

Current State of Vaccine Safety Science: Autism

James (Jack) Lyons-Weiler, PhD

CEO/President

Institute for Pure and Applied Knowledge

ipaknowledge.org

jim@ipaknowledge.org





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Vaccines Do Not Cause Autism



[Autism spectrum disorder \(ASD\)](#) is a developmental disability that is caused by differences in how the brain functions. People with ASD may communicate, interact, behave, and learn in different ways. Recent estimates from [CDC's Autism and Developmental Disabilities Monitoring Network](#) found that about 1 in 68 children have been identified with ASD in communities across the United States. CDC is committed to providing essential data on ASD, searching for causes of and factors that increase the risk for ASD, and developing resources that help identify children with ASD as early as possible.

There is no link between vaccines and autism.

Some people have had concerns that ASD might be linked to the vaccines children receive, but studies have shown that there is no link between receiving vaccines and developing ASD. In 2011, an Institute of Medicine (IOM) report on the eight vaccines given to children and adults found that with rare exceptions, these vaccines are very safe.

A [2013 CDC study \[PDF - 204 KB\]](#) [↗](#) added to the research showing that vaccines do not cause ASD. The study compared the number of antigens (substances in vaccines that cause the body's immune system to produce disease-fighting antibodies) from vaccines during the first two years of life. The results showed that the total amount of antigens in vaccines received was the same between children with ASD and those that did not have ASD.

Vaccine ingredients do not cause autism.

One vaccine ingredient that has been studied specifically is [thimerosal](#), a mercury-based preservative used to prevent contamination of multidose vials of vaccines. Research shows that thimerosal does not cause ASD. In fact,

CDC Website

“Besides thimerosal, some people have had concerns about other vaccine ingredients in relation to ASD as well. However, no links have been found between **any vaccine ingredients** and ASD.”

Vaccine	Birth	1 mo	2 mos	4 mos	6 mos	9 mos	12 mos	15 mos	18 mos	19–23 mos	2–3 yrs	4–6 yrs	7–10 yrs	11–12 yrs	13–15 yrs	16–18 yrs
Hepatitis B ¹ (HepB)	2 STUDIES SHOW ASSOCIATION															
Rotavirus ² (RV) RV1 (2-dose series); RV5 (3-dose series)			0 STUDIES EXIST													
Diphtheria, tetanus, & acellular pertussis ³ (DTaP: <7 yrs)			6 STUDIES SHOW ASSOCIATION													
<i>Haemophilus influenzae</i> type b ⁴ (Hib)			2 STUDIES SHOW ASSOCIATION													
Pneumococcal conjugate ⁵ (PCV13)			0 STUDIES EXIST													
Inactivated poliovirus ⁶ (IPV: <18 yrs)			0 STUDIES EXIST													
Influenza ⁷ (IIV; LAIV)					0 STUDIES EXIST											
Measles, mumps, rubella ⁸ (MMR)					2 POSITIVE AND MANY NEGATIVE “STUDIES” EXIST RE: Thompson											
Varicella ⁹ (VAR)							1 STUDY SHOWS ASSOCIATION									
Hepatitis A ¹⁰ (HepA)							1 STUDY SHOWS ASSOCIATION									
Meningococcal ¹¹ (Hib-MenCY ≥ 6 weeks; MenACWY-D ≥ 9 mos; MenACWY-CRM ≥ 2 mos)			0 STUDIES – GBS, PARALYSIS (NUMEROUS)													
Tetanus, diphtheria, & acellular pertussis ¹² (Tdap: ≥ 7 yrs)	“VACCINES DO NOT CAUSE AUTISM” - CDC												N/A			
Human papillomavirus ¹³ (2vHPV: females only; 4vHPV, 9vHPV: males and females)													N/A			
Meningococcal B ¹¹													N/A			
Pneumococcal polysaccharide ⁵ (PPSV23)											0 STUDIES					

Population Association Studies Ignored by CDC by Vaccine Type

Hepatitis B

Gallagher CM, Goodman MS. 2010. Hepatitis B vaccination of male neonates and autism diagnosis, NHIS 1997-2002. *J Toxicol Environ Health A*. 73(24):1665-77. doi: 10.1080/15287394.2010.519317.

Geier DA, Hooker BS, Kern JK, King PG, Sykes LK, Geier MR. 2013. A two-phase study evaluating the relationship between Thimerosal-containing vaccine administration and the risk for an autism spectrum disorder diagnosis in the United States. *Transl Neurodegener*. 2(1):25. doi: 10.1186/2047-9158-2-25.

Varicella

Deisher et al., 2014. Impact of environmental factors on the prevalence of autistic disorder after 1979. *J. Public Health and Epidemiology* Vol.6(9), pp. 271-286 , September 2014 DOI: 10.5897/JPHE2014.0649

Hepatitis A

Deisher et al., 2014. Impact of environmental factors on the prevalence of autistic disorder after 1979. *J. Public Health and Epidemiology* Vol.6(9), pp. 271-286 , September 2014 DOI: 10.5897/JPHE2014.0649

DtaP

Geier DA et al., 2013 A two-phase study evaluating the relationship between Thimerosal-containing vaccine administration and the risk for an autism spectrum disorder diagnosis in the United States. *Transl Neurodegener*. 2(1):25. doi: 10.1186/2047-9158-2-25.

Geier DA, Geier MR. 2006. A meta-analysis epidemiological assessment of neurodevelopmental disorders following vaccines administered from 1994 through 2000 in the United States. *Neuro Endocrinol Lett*. 27(4):401-13.

Geier DA, Geier MR. 2005. A two-phased population epidemiological study of the safety of thimerosal-containing vaccines: a follow-up analysis. *Med Sci Monit*. 11(4):CR160-70.

