



March 16, 2021

SENT VIA EMAIL

Elizabeth Brehm
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Dear Ms. Brehm:

The Centers for Disease Control and Prevention and Agency for Toxic Substances and Disease Registry (CDC/ATSDR) received your February 19, 2021, Freedom of Information Act (FOIA) request on February 19, 2021, seeking:

“The CDC webpage <https://www.cdc.gov/vaccinesafety/concerns/autism.html> states that ‘Vaccine ingredients do not cause autism.’ Produce the studies or reviews the CDC relies upon to claim that aluminum adjuvant(s) used in vaccines do not cause autism.”

The National Center for Emerging and Zoonotic Infectious Diseases (NCEZID) provided the following 23 studies:

CDC’s Immunization Safety Office plays a vital role in ensuring our nation’s vaccine safety. CDC uses many strategies to assess vaccine safety, to identify health problems possibly related to vaccines, and to conduct studies that help determine whether a health problem is caused by a specific vaccine.

Additional list of studies related to the Childhood Vaccine Schedule are below:

- 1) *Early thimerosal exposure and neuropsychological outcomes at 7 to 10 years. Thomson WW, Price C, Goodson B, et al. N Engl J Med 2007; 357:1281-1292.*
- 2) *Prenatal and infant exposure to thimerosal from vaccines and immunoglobulins and risk of autism. Price CS, Thompson WW, Goodson B, et al. Pediatrics 2010; 126:656-664.*
- 3) *Increasing exposure to antibody-stimulating proteins and polysaccharides in vaccines is not associated with risk of autism. DeStefano F, Price CS, Weintraub ES. J Pediatrics 2013; 163:561-567.*
- 4) *Reply to PMID 23545349. Price CS, DeStefano F, Weintraub ES. J Pediatr 2013; 163:1231-1232.*
- 5) *Association Between Estimated Cumulative Vaccine Antigen Exposure Through the First 23 Months of Life and Non-Vaccine-Targeted Infections From 24 Through 47 Months of Age. Glanz JM, Newcomer SR, Daley MF et al. JAMA 2018; 319:906-913.*
- 6) *White paper on studying the safety of the childhood schedule in the vaccine safety datalink. Vaccine 2016; 34 Suppl 1, A1-29*
- 7) *Patterns of childhood immunization and all-cause mortality. McCarthy NL, Sukumaran L, Newcomer S et al. Vaccine 2017; 35:6643-6648.*
- 8) *Assessing potential confounding and misclassification bias when studying the safety of the childhood immunization schedule. Daley MR, Shoup JA, Newcomer SR, et al. Acad Pediatr 2018; 18:754-762.*

- 9) *Infant vaccinations and childhood asthma among full-term infants.* Maher Mullooly JP, Drew L, DeStefano F. 2004; *Pharmacoepidemiol Drug Saf*: 13(1):1-9
- 10) *On-time vaccine receipt in the first year does not adversely affect neuropsychological outcomes.* Smith M J , Woods C R *Pediatrics* 2010;125:1134-1141
- 11) *Number of antigens in early childhood vaccines and neuropsychological outcomes at age 7–10 years.* Shahed Iqbal^{1*}, John P. Barile², William W. Thompson³ and Frank DeStefano¹. *Pharmacoepidemiology and Drug Safety* (2013). Published online in Wiley Online Library (wileyonlinelibrary.com) DOI: 10.1002/pds.3482

Additional studies were cited in the IOM Report:

- 12) *VSD Rapid Cycle Analysis Influenza Working Group. Signal identification and evaluation for risk of febrile seizures in children following trivalent inactivated influenza vaccine in the Vaccine Safety Datalink Project, 2010-2011* external icon □. Tse A, Tseng HF, Greene SK, Vellozzi C, Lee GM, *Vaccine*. 2012;30(11):2024-2031.
- 13) *Safety of thimerosal-containing vaccines: A two-phased study of computerized health maintenance organization databases.* Verstraeten T, Davis RL, DeStefano F, Lieu TA, Rhodes PH, Black SB, et al. *Pediatrics*. 2003;112(5):1039-1048.

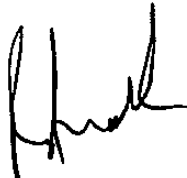
The following studies are those that we have released in the past as responsive to FOIA request concerning the Childhood Vaccine Schedule not listed above:

