

# CoMED

Coalition for Mercury-Free Drugs

**CITIZEN PETITION TO  
BAN USE OF MERCURY IN MEDICINE,  
UNLESS PROVEN TOXICOLOGICALLY  
SAFE TO THE CGMP STANDARD  
“SUFFICIENTLY NONTOXIC ...”**

2007P.0331

August 2007

CP1

# CoMED

Coalition for Mercury-Free Drugs

**CITIZEN PETITION TO  
BAN USE OF MERCURY IN MEDICINE,  
UNLESS PROVEN TOXICOLOGICALLY  
SAFE TO THE CGMP STANDARD  
“SUFFICIENTLY NONTOXIC ...”**

August 2007

*FDA Original  
Revised 18 Aug 2007*

# CoMeD

## Coalition for Mercury-Free Drugs

<http://www.mercury-freedrugs.org>

33A Hoffman Avenue, Lake Hiawatha, NJ 07034-1922

Friday, August 10, 2007

Michael O. Leavitt  
Secretary  
Department of Health and Human Services  
200 Independence Avenue, SW  
Washington, DC 20201

Dr. Andrew von Eschenbach  
Commissioner  
Food and Drug Administration  
5600 Fishers Lane  
Rockville, MD 20857

Filed At:

Division of Dockets Management  
Food and Drug Administration  
Department of Health and Human Services  
5630 Fishers Lane  
Room 1061  
Rockville, MD 20852

Dear Secretary Leavitt and Commissioner von Eschenbach:

We the undersigned [collectively, representatives for the Coalition for Mercury-free Drugs] hereby petition the United States Department of Health and Human Services (HHS) and the HHS' Food and Drug Administration (FDA), pursuant to the United States Constitution, the Public Health and Welfare (codified in Title 42 of the United States Code [42 U.S.C.] at, but not limited to, **42 U.S.C. Section 262(a)(2)(A)**, **42 U.S.C. Section 262(d)(1)**, **42 U.S.C. 262(j)** and **42 U.S.C. Section 300aa-10 et seq.** [added by the National Childhood Vaccine Injury Act {1988 & 1998 Supp}], the Federal Food, Drug, and Cosmetic Act (FDC Act, codified in Chapter 9 of Title 21 of the United States Code [21 U.S.C. Chapter 9]) at, but not limited to, **21 U.S.C. Section 351(a)(2)(B)** and **21 U.S.C. Section 355(e)(3)**, and Title 21 of the Code of Federal Regulations (**21 C.F.R.**) including, but not limited to, **21 C.F.R. Section 10.30**, requesting the Secretary of Health and Human Services or the Commissioner of Food and Drugs, as appropriate, to:

1. IMMEDIATELY issue an order barring the administering of any disease-preventive Thimerosal-containing vaccine, or other such mercury-containing pharmaceutical product, that contains more than 0.05-micrograms-per-dose levels of Thimerosal to pregnant women and children under the age of 60 months, on the grounds that higher levels are **now** (as of 1 May 2007) a **proven** health hazard to **susceptible** fetuses, newborns and young children,
2. Suspend the approval or licensing of any FDA-regulated product that contains Thimerosal or any other mercury-based compounds as a preservative, or adjuvant, in the final formulation **unless** the total level of said compounds is **not more than** 0.05 micrograms of mercury per dose for vaccines and similar biological products or, *for other pharmaceutical products administered more frequently, not more than* 0.01 micrograms of mercury per day, on the grounds that doing so will significantly reduce the risks of adverse reactions in susceptible children under the authority conferred upon you by the National Childhood Vaccine Injury Act of 1986, **42 U.S.C. Section 300aa-10 et seq.**, under **42 U.S.C. Section 300aa-27(a)(2)** for vaccines and, *for other drugs*, the general "public safety" authority granted in the Federal Food, Drug, and Cosmetic Act (**21 U.S.C. Chapter 9**),

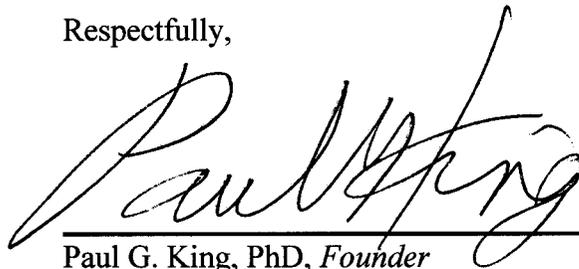
2007P.033)