Geier D, Geier MR. 2004. Neurodevelopmental disorders following thimerosal-containing childhood immunizations: a follow-up analysis. *Int J Toxicol*. 23(6):369-76.

Geier DA, Geier MR. 2004. An evaluation of serious neurological disorders following immunization: a comparison of whole-cell pertussis and acellular pertussis vaccines. *Brain Dev*. 2004 Aug;26(5):296-300.

Geier MR, Geier DA. 2003. Neurodevelopmental disorders after thimerosal-containing vaccines: a brief communication. *Exp Biol Med (Maywood)*. 228(6):660-4.

Haemophilus influenza Type B

Geier DA, Geier MR. 2006. An evaluation of the effects of thimerosal on neurodevelopmental disorders reported following DTP and Hib vaccines in comparison to DTPH vaccine in the United States. *J Toxicol Environ Health A*. 69(15):1481-95.

Geier DA, Geier MR. 2006. A meta-analysis epidemiological assessment of neurodevelopmental disorders following vaccines administered from 1994 through 2000 in the United States. *Neuro Endocrinol Lett*. 27(4):401-13.

MMR

Goldman, GS FE Yazbak. 2004. An Investigation of the Association Between MMR Vaccination and Autism in Denmark 9:3 (70-75)

Singh VK et al., 2002. Abnormal measles-mumps-rubella antibodies and CNS autoimmunity in children with autism. *J Biomed Sci*. 9(4):359-64. *J Biomed Sci*. 9(4):359-64.

Singh VK, Lin SX, Yang VC. Serological association of measles virus and human herpesvirus-6 with brain autoantibodies in autism. *Clin Immunol Immunopathol*. 1998 Oct;89(1):105-8.

FULL SCHEDULE

Delong G. A positive association found between autism prevalence and childhood vaccination uptake across the U.S. population. *J Toxicol Environ Health A*. 74(14):903-16. doi: 10.1080/15287394.2011.573736.

Desoto MC, Hitlan RT. Blood levels of mercury are related to diagnosis of autism: a reanalysis of an important data set. *J Child Neurol*. 2007 Nov;22(11):1308-11.



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Vaccines Do Not Cause Autism

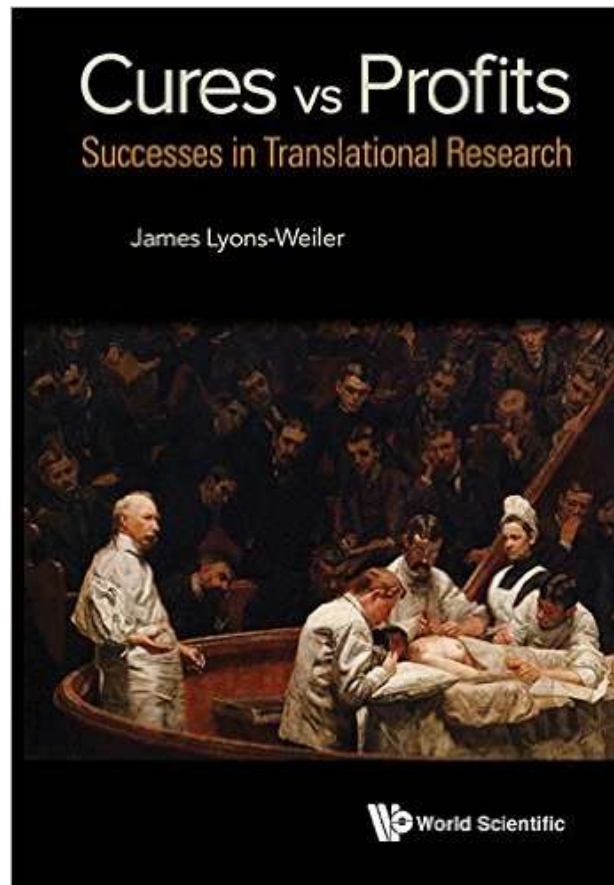


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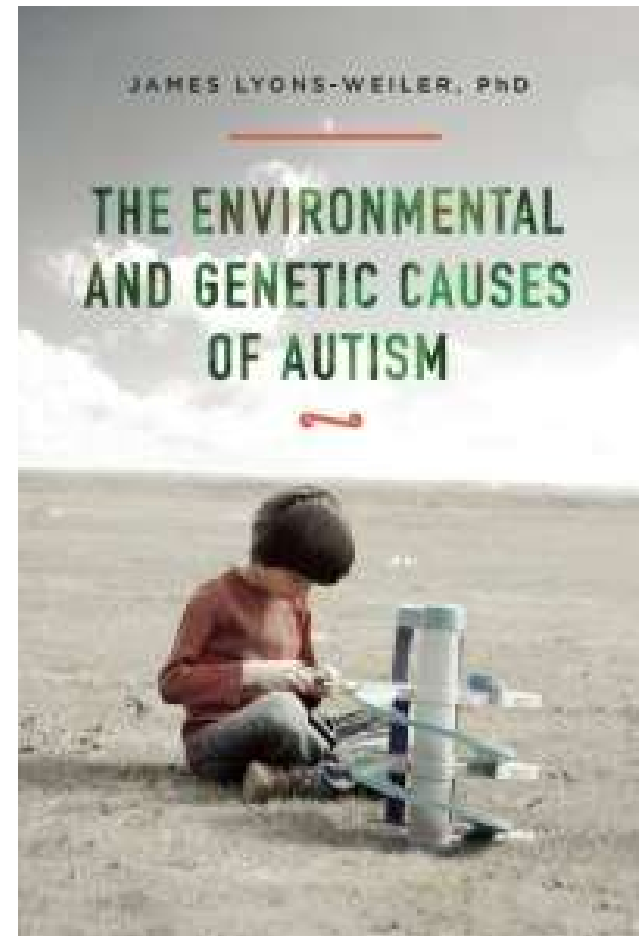
TABLE S-1 Continued

