:1 252:1 253:1 start (8) 58:8 346:5 365:10 290:16 306:17 86:1 87:1 88:1 89:1 254:1 255:1 256:1 10:6 43:19 121:19,20 307:9 stock (6) 90:1 91:1 92:1 93:1 257:1 258:1 259:1 121:21 140:4 45:17,21 46:2,4 studies (104) 260:1 261:1 262:1 94:1,22 95:1,2 96:1 279:21 321:15 323:17,19 19:16 57:19 98:7 97:1 98:1 99:1 263:1 264:1 265:1 starting (1) stop (3)100:13,22 102:12 100:1 101:1 102:1 266:1 267:1 268:1 214:24 28:8 314:8 381:5 102:14,14 144:4,5 269:1 270:1 271:1 103:1 104:1 105:1 starts (3) stopped (2) 145:9 146:3 153:18 272:1 273:1 274:1 106:1 107:1 108:1 190:18 195:22 279:18 42:18 356:11 154:13 162:15 109:1 110:1 111:1 275:1 276:1 277:1 state (11) 166:5 174:25,25 stops (1) 112:1 113:1 114:1 278:1 279:1 280:1 1:2 10:11 11:23 14:5 250:22 175:24 180:5 281:1 282:1 283:1 25:4 108:22 252:7 115:1 116:1 117:1 182:23 203:18 stories (1) 118:1 119:1 120:1 284:1 285:1 286:1 273:24 278:19 207:5,18 212:13 19:4 121:1 122:1 123:1 287:1 288:1 289:1 326:5 367:20 story (2) 213:25 214:4 124:1 125:1 126:1 290:1 291:1 292:1 stated (11) 221:23,25 224:21 117:10 183:7 127:1 128:1 129:1 293:1 294:1 295:1 67:12,18 68:17 243:10 245:21,25 strain (4) 130:1 131:1 132:1 296:1 297:1 298:1 246:21,23 256:14 153:13 168:24 322:19 324:22,23 299:1 300:1 301:1 133:1 134:1 135:1 230:2 234:14 236:2 259:14,16,18,21 372:23 136:1 137:1 138:1 302:1 303:1 304:1 236:3 346:19 263:25 266:10,16 strains (6) 139:1 140:1 141:1 305:1 306:1 307:1 365:25 323:7,9,22 342:11,12 266:18,19,21,22 308:1,12,16 309:1 142:1 143:1 144:1 statement (14) 268:3,4,8 278:6 342:18 310:1 311:1 312:1 145:1 146:1 147:1 17:15,18 154:17 280:20 281:2,10,14 strands (2) 313:1 314:1 315:1 148:1,21 149:1 163:15 216:23 329:11 338:18 281:16 282:19 316:1 317:1 318:1 150:1 151:1 152:1 246:14 247:12 285:5,7 286:7 strategies (1) 153:1 154:1 155:1 319:1 320:1 321:1 248:4,6,24 251:20 290:19,22,25 291:2 290:3 156:1 157:1 158:1 322:1 323:1 324:1 252:4 357:24 291:4,5 295:21,24 stress (1) 325:1 326:1 327:1 159:1 160:1 161:1 392:12 295:25 298:22 58:11 328:1 329:1 330:1 162:1 163:1 164:1 statements (1) 300:3,5,18 304:2,3 stressed (1) 165:1 166:1 167:1 331:1 332:1 333:1 262:24 306:20 308:5 220:16 334:1 335:1 336:1 168:1 169:1 170:1 330:10,11,12,13,20 states (28) strike (27) 337:1 338:1 339:1 171:1 172:1 173:1 21:6,19 22:4 24:19 330:20 331:6.8.9 34:13 54:21 85:4 340:1 341:1 342:1 174:1 175:1 176:1 345:3 347:5 349:24 124:2.19 126:4 104:15 112:15 343:1 344:1 345:1 177:1 178:1 179:1 359:10.14.24 151:23 152:6,7,8 121:16 125:22 180:1 181:1 182:1 346:1 347:1 348:1 375:22 376:9,10 165:12 169:15 165:22 214:14 183:1 184:1 185:1 349:1 350:1 351:1 171:10 184:20 217:5 243:23 382:11,13,22 383:5 186:1 187:1 188:1 352:1 353:1 354:1 268:25 269:10 257:18 262:6 278:4 384:24 385:15.16 355:1 356:1 357:1 189:1 190:1 191:1 385:18 386:3 273:19 287:20,24 279:15 282:22 192:1 193:1 194:1 358:1 359:1 360:1 367:23 373:6 377:9 studiously (1) 303:6 326:25 338:2

53:18

study (219)

5:15 6:8 66:22 97:17

101:15,18,19,24

102:2,3,5,7 116:8

145:4,6,24 146:5

155:21 157:4,12

176:4,9,10 177:5

191:23 196:19,20

197:5,18 201:2

178:25 180:7

182:21 183:5

160:11.18 162:10

162:12,16,22 168:3

367:7,20 382:19

398:19,21

strong (2)

strongly (1)

structure (4)

structures (6)

337:18,23

338:5

stuck (1)

336:23,24 337:7

120:5,7,8 327:15

213:3,4

53:24

390:17,17 397:22

380:15,18,21,25

200:11,15 267:21

statistically (3)

statistician (1)

statistics (1)

stenographic (2)

250:6 347:15

381:6

213:3,4,9

200:11

200:15

step (1)

222:12

statistical (3)