- 14) *Childhood Vaccinations, Vaccination Timing, and Risk of Type 1 Diabetes Mellitus* Frank DeStefano, John P. Mullooly, Catherine A. Okoro, Robert T. Chen, S. Michael Marcy, Joel I. Ward, Constance M. Vadheim, Steve B. Black, Henry R. Shinefield, Robert L. Davis and Kari Bohlke; *Pediatrics*, 2001;108:e112
- 15) *Assessing misclassification of vaccination status: Implications for studies of the safety of the childhood immunization schedule.* Matthew F. Daley a,b, f, Jason M. Glanz a, Sophia R. Newcomer a, Michael L. Jackson c, Holly C. Groom d, Marlene M. Lugg e, Huong Q. McLean f, Nicola P. Klein g, Eric S. Weintraub h, Michael M. McNeil *Vaccine*. 2017 Apr 4; 35(15): 1873-1878. Epub 2017 Mar 9.
- 16) *Assessing Potential Confounding and Misclassification Bias When Studying the Safety of the Childhood Immunization Schedule* Matthew F. Daley, MD; Jo Ann Shoup, PhD; Sophia R. Newcomer, MPH; Michael L. Jackson, PhD; Holly C. Groom, MPH; Steven J. Jacobsen, MD, PhD; Huong Q. McLean, PhD, MPH; Nicola P. Klein, MD, PhD; Eric S. Weintraub, MPH; Michael M. McNeil, MD, MPH; Jason M. Glanz, PhD *Acad. Pediatr*. 2018 Sept – Oct; 18(7): 754-762. Epub 2018 Mar 28.
- 17) *Childhood vaccines and Kawasaki disease, Vaccine Safety Datalink, 1996-2006* Joseph Y. Abrams a, *, Eric S. Weintraub b, James M. Baggs b, Natalie L. McCarthy b, Lawrence B. Schonberger a, Grace M. Lee c, Nicola P. Klein d, Edward A. Belongia e, Michael L. Jackson f, Allison L. Naleway g, James D. Nordin h, Simon J. Hambidge i, Ermias D. Belay a *Vaccine*. 2015 Jan 3;33(2):382-7.
- 18) *Bias from outcome misclassification in immunization schedule safety research.* Sophia R. Newcomer | Martin Kulldorff³ | Stan Xu | Matthew F. Daley | Bruce Fireman | Edwin Lewis | Jason M. Glanz *Pharmacoepidemiol. Drug Saf*. 2018 Feb; 27(2): 221-228. Epub 2018 Jan 2.
- 19) *Compliance With Multiple-Dose Vaccine Schedules Among Older Children, Adolescents, and Adults: Results From a Vaccine Safety Datalink Study.* Jennifer C. Nelson, PhD, Rachel C. L. Bittner, MS, Lora Bounds, BS, Shanshan Zhao, MS, James Baggs, PhD, James G. Donahue, DVM, PhD, MPH, Simon J. Hambidge, MD, PhD, Steven J. Jacobsen, MD, PhD, Nicola P. Klein, MD, PhD, Allison L. Naleway, PhD, Kenneth M. Zangwill, MD, and Lisa A. Jackson, MD, MPH *Am J Public Health*. 2009 Oct;99 Suppl 2:S389-97.

- 20) *Association Between Undervaccination With Diphtheria, Tetanus Toxoids, and Acellular Pertussis (DTaP) Vaccine and Risk of Pertussis Infection in Children 3 to 36 Months of Age* Jason M. Glanz, PhD; Komal J. Narwaney, MD, PhD; Sophia R. Newcomer, MPH; Matthew F. Daley, MD; Simon J. Hambidge, MD, PhD; Ali Rowhani-Rahbar, MD, PhD; Grace M. Lee, MD, MPH; Jennifer C. Nelson, PhD; Allison L. Naleway, PhD; James D. Nordin, MD, MPH; Marlene M. Lugg, DrPH; Eric S. Weintraub, MPH *JAMA Pediatr.* 2013 Nov;167(11):1060-4.
- 21) *Cumulative and episodic vaccine aluminum exposure in a population-based cohort of young children* Jason M. Glanz a,b,*, Sophia R. Newcomer, Matthew F. Daley a,c, David L. McClure d,1, Roger P. Baxter f, Michael L. Jackson g, Allison L. Naleway h, Marlene M. Lugg i, Frank DeStefano j *Vaccine.* 2015 Nov 27;33(48):6736-44. doi: 10.1016/j.vaccine.2015.10.076. Epub 2015 Oct 27.
- 22) *Febrile Seizure Risk after Vaccination in Children One to Five Months of Age* Jonathan Duffy MD, MPH a,*, Simon J. Hambidge MD, PhD b, Lisa A. Jackson MD, MPH c, Elyse O. Kharbanda MD, MPH d, Nicola P. Klein MD, PhD e, Allison Naleway PhD f, Saad B. Omer MBBS, MPH, PhD g, Eric Weintraub MPH a, on behalf of the Vaccine Safety Datalink *Pediatr. Neurol.* 2017 Nov; 76: 72-78. Epub 2017 Aug 23.
- 23) *Febrile Seizure Risk After Vaccination in Children 6 to 23 Months* Jonathan Duffy, MD, MPH, a Eric Weintraub, MPH, a Simon J. Hambidge, MD, PhD, b Lisa A. Jackson, MD, MPH, c Elyse O. Kharbanda, MD, MPH, d Nicola P. Klein, MD, PhD, e Grace M. Lee, MD, MPH, f S. Michael Marcy, MD, g, † Cynthia C. Nakasato, MD, h Allison Naleway, PhD, i Saad B. Omer, MBBS, MPH, PhD, j Claudia Vellozzi, MD, MPH, a Frank DeStefano, MD, MPH, a on behalf of the Vaccine Safety Datalink *Pediatrics.* 2016 Jul;138(1). pii: e20160320. doi: 10.1542/peds.2016-0320. Epub 2016 Jun 6.

If you need any further assistance or would like to discuss any aspect of the records provided please contact either our FOIA Requester Service Center at 770-488-6399 or our FOIA Public Liaison at 770-488-6277.

Sincerely,



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