Adverse Event	MMR Vaccine Chapter 4	Varicella Vaccine Chapter 5	Influenza Vaccine Chapter 6	Hepatitis A Vaccine Chapter 7	Hepatitis B Vaccine Chapter 8	HPV Vaccine Chapter 9	DT-, TT-, and aP-Containing Vaccines Chapter 10	Meningococcal Vaccine Chapter 11	Injection-Related Events Chapter 12
Febrile Seizures	CS								
Afebrile Seizures	I								
Seizures		I	F		I		I		
Meningitis	I ^c								
Cerebellar Ataxia		I							
Ataxia	I						I		
Autism	FR						I		
Acute Disseminated Encephalomyelitis	I	I	I	I	I	I	I	I	
Transverse Myelitis	I	I	I	I	I	I	I	I	
Optic Neuritis	I ^c		F		I ^c		I ^c		
Neuromyelitis Optica	I ^c		I		I	I			
Multiple Sclerosis Onset in Adults	I		I		I		I		
Multiple Sclerosis Onset in Children	I				I				
Multiple Sclerosis Relapse in Adults			I		I		I		

#1 New Release in
PUBLIC HEALTH (Amazon)



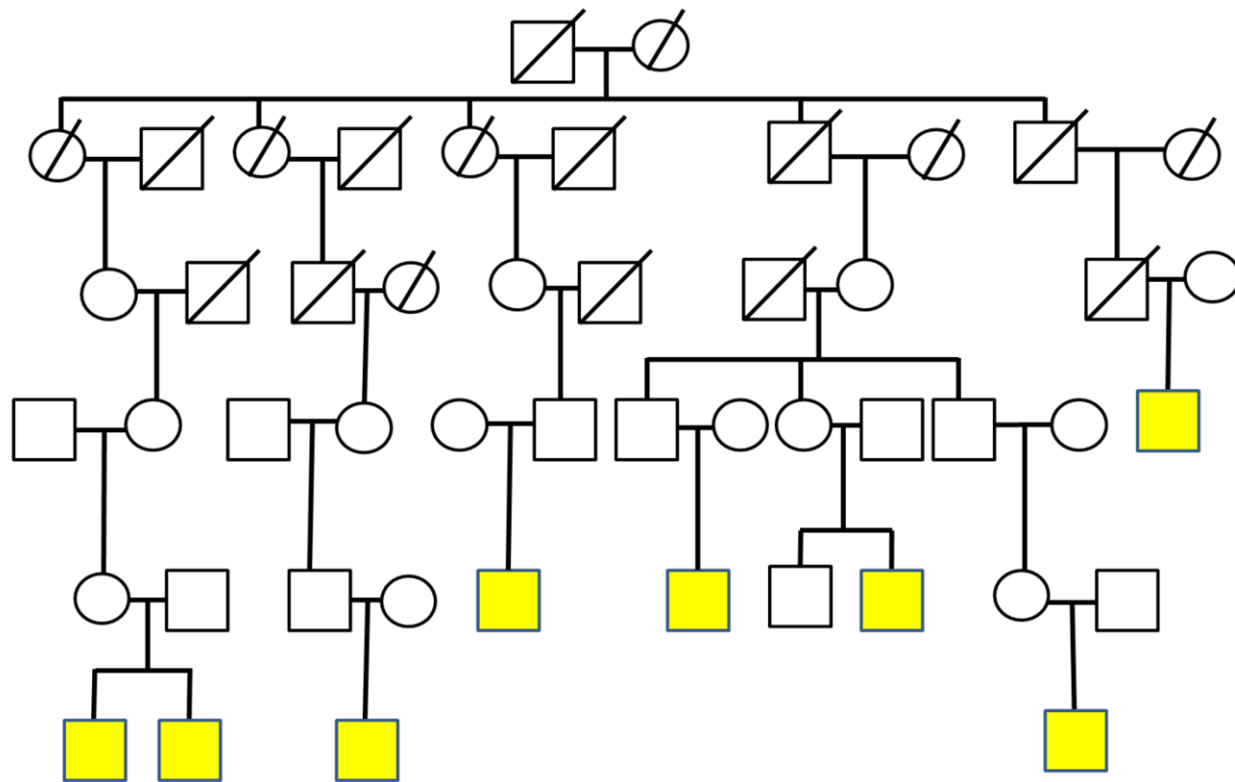
Coming in Nov 2016



I have read >3,000 research studies on autism

- There are hundreds of genes that “contribute” to autism
- No single gene account for >1% risk of autism
- Autism is **no more** than 50% Genetic
- Autism is **at least** 50% Environmental