195:1 196:1 197:1

198:1 199:1 200:1

201:1 202:1 203:1

204:1 205:1 206:1

207:1 208:1 209:1

210:1 211:1 212:1

213:1 214:1 215:1

216:1 217:1 218:1

219:1 220:1 221:1

222:1,22 223:1,2

224:1 225:1 226:1

230:1 231:1 232:1

233:1 234:1 235:1

227:1 228:1,5 229:1

361:1 362:1 363:1

364:1 365:1 366:1

367:1 368:1 369:1

370:1 371:1 372:1

373:1 374:1 375:1

376:1 377:1 378:1

379:1 380:1 381:1

382:1 383:1 384:1

385:1 386:1 387:1

388:1 389:1 390:1

391:1 392:1 393:1

394:1 395:1 396:1

397:1 398:1 399:1

400:1 401:1,4

202:18 204:12	stuff (3)	141:7	327:20,22 339:3,8	symptoms (2)
202.18 204.12 206:13 207:20	49:9 172:6 337:18	superior (1)	344:17 354:4 358:6	148:3 301:4
212:25 223:8,17	subject (3)	315:19	369:8,11 373:15	Syn (1)
224:9,20 225:21,25	168:19 286:21 306:14	supply (2)	378:23 383:16,17	89:15
226:12,22 230:4	subjects (3)	129:13 324:12	383:17,19 385:16	syncope (1)
232:16 238:13,17	111:16 158:9 185:9	support (26)	386:12 388:2	162:4
238:22 239:7,9,10	submit (3)	8:23 17:15,17 51:14	surprise (1)	syndrome (17)
239:14,14 243:11	115:6 388:21 394:25	54:11 73:21 160:20	231:9	151:22 152:4,9 162:3
243:16,22,25 244:3	submitted (5)	207:24 208:2	surprised (6)	189:11,12 190:24
246:5,8 250:4	105:23 365:24 366:23	228:15 236:7	251:3 272:20,21	193:14,15,17,20,23
251:24 254:3,15	367:9 395:3	255:17,24 329:17	273:2,5 295:20	209:17,20,22,24
256:9,15,18,19	subpoena (1)	330:25 342:16	surprising (2)	211:14
257:3,5,8,12 258:7	321:2	360:6 362:19	231:5 272:15	synthetic (1)
258:22 259:4,25	SUBSCRIBED (1)	364:19 391:8,15	surrogates (1)	89:18
260:7,25 262:8,17	403:22	398:22,25 399:3,10	376:3	system (32)
263:14,20,22,24	substance (10)	399:12	surveillance (1)	7:20 117:16,17,22
264:8 266:24 267:3	14:10,18 16:24 17:2	supported (5)	230:11	131:5 136:19 137:5
267:6,8 268:4,15	174:12 179:10,13	219:5 234:13 243:22	survived (2)	137:6,8,9,18,20,25
270:12,19,21,22	179:24 187:14	250:4 254:15	374:5,16	140:8,15 151:14,15
271:20,23,24 272:3	334:20	supporting (1)	surviving (1)	152:8 161:17,21
272:6,13,19,23,24		244:2	378:12	188:20 209:8
272:0,13,19,23,24 273:4,7,9,11,17,17	substances (4)			264:21 307:3 337:6
273:21 274:15	138:5 139:15 140:6	supports (6)	susceptibility (1) 289:14	358:8 388:12
275:13,14 277:21	313:25	66:23 116:8,14		
277:23 278:2,3,7,9	substantial (4)	209:23 235:10	susceptible (13)	390:23,24 391:9,16
	59:6 75:13 76:5 130:3	329:18	99:8 101:2 214:13,18	399:4
278:16,24 279:5	substrate (2)	suppose (10)	291:17 307:4 308:4	system-wide (1)
280:13,19,21 281:5	328:18 329:4	134:12 136:10 211:9	313:25 362:13	136:20
281:7,25 282:10,13	subtract (2)	223:11,14,18	377:15,18 381:12	systematic (1)
282:18,21,23,23	198:21 229:20	224:12 257:13	393:22	224:21
283:12,15 284:5,12	sue (1)	340:9 365:5	suspect (3)	systemic (15)
284:15 296:8,9,18	125:17	supposed (7)	200:23 217:24 258:7	7:12 136:16 137:2,4
297:8,9,10,11,18,24	suffer (5)	50:16 136:20,22	suspicion (2)	138:24 152:3 169:6
298:5,7,10,16,24	146:11 214:18 215:5	138:25 150:11	246:24 247:3	185:6,13 195:13
299:3,10,20,22	215:10,15	205:7 396:10	suspicions (1)	196:24 198:15
301:9,15 303:8,9,14	sufficient (6)	supposition (2)	246:25	201:4 202:9,15
308:8 309:22	30:17 31:6 145:10	236:10,23	SV40 (3)	systems (1)
310:12 329:17,18	228:14 235:19	sure (74)	332:5,6 334:2	141:10
330:7,18 338:14,16	280:3	28:12 31:25 35:10	swear (1)	
341:7,12 342:15,18	sufficiently (1)	38:19 39:3,11 40:10	11:6	T
342:25 343:4	144:9	41:5,21,25 43:15	Sweden (1)	T (11)
344:18 345:3,25	suggested (3)	48:11 56:11,15,19	346:11	138:4 139:11,25
346:24 347:4,10	47:2 54:16 289:19	60:18 68:3 70:24	Swedish (1)	140:2,4,5,13 240:19
350:10,13 359:22	suggesting (6)	79:17 80:4 89:16	346:11	284:6 402:2,2
359:23 375:24	47:17 75:2,4,6 146:3	92:10 98:7 101:6	sweeping (4)	<b>T-d-a-p</b> (1)
382:19 385:14	300:8	108:14 110:20	246:13 248:4,24	240:18
386:2 390:9,16	suggestion (2)	123:3 141:16 145:2	251:20	table (14)
391:18,25 392:4,15	46:17 47:10	154:16 167:10	swelling (1)	117:23 118:2 174:15
394:8 395:18	suggests (4)	174:23 184:21	312:19	184:24 185:3 186:8
398:19,22,25 399:3	74:23 155:10 256:15	193:3 194:17,20	sworn (2)	186:9 188:9 201:22
399:10,11,14,15	289:12	224:8 234:7 244:22	11:9 403:22	201:24 217:25
study's (1)	sulfate (1)	244:23 250:20,21	symbols (1)	218:18 228:20
304:12	187:5	258:6 260:7,24	234:18	336:3
studying (6)	summary (5)	268:3 281:19 286:2	234.18 symposia (1)	tables (2)
203:25 224:15 264:8	8:7 78:13 217:25	286:12 292:17	<b>symposia</b> (1) 107:14	173:14 202:6
287:19 309:3		312:2 314:15		take (49)
344:23	317:6 336:3	315:18,20 319:4,5	symptomatic (2)	
577.25	sun (1)	515.10,20 519.4,5	98:17 102:9	13:16,21 25:20,22
	I	I	I	1