CP1

3. Issue a Class I or, *failing that*, a Class II recall of all batches of multi-dose vaccines that contain a Thimerosal level of more than 0.001 % on the grounds that:
  - a. All such multi-dose vaccine formulations are **now** a proven health hazard to susceptible individuals of all ages **and**
  - b. Therefore, a recall will reduce the risk of adverse reactions that, *under the authority conferred upon you by the National Childhood Vaccine Injury Act of 1986*, you are directed to minimize, **and**
4. *To protect public health and safety*, issue orders:
  - a. Banning vaccines and other infrequently administered biological drug products providing **more than** 0.05 microgram ( $\mu\text{g}$ ) of mercury per dose of product from being introduced into commerce in the United States and any of its territories, possessions, and commonwealths after **1 January 2008**,
  - b. Banning other drug products providing **more than** 0.01  $\mu\text{g}$  of mercury per day from being introduced into commerce in the United States and any of its territories, possessions, and commonwealths after **1 June 2009**, **and**
  - c. Requiring, *after 1 January 2008*, the recall and destruction of ALL:
    - i. Vaccines remaining in commerce that contain **more than** 0.05  $\mu\text{g}$  of mercury per dose, **and**
    - ii. Other drug products remaining in commerce that contain **more than** 0.1  $\mu\text{g}$  of mercury per mL (or g) of drug,

**unless** the manufacturer thereof can prove that the mercury-based compound in said vaccine or other drug product causes **no** adverse neurological health outcomes in any group or subgroup of **susceptible** individuals, including, but not limited to, males, fetuses, newborns, children, and adolescents.

Respectfully,



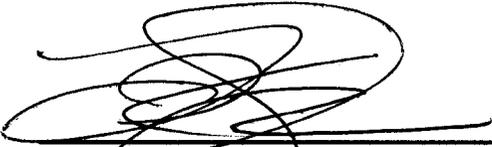
Paul G. King, PhD, *Founder*

**Facilities Automation Management Engineering  
(FAME) Systems,**

**Science Advisor for the Coalition for Mercury-free  
Drugs (CoMeD), and**

**CoMeD Representative from the State of New Jersey**  
33A Hoffman Ave., Lake Hiawatha, NJ 07034-1922  
1-973-263-4843  
[dr-king@gti.net](mailto:dr-king@gti.net)

**and the following persons:**



---

Rev. Lisa Karen Sykes  
**Director of CoMeD, and**  
**CoMeD Representative from the State of Virginia**  
3604 Milbrier Place, Richmond, VA 23233



---

Seth Sykes, PhD,  
**CoMeD Representative from the State of Virginia**  
3604 Milbrier Place, Richmond, VA 23233

*Dr. Mark R. Geier*

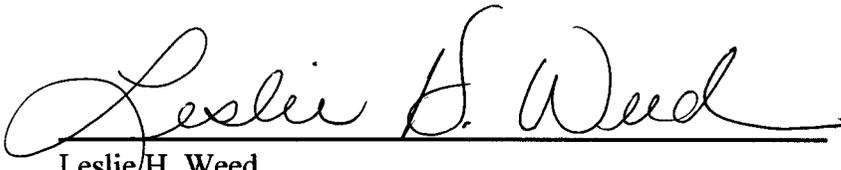
---

Mark R. Geier, MD, PhD, FABMG, FACE, *President*  
**The Genetic Centers of America**  
14 Redgate Court, Silver Spring, MD 20905

*David A. Geier*

---

David A. Geier, BA, *President*  
**MedCon, Inc.**  
14 Redgate Court, Silver Spring, MD 20905



---

Leslie H. Weed

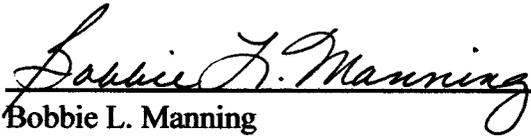
**CoMeD** Representative from the State of Florida  
412 Ponte Vedra Blvd, Ponte Vedra Beach, FL 32082



---

Robert C. Weed,

**CoMeD** Representative from the State of Florida  
412 Ponte Vedra Blvd, Ponte Vedra Beach, FL 32082



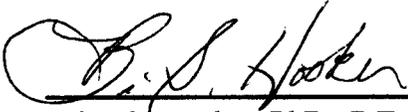
Bobbie L. Manning

**CoMeD** Representative from the State of New York  
384 High Street, Lockport, NY 14094



R. Michael Manning,

**CoMeD** Representative from the State of New York  
384 High Street, Lockport, NY 14094



Brian S. Hooker, PhD., P.E

**CoMeD**, Representative from the State of Washington  
503 South Young Place, Kennewick, WA 99336



Marcia C. Hooker,

**CoMeD** Representative from the State of Washington  
503 South Young Place, Kennewick, WA 99336

## **SUPPORTING ORGANIZATIONS**

In addition, the organizations listed below declare their strong support for this citizen petition:

Advocates for Children's Health Affected by Mercury Poisoning (A-CHAMP)

Alan D. Clark, MD; Memorial Research Fund

Autism One

Generation Rescue

Healing Every Autistic Life (HEAL)

Moms Against Mercury (MAM)

Mothering Magazine

National Autism Association (NAA)

NoMercury

Sensible Action For Ending Mercury-Induced Neurological Disorders (SafeMinds)

Schafer Autism Report (SAR)

Talk About Curing Autism (TACA)

# OUTLINE OF CITIZEN PETITION

## OVERALL CITIZEN PETITION TEXT

[1 – 25; P-1 – P-447]