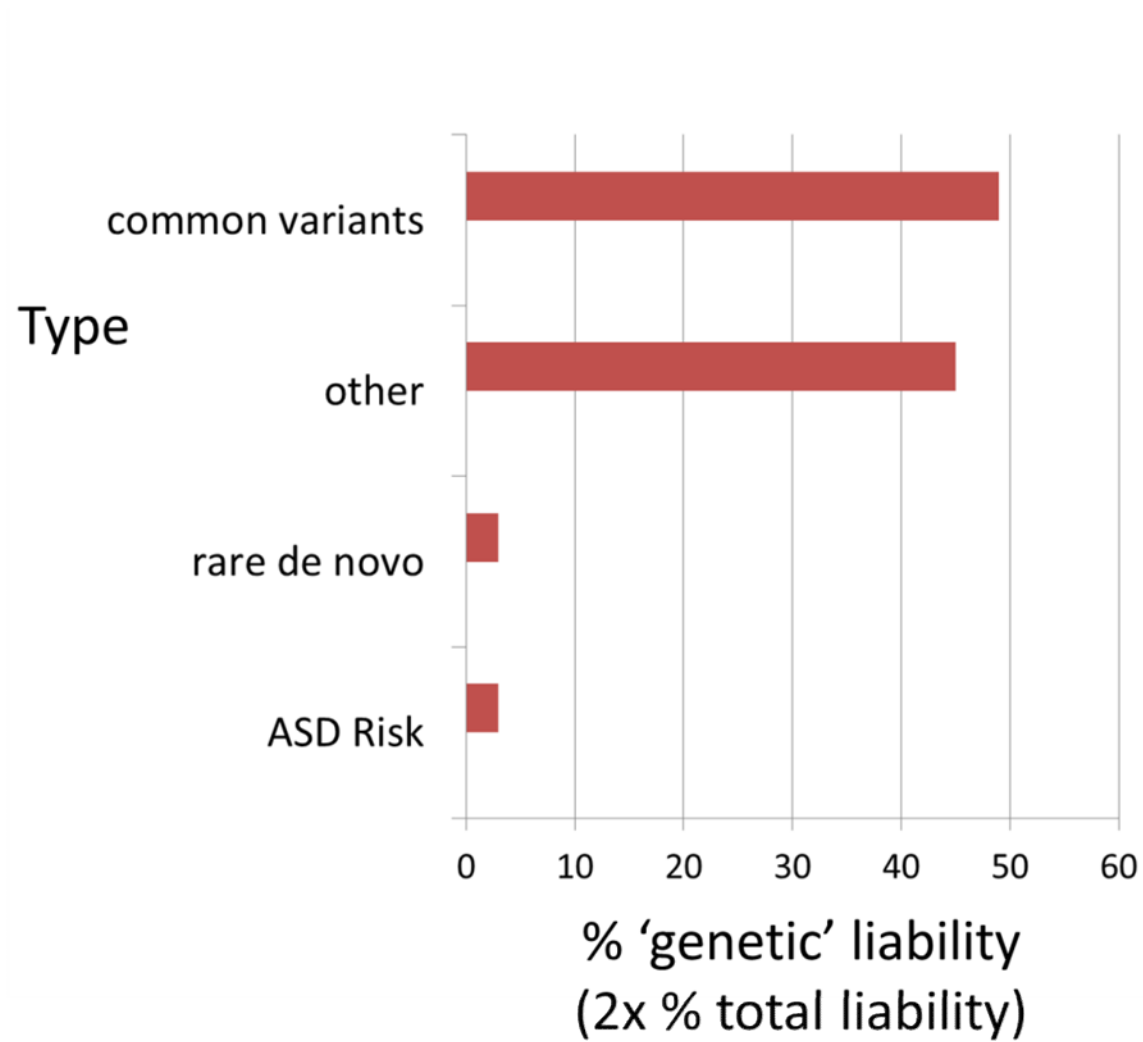




The investigators noted a great deal of variation in the specific manifestation of ASD across the pedigree. Within affected, IQ scores ranged from 41 to 124 for verbal IQ (VIQ) and 45 to 140 for performance IQ (PIQ); three had language delay; one had non-febrile seizures, but the other six did not. (Allen-Brady, K et al., 2009. *A high-density SNP genome-wide linkage scan in a large autism extended pedigree. Molecular Psychiatry* 14:590–600; doi:10.1038/mp.2008.14)

Three Categories of “Autism” Genes

- AUTISK RISK GENES –
 - e.g., Synaptic proteins, serotonin
- ENVIRONMENTAL SUSCEPTIBILITY GENES
 - e.g., Detoxification pathways, glutamate receptors
- AUTISM PHENOTYPE MODIFIER GENES
 - e.g., intellectual ability