70.11.70.10.107.10	40.00.50.00.00.14	104.616100.04	160.12.104.17	252.0 12 256 12 22
72:11 79:18 106:19	49:22 53:23 68:14	104:6,16 108:24	168:13 184:17	253:9,12 256:13,23
119:12 131:16	<b>Tdap (27)</b>	122:11 140:24	187:8 241:23	262:7,13,23,25
143:25 148:6,16	209:11,19 211:21	163:22 174:25	274:13 280:4 282:9	263:3,7,12,13,20
157:15 163:3	239:23 240:8,12,18	188:19 198:11	322:4 373:10	267:14 268:22
172:19 174:5,15	240:22 242:4,9,23	200:15 205:13	thanked (1)	270:13,14 283:11
198:5,9 207:20	243:5,7 244:2 245:3	224:21 281:18	216:10	285:2 287:12,13
222:10,17 242:19	246:6,12 247:13	327:25 328:2 331:8	theoretical (2)	291:19 301:16,24
243:24 249:21	248:3,22 249:15	334:16 337:17	328:14 364:15	312:19 317:9
255:20 263:5,5	251:6,16,19 253:20	340:19 371:4	Theoretically (2)	318:12 319:8,21
265:2 275:15 279:7	253:23 255:16	372:12 378:22	258:24 329:25	321:22 324:4
284:10 287:7	teach (4)	383:2 399:16	they'd (2)	326:13 328:15
295:11 296:6	82:10,13,15,18	terrible (1)	300:20 324:20	332:25 333:4,6
297:10 298:4,5,22	teaching (1)	191:16	thing (10)	334:13 335:21
302:15 321:11	23:7	test (2)	87:11 175:17 192:14	337:10 339:17,25
335:5 357:18 369:9	technical (1)	223:11,14	193:10 252:25	340:3 345:15 346:3
380:7 389:8 392:14	232:8	tested (8)	336:5 337:13,16	350:4 351:9,11
396:18 399:6	<b>Technion-Israel</b> (1)	35:7 170:21,24	355:17 387:12	352:7 355:5 361:19
taken (9)	193:6	370:20 371:5,25	things (34)	362:6,14 363:16
2:7 58:10 62:19	Technologies (4)	372:2 374:6	41:10,14 60:3 65:11	364:9,12 371:7,11
108:18 143:7 205:2	85:21 87:20 91:8,9	testified (6)	74:17,21 131:19	372:7 374:6,17,21
295:3,14 402:14	technology (3)	11:11 113:4 148:25	146:15 147:16	376:19 377:5,9,11
takes (1)	55:24 88:9 193:6	157:16 177:17	153:2,11 165:2	378:2 379:25 380:5
119:10	<b>Tel</b> (1)	183:21	175:19 181:2 192:2	380:12 383:5,10,12
talk (5)	192:19	testify (7)	204:19 219:18	384:24 385:9,11,12
171:18 193:25 261:20	Telephone (1)	14:11 15:12,16 113:6	220:24 222:13	385:13 387:9,12
351:25 401:16	3:10	364:25 365:4	237:14 244:12	388:2 390:16,23,25
talked (9)	tell (31)	400:13	245:6 246:19	395:21 396:11,20
15:17 169:9 176:7	11:9 19:8 26:11 32:7	testifying (2)	247:19 252:12	397:2 399:19
193:11 222:14	33:16 42:2 45:4	13:12 168:6	290:16 293:5 319:8	thinks (1)
240:5 261:21 338:3	47:16 55:4 59:23	testimony (10)	321:23 337:19,21	148:9
376:19	63:2 65:10 100:14	12:9,10 14:19 75:25	348:14,15 349:20	third (5)
talking (24)	121:3 126:19	95:16 117:14	think (167)	10:18 48:22 200:4
40:13 57:7 125:8	148:10 158:6	137:17 237:24	14:2,12 21:11 23:5	201:19 317:17
138:11 153:16,18	172:22 174:19	260:22 341:24	26:4 29:13,16 46:18	third-world (1)
167:11 171:7 172:6	193:10 198:10	tetanus (18)	55:19 56:17 59:11	287:22
200:21 214:22,23	209:2 232:4 256:3	28:4 97:5 240:23	59:12,21 60:10,12	Thirteen (2)
220:16 226:13	267:16 268:14	242:13 243:2	60:24 61:5,21 62:3	97:7,9 Thinty (1)
231:21 259:8	271:18,19 275:13	362:11,13 363:19	66:10 68:7 69:2	<b>Thirty (4)</b>
282:11 284:11	279:11 397:18	386:13,15,16,19,20	71:2,3,5,22,25 72:3	94:14 103:20 383:19
292:17 294:15	telling (5)	387:3,11,13,18	74:2,7 80:3,15,21	385:10
354:16,17,21 357:7	164:11,19 171:20	390:10	82:7 83:13,18 84:22	thoroughly (1)
talks (3)	255:22 346:17	tetanus-containing	87:5 90:9 102:6,9	283:14 thought (10)
113:19 160:7 161:15	ten (17)	389:6,12,21,25	103:10,13 105:8	thought (10)
tape (6)	35:5 82:4 98:6 114:19	tetanus/diphtheria	107:19 111:3	59:25 104:18 105:3
95:2,8 148:21 308:11	143:23 196:13	362:3	116:21 122:8 127:7	117:11 126:7
365:9 388:5	269:9 275:6 282:16	text (1)	132:6 160:12 161:9 163:3 164:24	139:23 251:8 271:22 274:9
<b>target (2)</b> 141:12 336:8	362:4 384:25 385:3	194:11 taythaak (2)	163:3 164:24 165:13 180:8	374:14
141:12 550:8 task (21)	389:7,9,18,21,25	<b>textbook (2)</b> 17:23 67:4	189:16 190:20,22	574:14 thousand (8)
4:11 49:3,8,14,22	ten-times-greater (1)			
	285:21 torm (7)	thank (26)	194:17 196:9 203:8 204:15 206:17	39:2 43:4,10 71:4
51:3,5,6,11,13,21 51:22,25 52:12 53:5	term (7)	16:9 33:25 40:3 51:18	209:23 210:23	239:15 258:14,16 315:11
51:22,25 52:12 53:5	40:11,15,18 109:5	70:5 73:4 79:22	209:23 210:23 221:18 223:19,24	thousands (5)
	138:21 280:2 311:3	92:23 93:18 95:5	224:14,22 225:4,19	
347:24	terms (32)	109:8,8 112:18		67:4 131:25 214:7
tax (7)	34:13 35:24,24 98:21	138:13 152:17	226:12,24 235:13 235:13 244:9,14	239:3 249:6
4:10 41:10 49:13,21	101:18 102:2,11,17	160:3 164:20	233.13 244.9,14	three (40)
	I	1	I	1

Page	42
raye	ᅻ᠘

				ruge iz
29:25 30:4,9,13,17	277:11,14,17	top (8)	274:18	23:6,18 24:2,14 25:22
30:19,22 31:6 37:2	282:16 350:23	80:6 152:21 156:12	Translocation (3)	352:3 356:5,8
50:22 80:15 82:4	393:19	156:22 160:7	7:10,13 298:17	trips (15)
83:7 94:17 95:25	tiny (3)	197:15 318:5	transmissibility (1)	20:21,25 21:5,8,16,25
96:6,11,17 111:20	313:6 390:19,24	386:11	102:18	20.21,25 21.5,8,10,25 22:4,7,13,21 23:2
171:15 179:2 182:7	tissue (9)	topic (2)	transmission (4)	24:19,22 107:15
182:19 188:7	8:6 309:22 310:6	306:20 374:24	100:6 164:12 376:16	108:18
197:24 202:6	322:21,24 323:4	total (18)	395:11	trivial (2)
205:25 228:22	324:17 329:23	38:16 41:22 45:5	transmit (5)	181:5 396:21
203.23 228.22 229:16,21 234:16	345:8	58:25 74:3 103:7	102:25 266:6 380:11	<b>Trojan (2)</b>
260:13 261:10	tissues (4)	185:22 198:21	381:10,23	7:9 298:12
276:12 279:17	314:20,20 343:18	199:2,10 206:24	transmitted (1)	trouble (2)
311:21 312:4 343:7	345:17	224:3 256:9 260:2	330:16	172:19 219:17
353:7 359:7	titer (1)	275:16 312:25	transmitting (1)	true (35)
threshold (2)	373:7	398:20,23	382:3	17:12 46:18,20
364:9,15	titered (1)	totally (1)	transverse (4)	100:15 135:2,8
throat (3)	373:17	383:11	152:13 162:4 210:19	157:10 207:6
382:7,9,17	title (10)	tourist (2)	211:6	213:21 218:15
thrombocytopenia (	64:10 69:18 78:4	355:15,17	<b>travel (7)</b>	246:20 247:24
208:12,19 214:24	84:19 217:16	town (1)	295:18,22 296:24	248:4 249:2 269:14
208.12,19 214.24 throw (2)	227:15 230:18	23:12	300:6 301:19	273:8 283:23 315:8
264:5 370:8	273:16 278:22	toxicity (1)	310:23 329:20	328:10,17,23 329:6
tie (1)	391:14	334:19	traveled (1)	329:7 336:7 346:19
130:22	today (28)	toxin (2)	361:19	367:10 375:16
ties (1)	14:11,20 16:10,14	378:4,11	traveling (1)	378:9,9,10 381:3
130:4	20:7 25:12 27:13,16	toxoid (6)	310:14	390:18 392:18
time (71)	32:19 39:24 65:18	240:23,23 242:13,14	<b>Triad (1)</b>	395:7 396:12
12:3,19 22:10 27:2	70:9 73:17,20	240.23,23 242.13,14 243:2,2	192:6	trust (1)
34:21 36:25 37:12	157:12 159:12	TP (1)	trial (31)	207:23
45:2 63:23 68:20	166:17 172:21	285:22	149:8,18 150:11	trusted (1)
79:3 81:13 89:24	207:8 208:3 225:14	trace (2)	151:2 157:20 160:6	106:17
92:9,13 94:20,23	225:16 274:25	310:2 320:7	165:4 166:9,13	truth (3)
95:3 98:9 111:21,21	302:12 321:3	traces (1)	167:2 169:23	11:10 207:21,21
113:7 124:4 128:13	365:13 378:19	319:17	170:15 171:2	truths (1)
134:21 148:18,22	400:11	track (1)	173:21 174:12,18	107:2
153:3 159:23 165:5	today's (1)	65:13	175:13 176:2 181:3	try (12)
204:18,22 206:9,19	401:8	tracked (1)	182:15 183:17	32:10,15 44:24 96:19
206:25 222:12,23	toe (1)	269:25	185:7,12 196:25	113:12 131:20
223:3 230:15	136:22	tract (2)	197:11,12 198:15	180:25 187:21
232:25 233:12	told (10)	381:17,19	205:8 206:11	214:16 259:20
248:13 250:13	67:21 81:9 104:16	trade (6)	364:24 365:4	267:7,25
259:4,14,22 272:5	133:23 176:11	32:14,16 33:2,13 34:7	trials (22)	trying (30)
273:9 283:8 286:14	181:13 231:5	36:3	142:14,17 147:18	23:2,21 56:16 61:19
298:5 300:2 308:13	272:16 286:8 352:7	train (2)	149:23 158:6,8,22	72:16 89:17 90:10
308:17 311:12	Tom (2)	25:20,23	165:3,24 168:9	91:10 93:15,19
347:6 349:5 353:10	3:15 10:15	trait (1)	169:19 172:2,11,22	96:22 102:22
360:11 361:16,18	Tomljenovic (2)	330:22	174:7 175:5 177:22	128:23 164:21,23
362:2 364:10 370:2	191:14 307:22	Trans-Signaling (1)	178:8,9,13,20	171:18 174:10,11
371:15,17 374:13	tomorrow (2)	303:10	238:24	187:17,22 205:11
383:8 384:13	320:14 400:16	transcribed (1)	tried (3)	253:10,11 262:3
393:24 401:6	tomorrow's (1)	132:17	43:21 281:3 319:22	271:2 274:21 291:8
times (22)	321:5	transcript (2)	tries (1)	309:10 339:2
21:7,9,21,23 143:23	tone (1)	401:8 402:16	144:24	342:13
183:3 204:21	65:15	translatable (1)	trillion (1)	<b>TSG</b> (2)
267:24 276:2,6,12	Tongue (1)	224:13	329:5	10:17,20
276:22 277:2,4,6,9	344:15	Translational (1)	trip (8)	turn (19)
		(1)		