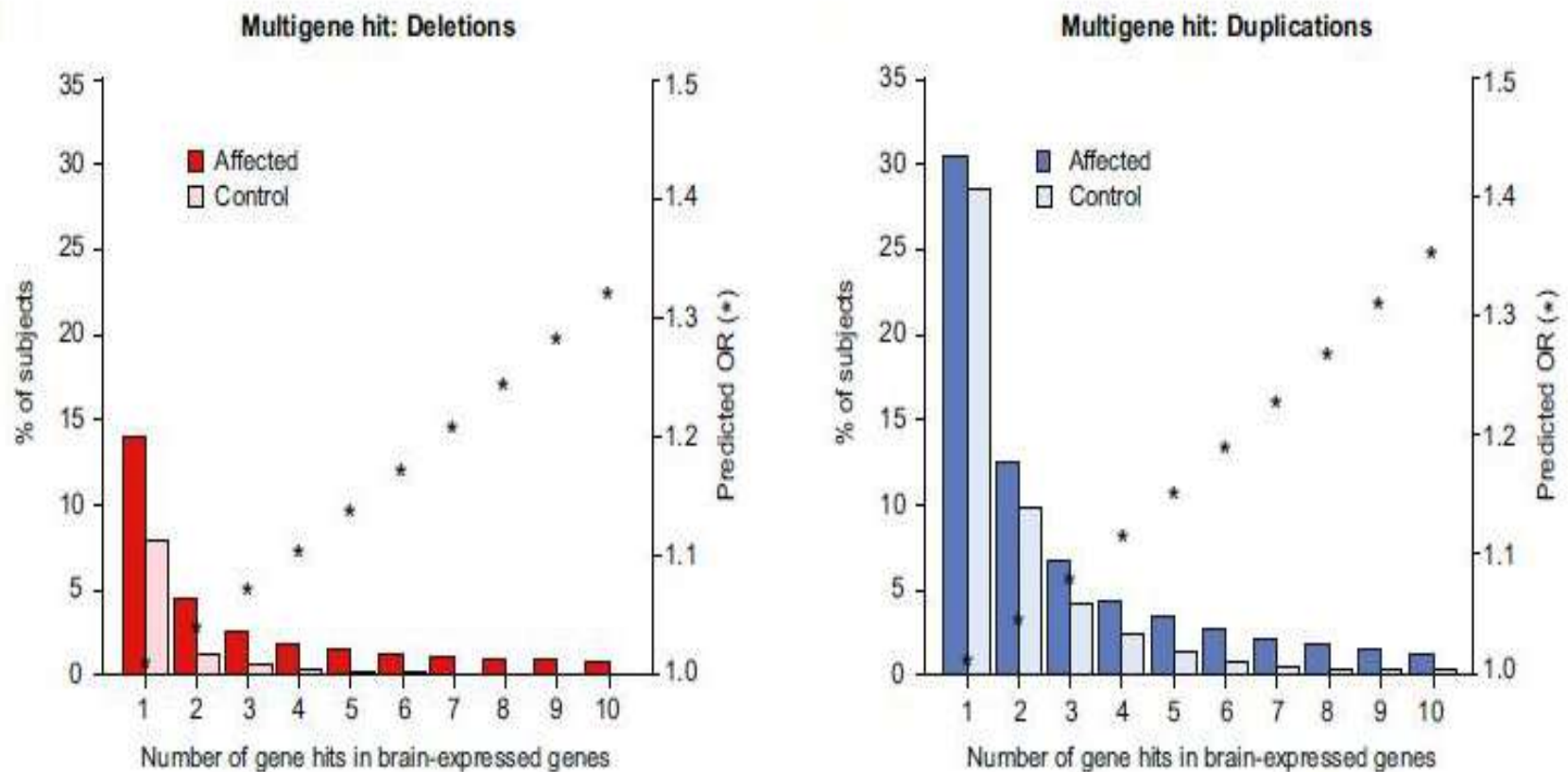
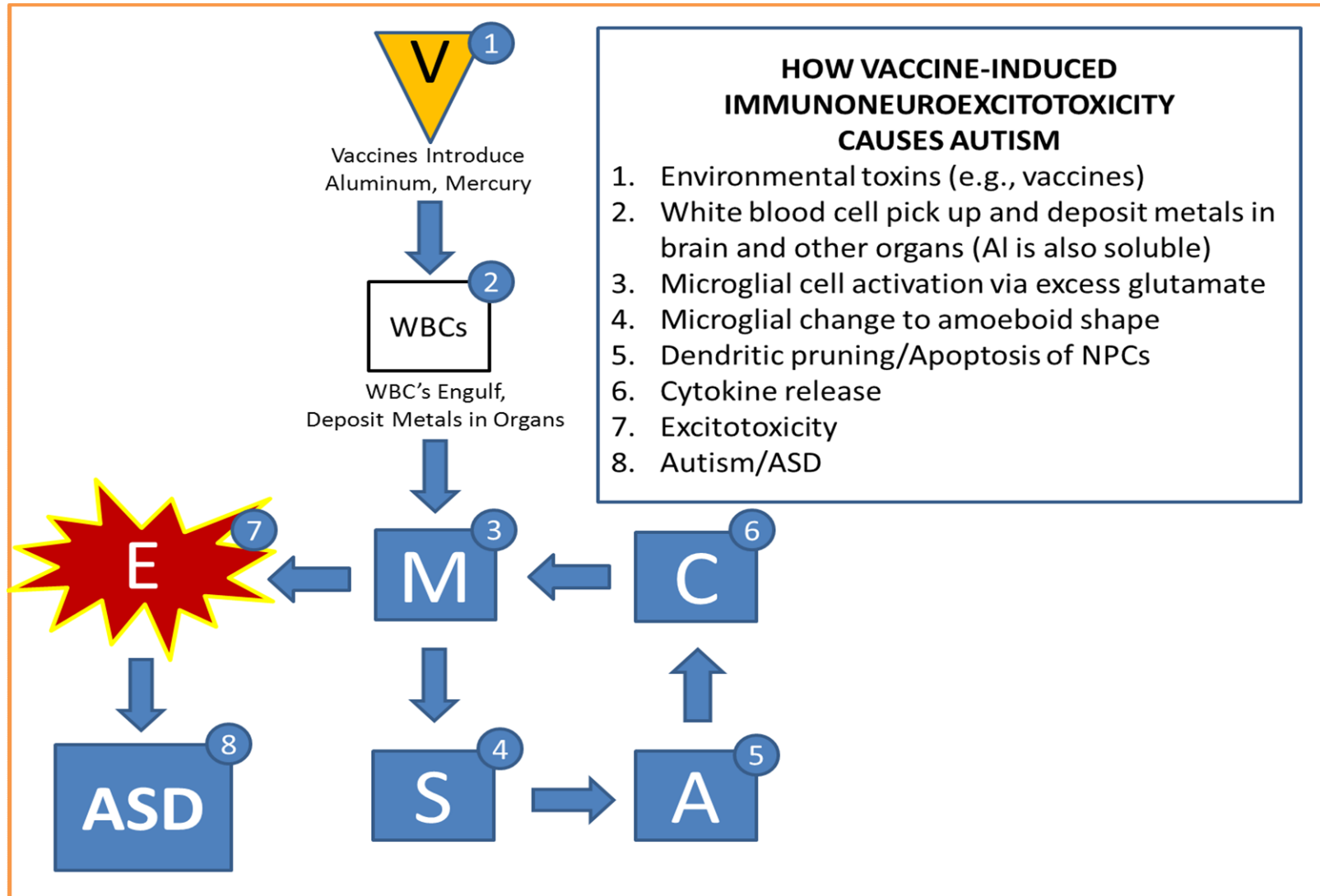
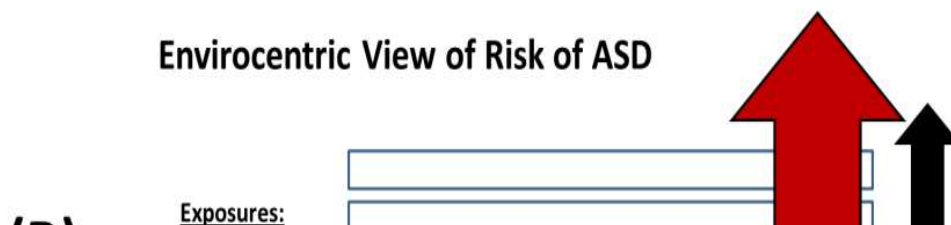
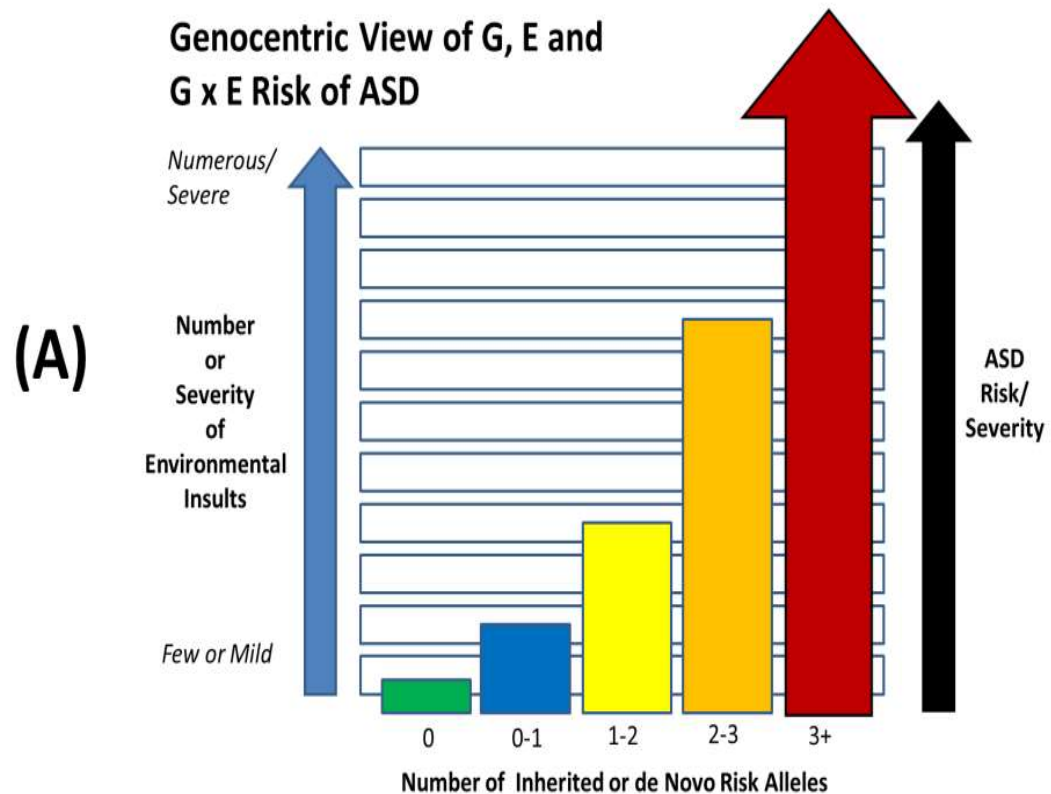
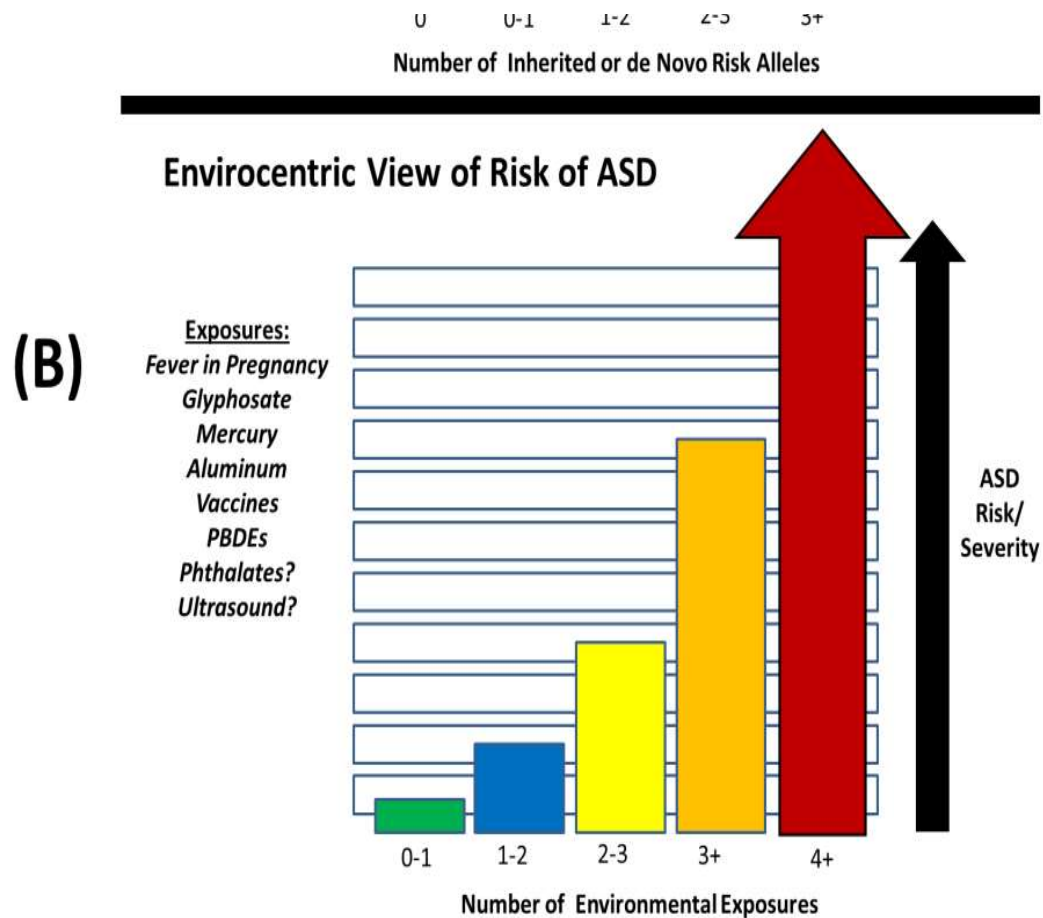