r				- 5 -
49:23 151:11 158:5	129:21 131:2	145:6	unvaccinated (27)	
167:20,23 173:7	142:21 143:11	unfortunately (6)	6:9 143:23 256:11,16	V
178:15,19 184:24	165:15 287:24	78:23 198:2 238:9	257:4,10 258:2,5,8	V (2)
190:17 197:22	378:14	307:21 320:8	258:18,22 259:3	90:20 335:8
201:13 202:4	Uh-huh (1)	384:12	260:2 262:9 266:5	<b>V-R-B-P-A-C</b> (1)
201:13 202:4 203:16 242:7	159:5	unimmunized (1)	266:25 272:3	112:25
203.10 242.7 275:20 299:10	Umm (2)	141:17	273:18 275:17,25	V6.407 (1)
335:8 343:4	134:22 177:13	unimportant (1)	276:6,12 278:25	265:11
turned (1)	unabated (1)	122:4	282:24,25 359:21	vaccinate (10)
47:11	315:5	unintentional (1)	398:24	16:23 191:24 257:7
Twenty (3)	unable (3)	333:20	update (2)	281:21 354:11,23
104:22 384:23 385:25	215:3 267:2 395:12	United (22)	80:2 85:6	355:6,8 356:3,6
twice (4)	unbearable (2)	21:6,19 22:4 24:19	updated (3)	vaccinated (54)
21:11 145:9 275:25	260:15 261:12	124:2,19 126:4	80:3,9,24	6:9 99:21 100:7,20
377:16	uncertain (4)	165:12 169:15	uploading (1)	101:21 102:22
two (62)	156:16 209:18 210:15	171:10 184:20	302:15	136:21 144:19
29:9 30:4 31:2,4,6,6	224:13	268:25 269:9	upper (1)	153:4 164:9,12
62:4 80:15 82:3	uncommon (5)	273:18 287:20,23	121:22	166:12 167:13
83:5,5,7,22 94:5,9	98:18 158:21 239:8,9	377:9 380:15,18,21	upset (2)	171:13 177:18
95:18 96:11,17	347:7	380:25 381:5	174:10 397:17	197:14 213:20
106:20 111:20	unconvincing (1)	universal (11)	Urban (1)	223:16 225:11,13
131:19 149:2 164:6	212:14	123:19 124:25 126:16	6:16	226:17 256:16
182:19 186:9	understand (43)	127:4,21 128:11,14	urticaria (1)	257:4,22,23 258:2
188:10 195:4	13:19 14:23 26:10	128:19 129:2,4,20	151:18	258:22 259:3,25
197:24 199:16	28:13 39:20 40:11	universities (8)	USA (1)	262:8 265:18,19
201:24 205:17	40:14 41:5 63:16	82:3 85:13 191:4,10	373:12	266:25 272:3 273:18 275:17
219:14,20 220:24	97:10 108:23	192:25 193:17,22	use (34)	276:22,25 278:25
229:16 230:10	130:11 140:20,23	384:14	40:18 107:3 109:5	280:8,10 282:24,25
232:3 240:5 243:11	141:7 154:12	university (24)	123:19 124:25	286:13 356:9
244:7 263:6 271:12	160:21 164:22,23	7:22 23:14 75:17	126:16 127:4,22	359:21 362:16
279:11,16 284:16	171:22,24 174:4,9	76:11 82:9,17,18	128:11,14,19 129:2	379:8,10 380:10
329:3 340:15,16,18	180:24 182:12	192:22,24 193:2,3	129:4,20 144:12	381:22 383:20
341:16 342:5,10	187:21 194:11	232:23 273:24	156:14 187:16	387:10 398:23
351:8 356:21	205:9,12 244:9	274:22 278:20	188:19 204:6 252:3	vaccinating (4)
360:24 365:24	252:20 255:5,6	292:20,25 298:13	255:13 297:25	262:3 283:9,10
366:22 367:7,8	261:24 262:3,6	298:14 303:23	303:4 323:21	357:10
384:10,11 400:5	270:25 271:3	305:11 306:2 368:2	341:15 342:16	vaccination (84)
two-minute (2)	275:14 281:20	368:20	344:24 345:16	6:12 8:16 15:10 17:3
148:16 222:17	344:17 358:9,17	unknown (3)	346:15 366:4 373:7	18:19 24:4 71:18
type (10)	understanding (11)	122:5,20 141:14	378:22 380:21	98:22,23 101:23
8:16 33:24 116:9	27:5,9 47:15 54:10	unprovable (1)	394:15	102:20 126:13
143:6 224:7,20	71:16 168:2 176:9	358:5	useful (5)	136:16,18 137:2
332:23,25 333:18	236:24 258:17	unrelated (1)	224:23 225:4 226:24	139:4 140:24
372:23	301:11 358:24	184:12	283:15 327:9	144:10 147:3
types (1)	understands (1)	unreliable (1)	useless (1)	151:19 152:25
266:13	141:2	254:4	226:13	156:2,25 168:17
typically (7)	understood (2)	unsolicited (2)	uses (1)	180:13 182:19
120:7 138:7 203:13	177:9 293:6	147:20,23	380:18	183:21 189:10
206:15 239:4 315:6	undoubtedly (1)	unsupported (1)	ussis (1)	191:19 210:2
328:11	162:15	307:18	6:15	230:16 235:23
	unequivocal (2)	untrustworthy (1)	usually (8)	237:15 256:10,22
	246:13 248:24	307:23	18:6 30:17 34:21	260:9 261:4 265:14
U-R-U-N-D-I (1)	unethical (5)	Untruths (3)	62:17 246:22	278:23 279:15,24
351:2	157:11 162:21,23	8:14 367:19 369:24	264:17 266:12	279:25 280:6
U.S (10)	300:19,20	unusual (3)	293:23	285:15 298:2
6:10 21:24 62:5	unexposed (1)	160:16 210:13 347:13		311:12,17,19
	I	I	I	I

				_
212 20 22 220 22	150 02 150 05	246 25 247 4 10	112 21 22 22 114 2	242 2 0 11 14 17 20
312:20,22 330:22	150:23 152:25	346:25 347:4,10	113:21,23,23 114:3	342:2,8,11,14,17,20
345:7 354:8 355:12	153:9,12 154:19,23	348:17 350:10,13	115:2,24 117:7	342:23 344:25
356:12,23,25 357:5	155:19 156:15,19	357:8,16 359:9,24	118:13 124:3,7,8,18	345:9,10,14 358:15
357:12,20 358:7,24	157:3,7,9,16,20	360:12,13,19,25	124:19,21 125:11	359:13,18,25 360:5
363:11,16 372:6,8	161:16 162:13,20	361:3,5,7,10,12,15	126:8 130:8 132:6	360:7 361:17 362:7
372:23 375:12	162:22 163:12	361:21,23 362:3,11	138:10 139:7 141:4	364:10,18 375:3,8
378:15,24 379:23	165:8,11,22,25	363:3,9,18,25 364:6	141:23 142:3,8,10	379:3,16 381:9
383:3,9 384:7,8,21	166:7,16 167:16	365:14,20,24 366:3	142:13,24 143:12	389:6 392:24 393:9
385:4,23 386:4	168:7,21 169:9,20	367:3 371:3,14	143:14,21 144:12	393:20 397:13
387:20 390:20	169:23,24 171:7,11	372:4,5 373:7,16	146:8,17,20 147:19	vaccinology (3)
398:12,14,17	171:23 173:17	375:18 376:16	148:7 149:2 153:22	23:8 25:8 168:11
vaccinations (4)	174:2 175:3,16	378:3,13 379:13,19	154:25 159:19,21	<b>VAERS (19)</b>
191:25 215:6 249:11	176:21,22 177:22	380:19,22 381:5	164:6,24 165:14	8:22,23 9:4 151:14
260:5	179:8,25 180:4,9,12	384:6,25 385:3,7,22	169:14 173:12	254:4 389:5 390:18
vaccine (418)	180:14 181:7,9	386:10,13,16,19	179:16 180:7 190:6	390:23,24 392:2
4:21 5:6,13,23 6:15	182:16,18,24 183:7	387:18 388:12,17	191:16 192:4 194:3	394:25 395:20,25
6:24 8:7 12:18,19	183:13 184:8,10,21	389:13,21,25	194:6,10 203:13	396:3,6,10,13
19:15,17 24:15,18	187:18,19 188:15	390:10 391:9,15	204:20,25 207:10	397:12 399:4
24:25 28:14 29:19	188:15,17,25	392:10 393:3,18,23	204.20,25 207.10	
				<b>vague (4)</b>
29:21,22 30:21	190:13 192:6	393:24 394:4,5	212:21 213:18,22	14:7 103:18 211:13
31:17,21,24 32:12	194:19 201:12	396:19 399:7,16	215:24,24 217:18	311:3
32:13,17 33:15 34:6	205:14,16 206:7,24	vaccine-preventabl	221:9,24,24 222:3	vaguely (2)
35:25 36:5,13,14,21	208:18 210:5,8	262:2	223:14 224:15,22	105:12 303:17
37:3,8,13,14,16	211:4,16,24 212:8	vaccine-related (1)	225:8,15,18 226:11	valid (5)
38:7 44:18 55:16	212:11,15 214:7	55:24	227:17,22 230:19	145:7 175:12 267:23
56:24 57:7,17,20,21	215:19 216:13	vaccinee (4)	233:17,25 234:12	357:16 399:2
58:5,7,18,19 59:3	218:22 219:11	147:22 316:8 330:21	235:24 237:9,24	valuable (1)
59:15,20 61:24	220:5,10,17,25	382:3	238:15,23 239:24	359:19
63:24 72:16 76:21	221:14,19 222:7,8	vaccinees (3)	240:22 241:3	value (3)
77:5,18 78:22,24	224:19 226:3 227:2	179:3 329:16 331:5	242:13 243:18,19	198:10 374:7,8
79:5,9 82:16 85:24	230:14 231:7 233:2	vaccines (319)	246:14 247:9,12	values (1)
88:6,10 89:15 90:11	243:3 245:10 246:2	4:9 5:20,22 6:4,19,21	248:5,7,16,24 249:8	310:5
91:22 93:16,20,25	250:20,23 252:5,8	15:9 17:5,11,13	249:16 250:5,16,17	Vanderbilt (4)
94:3 96:5,23,25	258:10,20 259:21	19:5 22:16 23:21	251:20 252:11,23	290:25 291:2,14
97:3,6,12,19,24,25	262:22 266:21,22	24:10 26:18 27:2,6	253:2,6,12,19 255:8	293:8
99:12 100:2,5,8	285:13 286:18	27:8,11,18,20,25	255:18 256:24	variable (2)
101:22 103:8 104:7	287:18,19,20 288:2	28:9 29:10 31:10,14	263:10 274:23	313:3 325:17
104:10,19 105:2	288:11 289:21	32:4,9 33:2 34:22	282:15 284:14,20	variance (1)
107:20,24 108:11	290:21 291:9,9,11	35:6,12 36:24 37:7	285:23 287:23	215:9
113:8,13,18,25	291:18 294:3	45:7,10 46:15,21	288:23 289:13,24	variant (1)
114:4,6,21 115:4,5	296:11 307:10	47:8,12 48:16 49:2	293:2,16,25 297:23	215:5
115:13 116:3 117:5	311:10 312:15	49:10,11 50:6,9	304:19,20,22	Variation (1)
117:15,20 118:5,9	313:5 314:6,10,12	51:2,5,9,14 52:15	306:14 307:8,18	86:14
123:9,18,19,24	314:16 315:13,23	53:18 54:2,12,21	311:8,22 312:5,9,21	
124:12,14,15,24	316:2,6,7,10 317:6	55:11,21 56:7 58:9	313:2,13,17,20,21	variations (1)
124.12,14,15,24 125:4,6,17,19 126:7	317:22,23 318:13	58:16,21 62:4 65:19	314:4 315:4 316:2	289:16
126:24 127:3,21,24	318:14 319:2 320:5	-	316:18,22 317:11	varicella (11)
		66:3,3,6,8,8,11,14		29:18 31:3 36:10,12
128:3,6,11,14,16,19	322:13 323:21,25	66:20 67:4,5 71:21 72:16 74:4 10 11 12	318:10,16 319:13	57:5,7,11,19 58:3
128:23,25 129:3,6	324:7,11 325:2	72:16 74:4,10,11,13	319:14,18,20,24	318:14 322:17
129:11,13,20 135:2	326:2,12 327:4	76:19 83:2,3 85:20	322:13 323:25	variety (5)
136:13 140:16	328:23 329:8	85:23,25 86:5,13,16	325:2 326:3,3,7,24	139:12 140:6,9
142:6,7,8,18,20	330:16 331:9,16	88:18 89:8,18 90:6	327:3 328:6,10,15	304:18 378:25
143:6,19 144:8,20	332:4,11,14,18	90:25 91:11 93:6,22	330:11 331:18,21	various (8)
144:21,23 145:2	333:2,8,11,14,15,25	96:17 100:10,12,18	332:3,20 334:21	24:11 85:13 108:19
146:4,9,11 147:3	334:11,25 335:7,25	103:16 104:11	335:15,17 340:13	123:20 222:13
148:13 149:8	336:2 345:14	108:3,6 112:23	340:17,19 341:16	266:21 293:16