Figure 4 Over-representation of copy-number-variation (CNV) ‘hits’ in ASD affected vs. neurotypical controls is related to the risk of ASD diagnosis (predicted OR) for both CNV deletions and duplications. Data from Pinto et al. (2014). Copyright © Pinto et al., 2014, used with permission.



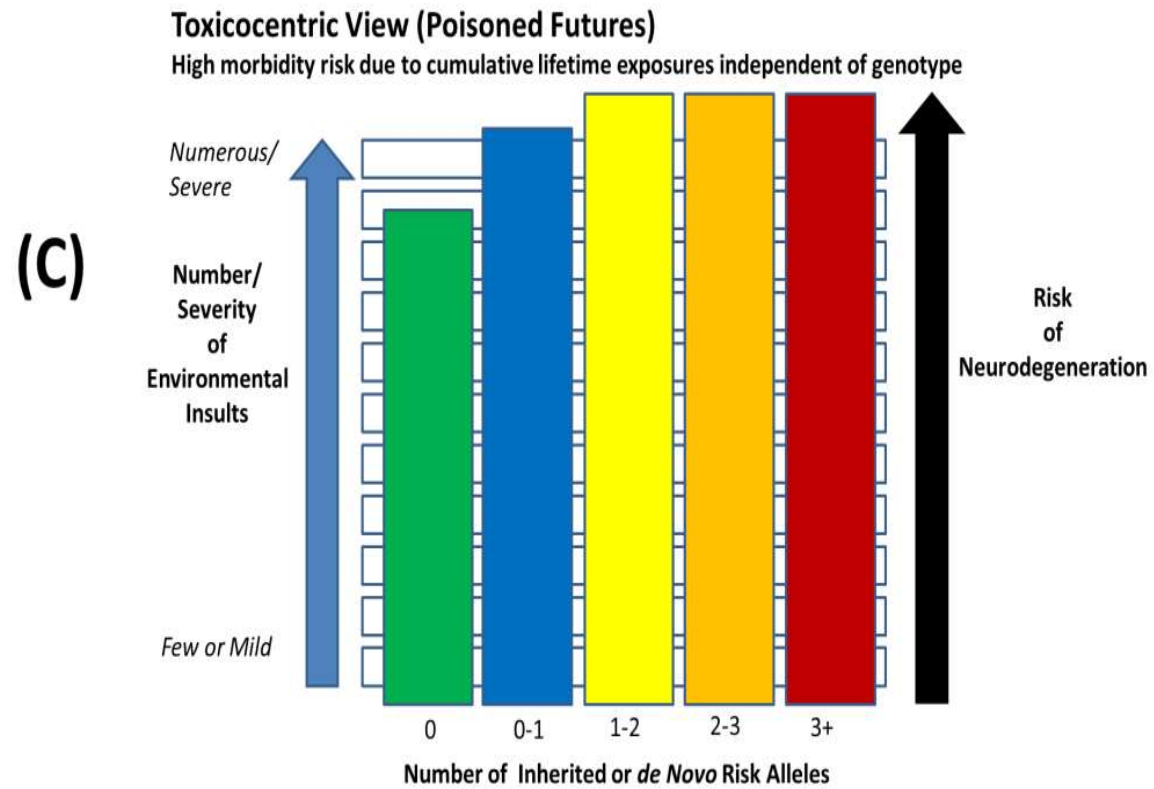
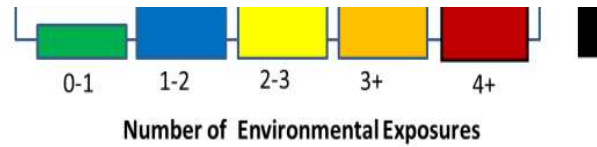




Toxicocentric View (Poisoned Futures)

High morbidity risk due to cumulative lifetime exposures independent of genotype





Genetics (G), Environment (E) and G x E

- Around 800 genes ‘associated’ with autism
 - True Autism Risk Genes
 - **Environmental Susceptibility Genes (G x E)** ←
 - Autism Phenotype Modifier Genes
- **No Individual Gene** Accounts for more than 1% of Autism Liability
- **“Genetics”** Accounts for No More than 50% Liability
- **“Environment”** Accounts for at least 50% Liability
 - Risk of neurodegenerative effect due to exposure is cumulative w/lifetime dose
 - Why “at least”? Direct exposures + exposures + genetics (G x E Interaction)

TABLE S-1 Continued

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Transverse Myelitis	I	I	I	I	I	I	I	I	
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Meningococcal B ¹¹													N/A			
Pneumococcal polysaccharide ⁵ (PPSV23)													0 STUDIES			

Emma Bursick

SUDEP

Sudden Unexpected Death in Epilepsy

My family and I have been following every word of your posts about vaccines but today's information on the government's 1991 study has pushed me personally over the edge. Our precious Emma was a healthy normally developing infant until the age of 6 months -- within 24 hours of receiving her 6 month DPT immunization, she suddenly began having 10-15 seizures a day. After 7 years of uncontrolled seizures and resulting developmental and cognitive delays, she died in her sleep of Sudden Unexpected Death in Epilepsy (SUDEP). Government corruption has a face and that face for me is Emma. There are no words to express the rage I'm feeling right now.

I pray that your relentless campaign of public awareness may spare even one family from the agony we live with.

Jan Boyd

Emma's mom



DONATE NOW



My life is my message ~ Gandhi

Emma Bursick
MEMORIAL FUND

*Leveling the playing field for the fight
against Epilepsy and SUDEP.*

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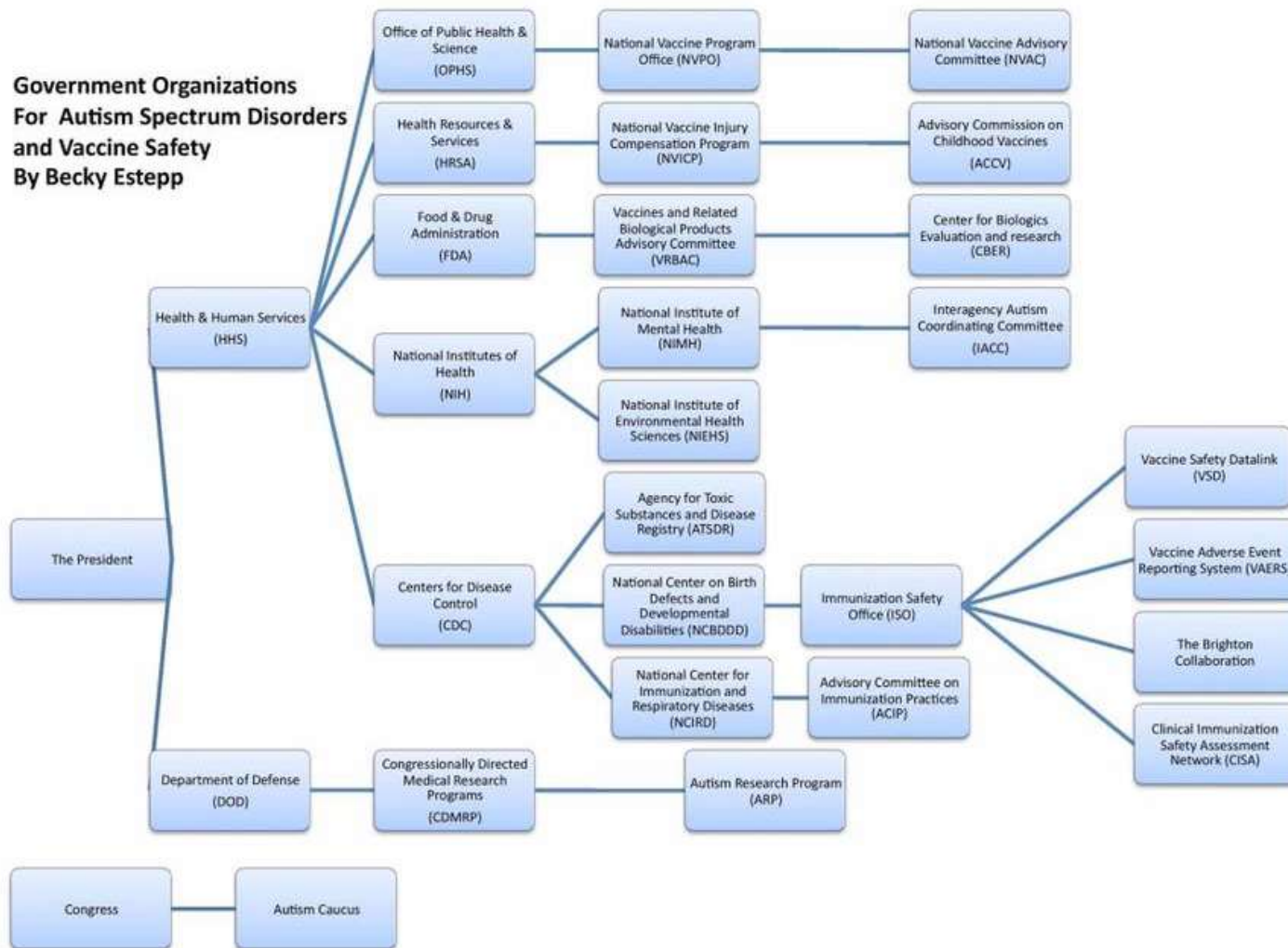
An angel in the book of life
wrote down Emma's birth,
and whispered as she
closed the book...
too beautiful for earth.

Fly high sweet butterfly!

neo-wakes-up.jpg

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Government Organizations For Autism Spectrum Disorders and Vaccine Safety By Becky Estep



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**“SCIENTIFIC EVIDENCE EXISTS THAT
INDICATES THAT VACCINES MAY CAUSE
AUTISM IN SOME PEOPLE”**

IPAK