			-	
317:11	violation (1)	125:21 127:16 128:18	198:11 286:9	websites (2)
VARIVAX (2)	158:14	128:22,24 130:3	342:15 347:20	18:7 19:13
57:8 328:23	virtually (1)	VRBPAC (5)	Watch (1)	week (4)
vary (1)	106:13	112:21,21,21,23	130:17	83:4,5 261:18 354:3
313:3	virus (31)	114:8	watched (1)	weeks (4)
vasculitis (1)	4:18 8:11,17 24:5	vs (1)	136:2	182:19 353:5,7
152:4	63:24 78:6 118:24	1:7	way (31)	360:14
vast (2)	118:25 119:25	VSD (2)	33:22 44:25 58:4	weigh (1)
143:12 337:21	120:10 142:4	258:18 399:22	99:23 108:23	247:18
Vax (1)	167:16 317:20	238.18 399.22	125:23 129:7,9	weight (1)
44:20	326:6 331:19 332:7	W	147:7 162:2 179:7	207:14
Vaxconsult (6)	332:8,13,15,17,19	W(1)	179:11 203:17	welcome (1)
41:7,15,20,23 44:21	332:21 333:14,23	3:6	207:15 209:12	223:25
44:22	348:10 366:2	wait (8)	214:16 216:9,19	well-known (2)
VaxTruth (3)	372:24 373:16,18	13:24 134:23 135:14	217:22 218:21	191:14 243:11
18:18 19:3,10	381:20,23	250:8 255:16,19,19	224:14 230:24	went (2)
	viruses (6)	274:6	234:17 236:8	
<b>VBI (1)</b> 86:13	119:14 326:7 332:2,2		237:11,20 247:16	31:10 80:11
	332:10 333:13	wall (1)	264:16 278:21	weren't (6)
vein (1)		118:17 Walled (1)	280:18 327:19	154:16 175:12 225:12 237:25 282:20
254:7	<b>vis-a-vis</b> (1) 298:2	Walled (1) 3:7	ways (4)	
verified (1)			140:9 144:3 251:23	335:6
367:15	visit (5)	wanes (1)		West (1)
vero (2)	23:20 350:20 351:4	377:13	259:2	3:6
314:16 315:9	351:13 352:6	want (36)	we'll (16)	whatsoever (2)
version (1)	visited (3)	13:24 39:23 53:17	29:4 34:16 66:25	243:12 253:8
206:5	352:7 355:3 356:16	55:6 60:7 85:11	71:10 171:17	When's (1)
versus (14)	visiting (2)	94:19 99:10 125:22	183:11 187:9	268:24
10:10 143:20 185:19	354:15 355:14	129:11 135:13	205:14 222:9,14	who've (1)
196:25 207:23	visits (1)	164:21 171:24	318:7,9 321:15,25	223:22
223:23 224:25	389:20	172:19 174:4 188:6	349:10 374:24	whole-cell (7)
258:22 266:25	Visual (1)	213:2 222:15	we're (15)	100:12 142:22 143:11
282:15,24 284:14	305:13	250:19 253:5	34:15 94:22 121:25	144:12 287:19
285:23 359:21	Vitae (1)	256:18 292:17	171:7 202:14	288:2,11
video (26)	79:19	316:7 322:5 327:21	207:15 220:16	wholly (1)
10:6,16 11:5,20 88:12	Vivo (1)	328:14 335:19	292:17 300:2	307:18
94:14,21,25 130:17	6:23	337:16 344:17	309:10 320:10,10	whooping (2)
134:9 135:20,21	vocalize (1)	364:19 365:10	320:11 365:9 388:7	276:11,13
148:17,20 222:18	13:24	379:23 386:14	we've (10)	WI-1 (1)
222:21,25 305:19	voices (23)	387:13 399:13,21	20:6 44:18 129:20	375:2
308:11,15 365:3,6	4:9 15:9 46:14,21	wanted (3)	176:7 215:16	WI-38 (15)
388:4 397:4 400:5	47:7 48:16 49:2,10	194:17,20 394:25	238:24 243:16	4:18 8:11 78:7 324:2
401:3	49:11 50:6,9 51:2,4	wants (2)	248:20 267:9 388:2	324:8,12,14 328:24
video-recorded (1)	51:8,14 52:15 53:18	27:6 401:14	weak (1)	335:7,11,20,22
10:7	54:2,12,14,20 55:11	Warfel (4)	294:2	339:12,20 348:11
videographer (3)	56:7	375:24 376:9,10	weakened (1)	widely (1)
3:15 94:20 130:20	Vol (1)	382:19	331:18	211:4
videos (1)	8:13	warranted (1)	weakness (1)	wife (11)
135:17	voluntarily (1)	155:11	152:18	38:21,22 41:16 43:11
Videotape (1)	156:16	Washington (6)	web (10)	59:6 60:2,10 65:16
2:6	vote (2)	22:8,9 24:25 25:3,4	18:5,6 47:5 72:10	261:21 370:13
<b>VIDEOTAPED</b> (1)	127:18 129:19	25:20	131:24 135:24	397:17
1:10	voted (3)	wasn't (14)	251:3 252:13 272:5	wild (2)
view (7)	123:15 128:10,13	47:9 60:13 92:4 93:11	359:17	268:25 380:15
41:10 243:15 253:6	votes (2)	125:14 128:3	website (7)	willing (19)
307:23 329:16,17	123:17 124:11	162:12 164:17	19:3,4,9 48:16,18	13:6 15:16,22 17:20
329:19	voting (6)	179:12 182:21	134:14 307:17	85:5 159:9 171:6
L				

<b></b>				3
172.2 005.00 04	57.15 22 60.5 67.5		15.6 79.10 90.2	260.12 10 22 25
173:3 225:22,24	57:15,23 60:5 67:5 74:9,20 77:5 103:2	<b>wrap (1)</b> 307:15	45:6 78:10 80:3	360:13,19,22,25
226:4,8,20,21 252:4	,		81:6 82:21 87:5,10	0
252:7 256:3 358:19 362:13	111:23 144:3 207:17 285:2 290:2	write (2)	103:17 126:17	$\frac{0}{0(2)}$
wire (1)	207:17 283:2 290:2 291:20 292:12	266:8 349:18 writing (2)	145:21,22,25	
45:14		306:13 349:6	172:22 196:13 240:3 262:21	200:6 201:8
	340:13,14,15,16 341:25 342:3,4,8,9		263:10 269:2	1
wise (1) 387:12	342:13,21 399:10	<b>written (3)</b> 191:15 309:2 367:8	203.10 209.2 273:10 360:15,17	$\frac{1}{1(15)}$
wish (6)	worked (10)		389:16 390:5	4:9 8:16 40:6 41:2
24:21 31:25 74:16	56:23 84:7,9 109:16	wrong (8) 26:25 52:22 285:3	years (76)	47:23 48:8 122:3
132:5 172:16 375:2	110:14 111:14	311:4 335:23	12:3,25 37:23 39:6,12	329:5 372:23 392:9
Wistar (29)	127:25 340:18	359:11,15 360:3	39:21 41:25 56:17	392:10 395:19
61:2,4,5,11,17,17	344:20 346:10	wrote (5)	61:21 69:3 82:24	396:8,17 398:7
62:8,19 68:16,21,25	worker (1)	208:6 290:7 349:16	87:15 94:5,6,8,9	<b>1-1 (1)</b>
69:7,19 70:9,19	380:10	349:20 367:6	95:18,19 96:8,11,13	218:18
75:18 76:13,22	workers (1)	549.20 507.0	96:17 97:11,20 98:2	<b>1,252 (1)</b>
77:13,14 82:10,17	102:21	X	98:6 108:19 114:19	151:7
341:7,10 371:16,18	working (26)	$\overline{\mathbf{X}(1)}$	116:19 117:8	<b>1,256</b> (1)
372:11 373:11	42:18 57:22 58:11	<b>A</b> ( <b>1</b> ) 147:22	138:25 145:20	389:23
374:25	75:16 76:10 85:22	171.22	146:22 166:3	1,455 (2)
withdrawn (3)	96:24 111:15,17,20	Y	169:25 174:3 182:7	1,455 (2) 179:4 180:18
142:20,24 169:10	111:23 132:8,11,12	<u> </u>	185:4 189:16 196:8	<b>1.4 (2)</b>
withholding (1)	132:13,15,20 133:2	147:22	196:13 204:3 205:2	392:23 393:13
243:19	136:4,8 143:8 147:2	yeah (70)	205:25 206:3 269:3	10 (4)
witness (24)	233:2,4 283:20	18:17 25:19 35:3	269:9 272:4 286:25	4:23 149:14 203:16
4:3 11:6 12:23 18:17	300:13	37:11 38:24 40:23	286:25 287:4	394:4
25:6 52:8 85:18	works (5)	50:24 52:8 57:9	294:10,17,22 362:4	10:32 (1)
96:5 173:13 185:2	54:20 141:7 147:7	81:5 83:14 92:24	368:9 383:9,17,19	94:23
190:19 245:18	251:23 306:15	99:2 105:21 113:2	383:24,25 384:21	10:42 (1)
248:16 249:18	world (14)	118:12 121:6	384:23,25 385:3,8	95:4
274:2 309:12	66:4,14,15,19 108:19	122:10 126:21	385:10,22,25 386:2	10166 (1)
321:17 335:9	112:17 143:13	129:18 133:10	386:9 389:7,9,18,21	3:4
351:22 400:18,23	144:6 166:3 191:6	139:25 157:5 163:7	389:25	1038 (1)
401:10,17,20	193:22 284:23	179:22 184:9	yeast (1)	3:6
witnessed (2)	286:24 371:9	186:25 190:12	319:25	11 (12)
363:8,10	world's (1)	195:24 197:20	Yehuda (2)	1:11 2:3 4:5 5:4 8:13
women (12)	109:18	199:4,21 200:3,7,17	189:15 190:21	8:21 10:15 82:4
12:11,12 185:3,11	worldwide (1)	201:11,16 211:20	yellow (1)	97:7 158:2 162:25
195:11 196:7,13	70:10	217:4,4 224:12	111:21	206:3
210:17 220:17	worse (4)	225:24 226:5 227:5	yep (3)	11:50 (1)
221:2 240:20	17:6,12 192:2 193:13	228:8 269:5,13,19	70:4 274:12 308:11	148:18
363:15	worth (3)	287:9 294:12	York (4)	12 (6)
wonderful (2)	129:10 136:12 221:18	303:17,19 305:14	2:8 3:4 10:14,18	5:6 82:5 163:12
222:9 331:15	wouldn't (25)	313:10 317:19	young (2)	167:15,24 343:4
word (6)	101:15,17,17 129:2	319:7 321:13 322:8	6:15 99:12	12-month (1)
19:7,7 132:24 174:5	200:8 202:19	323:10 328:22		163:8
336:20 352:4	223:12,17 231:9	334:9 345:11	Z	12-year-old (3)
wording (1)	251:3 257:14	352:14 366:6	Z (1)	6:10 273:18 278:24
154:8	265:16 267:6 269:6	368:24 371:10	147:22	12/1/07 (1)
words (10)	272:20 273:5	378:21 388:2 390:3	Z-O-S-T-E-R (1)	8:24
78:24 99:19 135:22	277:20 295:19	392:17	360:22	12/15/15 (1)
146:10 191:21,24	300:20 347:14	year (37)	zealots (1)	4:15
266:3 268:18	362:21 377:2 395:5	12:7 20:22 21:4,10	357:21	12:37 (1)
311:11 326:3	396:18,22	22:6 29:10 30:24	zero (3)	148:23
work (30)	Wow (1)	34:19,25 38:11	198:11 328:16 329:16	125 (1)
46:11 51:8 52:15	134:16	42:17,24 43:20 44:9	zoster (4)	390:4
		l		l

<b>[</b>				
13 (6)	176/14 (1)	1997-2009 (1)	84:6 297:11 392:20	26 (5)
5:8 82:5 97:8 170:5	9:11	84:3	<b>2011 (7)</b>	6:14 195:12 196:8
348:15,16	9.11 <b>178</b> (1)	<sup>04.5</sup> <b>1998 (3)</b>	153:16,21 227:7	276:5 282:8
<b>13,000 (2)</b>	5:9	126:19,22 130:5	230:13 231:20	<b>2</b> /0.3 282.8 <b>264 (1)</b>
160:6,7	18 (3)	120.19,22 130.3	230:13 231:20 233:7 241:2	6:6
<b>131 (1)</b>	5:17 163:13 203:2	2	<b>2013 (2)</b>	0.0 26AL (1)
4:21	<b>18-month (1)</b>	$\frac{2}{2(11)}$	298:16 299:19	6:24
<sup>4.21</sup> 135 (2)	163:9	4:10 49:13,21 95:2	<b>298.10 299.19</b> <b>2014 (2)</b>	0.24 27 (2)
235:18,22	<b>18:43</b> (1)	188:10 197:13,21	375:16 376:11	6:18 288:17
135522 (1)	401:6	333:4,5,18 373:6	<b>2015 (4)</b>	0.18 288.17 27/3 (7)
1:25	401.0 182 (1)	<b>2-phen (1)</b>	6:6 265:3 298:24	4:18 8:10 78:6,24
1.25 14 (6)	64:13	<b>2-piteli (1)</b> 334:6	299:20	324:11 348:10,17
5:9 167:24 168:15	184 (1)	2-phenoxyethanol (3)	2015-831539-DM (1)	273 (1)
178:4 228:15	5:11	<b>2-phenoxyethanol</b> (5) 334:8,10,19	1:7	6:8
234:11	<b>189</b> (1)	<b>2,219 (1)</b>	2016 (4)	0.8 278 (1)
14.5 (1)	5:13	203:22	103:8 376:11 397:13	6:11
280:9	<b>19 (3)</b>	<b>205.22</b> <b>2.3 (12)</b>	398:3	0.11 28 (2)
14:23 (1)	5:19 172:25 217:16	185:10,11 195:11	<b>2017 (8)</b>	6:21 289:7
222:23	<b>1920s (1)</b>	196:6,12 198:17	4:17 45:6 72:11 80:8	0.21 289:7 282 (1)
14:33 (1)	367:16	199:6,19,20,23,24	80:13 81:2,15	<b>6</b> :14
223:4	<b>1940s (1)</b>	201:2	362:21	0.14 288 (1)
145/15 (1)	386:17	<b>2.315 (1)</b>	<b>2018 (7)</b>	6:18
9:10	<b>1950s (2)</b>	11:21	1:11 2:3 10:15 22:22	<b>289 (2)</b>
9.10 <b>149 (1)</b>	109:14 331:21	<b>2.4</b> (2)	24:20 402:25	6:21 8:13
4:23	109:14 331:21 <b>1959 (5</b> )	200:2 277:17	403:23	0.21 8.15 <b>29 (3)</b>
4.23 <b>15 (4)</b>	351:5 370:19,21	<b>2.5 (3)</b>	<b>202</b> (1)	6:23 185:4 296:6
4:22 5:11 183:25	371:5,15	2.5 (5) 200:2,3,4	5:17	0.25 185.4 290.0 <b>296 (1)</b>
4.22 5.11 185.25	<b>1960 (4)</b>	<b>2.6</b> (1)	<b>20th (1)</b>	6:23
<b>150 (1)</b>	370:24 371:15 372:19	393:14	323:20	0.25 <b>297</b> (1)
328:18	374:5	<b>2.7</b> (1)	21 (2)	7:4
155 (1)	1960s (7)	280:2	5:23 231:16	299 (3)
299:22	12:8 111:7 172:24,25	<b>2.9</b> (1)	<b>215</b> (1)	7:7,10,12
155/13 (1)	347:7,13 349:2	2.9 (1) 277:9	328:20	7.7,10,12
9:10	<b>1969 (1)</b>	<b>2</b> /7.9 <b>20</b> (14)	<b>217 (1)</b>	3
<sup>9.10</sup> 157 (1)	78:11	5:21 25:24 104:9,20	5:19	$\frac{3}{3(8)}$
5:4	<b>197</b> (1)	105:5,11 227:15	<b>218</b> (1)	4:11 52:5,19 148:21
<sup>3.4</sup> 158 (3)	5:15	262:25 269:3 287:4	198:16	222:21 234:15
230:15 234:11 235:18	<b>1970</b> (1)	385:8,22 386:2,9	22 (3)	335:8 397:20
<b>159/16 (1)</b>	77:9	20-year (1)	6:4 215:23 241:19	<b>3-1</b> (1)
9:11	<b>1978</b> (1)	385:16	<b>227</b> (1)	289:20
16 (2)	81:24	20-year-olds (3)	5:21	<b>3,258</b> (1)
5:13 189:25	<b>1979 (2)</b>	226:16,16,20	23 (2)	151:6
<b>16:33</b> (1)	269:4 380:16	200 (2)	6:6 264:14	<b>3.4</b> (4)
308:13	<b>1986 (3)</b>	3:4 81:20	<b>23,981</b> (1)	179:4 181:22 182:2,6
<b>16:43</b> (1)	114:22 118:9 125:8	<b>200,000</b> (1)	389:19	<b>3.675</b> (1)
308:18	<b>114</b> .22 118.9 125.8 <b>1990 (3)</b>	45:12	<b>231</b> (1)	307:12
<b>167 (1)</b>	38:11 75:10 76:19	<b>2000 (6)</b>	5:23	<b>3.7</b> (1)
5:6	<b>1990s (6)</b>	4:22 8:21 43:21	5.25 24 (7)	277:14
<b>16th (1)</b>	37:25 74:8 75:8	171:12 227:6,9	6:8 171:15 260:14	<b>3.9</b> (1)
402:25	126:18 287:2,3	2000s (3)	261:10 273:16	277:2
402.23 17 (3)	<b>120.18 287.2,5</b> <b>1991 (3)</b>	42:19 43:2 83:18	282:7 288:17	<b>3:00 (1)</b>
5:15 197:10 219:4	83:22 215:18 217:20	42.19 45.2 85.18 2006 (1)	<b>241 (1)</b>	244:11
17/25 (1)	<b>1994 (3)</b>	392:20	<b>6</b> :4	<b>30 (21)</b>
9:10	226:25 227:10 288:18	<b>2008 (2)</b>	0.4 25 (5)	7:4 97:22 98:2 103:19
9.10 170 (1)	<b>1997 (1)</b>	64:19 65:4	6:11 126:19,22 269:3	105:4 108:19
5:8	83:23	<b>2009 (3)</b>	278:15	178:16,25 180:21
5.0	05.25		270.15	170.10,23 100.21
	•	•	•	

<b></b>				)
182:3 272:4 276:22	39/19 (1)	5,000 (2)	6/24/17 (1)	79 (1)
286:25 297:9,13	9:10	186:15,15	7:21	4:20
364:18 383:9,17,24				4.20 <b>794</b> (2)
384:20 385:16	<b>391 (1)</b> 8:23	<b>5.2</b> (1)	<b>6:42 (1)</b> 401:18	
		277:11		81:3,20
<b>30-day (3)</b>	<b>397</b> (1)	5.4 (1)	<b>60</b> (4)	8
178:21 181:22 206:15	9:4	280:8	124:23 205:2 377:12	
301 (1)	4	5:00 (2)	377:20	8 (13)
7:16		320:9 321:4	<b>60/14</b> (1)	4:20 79:14,16 177:9
<b>302</b> (1)	4(8)	5:30 (1)	9:11	178:15,19 180:23
7:19	4:13 64:9,17 186:8	321:16	600 (5)	184:24 186:21
305 (1)	188:12 201:13	50 (16)	173:14 186:16,18,22	195:4,21 199:12
7:21	202:11 223:2	63:16,17 97:23 98:2	198:21	202:14
308 (2)	4.2 (2)	169:25 174:3 179:3	60s (2)	8:30 (1)
7:24 8:4	277:4,6	180:2,20 205:2	13:2 133:9	2:3
309 (1)	4.6 (1)	286:25 313:4	64 (1)	80 (7)
8:5	196:13	322:25 323:13,14	4:13	52:21 203:23 226:19
31 (1)	40 (7)	377:11	6480 (1)	334:25 384:9,19,20
7:7	8:7 286:25 317:4	500 (2)	3:11	80-year-olds (1)
317 (1)	332:7 335:5 336:14	328:11 329:12	66/25 (1)	226:10
8:7	337:8	500,000 (1)	9:11	8800 (2)
32 (2)	40th (1)	39:5	666 (1)	199:10,16
7:10 299:4	332:8	50s (1)	280:17	
320 (1)	41 (2)	166:12	<b>69</b> (1)	9
201:21	8:8 340:24	52 (1)	4:15	9 (2)
33 (2)	42 (2)	4:11		4:21 131:15
7:12 299:21	8:10 348:3	54 (3)	7	9,412 (2)
34 (2)	43 (2)	227:20 228:14 229:20	7 (6)	185:21 199:6
7:16 301:10	8:12 349:15	5833 (1)	4:18 77:20,25 177:9	9/30/10 (1)
340 (1)	44 (4)	10:14	347:22,24	8:24
8:8	8:14 366:16 367:10	5883 (1)	7,000 (1)	90 (1)
348 (1)	367:19	2:7	180:14	384:10
8:10	45 (6)	<b>592</b> (1)	70 (4)	900,412 (1)
349 (1)	8:18 366:18 367:10	173:14	191:5 193:21 384:19	198:25
8:12	367:22,23 392:23	594 (4)	384:20	90s (1)
35 (3)	46 (3)	186:13,18 199:6	70s (2)	121:23
7:19 302:9,14	8:22 389:4 396:16	201:10	77:9,10	94 (1)
35,000 (1)	47 (2)	596 (2)	71/10 (1)	227:4
394:24	8:23 391:7	197:15,21	9:12	98,000 (1)
35,570 (2)	48 (6)		715 (1)	396:18
393:5,9	4:9 9:4 167:4,6,9	6	392:20	98.5 (1)
36 (3)	397:8	6 (10)	715,000 (1)	389:15
7:21 305:8,16	48346 (1)	4:16 6:9 72:9,24	392:20	985 (1)
366 (2)	3:12	170:14 176:18	72 (1)	389:9
8:14,18	48390 (1)	177:9 273:18	4:16	99 (2)
37 (2)	3:7	278:24 392:6	74 (1)	122:2,9
7:24 308:21	49 (1)	6.1 (9)	342:25	<b>99.9</b> (1)
376,000 (2)	4:10	149:19,22 150:9	747 (1)	121:5
393:2,8	4C (2)	158:5 167:22 178:7	10:18	<b>99.99</b> (1)
376,452 (1)	49:24 50:8	203:17,17,20	75,000 (1)	122:7
392:24		6.2 (10)	398:7	990 (3)
38 (4)	5	151:11 156:11,13,22	751 (1)	4:10 49:13,22
8:4 229:21,22 308:21	5 (11)	161:14 162:19	397:24	
<b>388</b> (1)	4:15 69:13 70:2,3	207:12 311:24	76 (2)	
8:22	202:4,11 275:20	312:7,12	345:3,24	
39 (2)	299:10 308:16	6/15/17 (2)	77 (2)	
8:5 309:21	395:9 397:21	7:24 8:4	4:18 190:20	