- Initial Statement [1 – 2]
- Signatures [2 – 7]
- Supporting Organizations [8]
- Outline [9 – 11]
- References List [12 – 25]

## CITIZEN PETITION

[P-1]

### I. Actions Requested

[P-1 – P-7]

### II. Petitioners

[P-7 – P-8]

### III. Statement of Grounds

[P-9 – P-446]

#### A. Introduction

[P-9]

#### B. Safety Not Proven

[P-9 – P-439]

##### 1. Introduction

[P-10 – P-11]

##### 2. General Background – Thimerosal

[P-11 – P-12]

##### 3. Petitioners' General Concerns

[P-12 – P-15]

##### 4. Thimerosal Usage, Claimed Nontoxicity and Observed Toxicity — 1928 through the 1940s

[P-15 – P-25]

##### 5. Thimerosal Usage, Claimed Nontoxicity and Observed Toxicity — 1940s through 1960s

[P-26 – P-27]

##### 6. Removal Of Thimerosal And Other Mercury-based Compounds From OTC Drugs

[P-27 – P-28]

##### 7. FDA's Published Call-For-Data Notices And Announcements

[P-28]

##### 8. Thimerosal / Ethylmercury Toxicological Effects

[P-29 – P-44]

##### 9. Thimerosal & Other Mercurials At Multi-Dose Vaccine Or Lower Levels

[P-44 – P-53]

##### 10. Overview of Research Evaluating Thimerosal, Ethylmercury, Phenylmercuric Acetate, & Mercury in General with Respect to Toxicity/Toxicokinetics

[P-54 – P-61]

##### 11. Toxicokinetic Observations of Thimerosal-Containing Vaccine Use in Humans & Animal Models

[P-61 – P-66]

##### 12. Recent Comments of Federal Officials on Mercurials in Medicine

[P-67 – P-71]

##### 13. "Confounded" and "Biased" Epidemiological Studies On Vaccinated Children?

[P-71 – P-79]

###### a. Study Using HMOs' Medical Records For American Children: The "Verstraeten" Studies

[P-71 – P-76]

###### b. A Congressman's Published Views on the CDC Study

[P-76 – P-77]

###### c. Epidemiological Studies from Other Developed Countries

[P-77 – P-79]

14.	<u><i>Studies Establishing Linkages Between Thimerosal Exposure And Adverse Outcomes, Including “Neurodevelopmental Disorders” (“NDDs”) in US Children</i></u>	[P-79 – P-82]
15.	<u><i>Clinical Evidence</i></u>	[P-82 – P-88]
16.	<u><i>Review Studies</i></u>	[P-88 – P-90]
17.	<u><i>The FDA’s Review of Thimerosal as a Problematic Preservative</i></u>	[P-90 – P-95]
18.	<u><i>Actions To: Remove Drug Products Containing Added Mercury, Disclose Mercury-related Risks, And Comply With Applicable Laws?</i></u>	[P-95 – P-177]
a.	<b>Introduction</b>	[P-95 – P-105]
	1. <i>The Mandate to Prove Safety</i>	[P-96 – P-97]
	2. <i>The Mandate to Prove Safety and Effectiveness</i>	[P-97 – P-99]
	3. <i>The Enhanced Requirements and Mandates to Prove/ Improve Drug Safety</i>	[P-99 – P-102]
	4. <i>Limits on the Administrative Discretion of the FDA</i>	[P-102 – P-103]
	5. <i>Summary of Current Requirements For Drugs Containing Mercury-Compounds Added At Any Step During Drug Product Manufacture</i>	[P-103 – P-105]
b.	<b>Federal Government’s Actions 1960s To The Present</b>	[P-105 – P-177]
	1. <i>Introduction</i>	[P-105 – P-106]
	2. <i>1973: Changes to the CGMP Regulations for Biological Drug Products</i>	[P-106 – P-107]
	3. <i>1977: Proof of Harm from Thimerosal in Antiseptics and FDA “Recommendations”</i>	[P-107 – P-108]
	4. <i>1982: FDA Review of OTC Topical Uses of Thimerosal Leading to: 1998 Ban on Thimerosal in OTC Topical Products</i>	[P-108]
	5. <i>1997: Food and Drug Administration Modernization Act of 1997: Sec. 413 Food and Drug Administration Study of Mercury Compounds in Drugs and Food</i>	[P-109 – P-110]
	6. <i>1999: Joint Pledge to Remove Thimerosal-containing Vaccines As Soon As Possible</i>	[P-110 – P-111]
	7. <i>1999: Illegally Closed “Lister Hill” Meeting Of Government, Medical and Industry Officials: “NVAC-sponsored Workshop on Thimerosal Vaccines”</i>	[P-111 – P-173]
	i. <i>Day One</i>	[P-111 – P-123]
	ii. <i>Day Two</i>	[P-123 – P-173]
	8. <i>2000: Illegal Closed Meeting of Government, Medical and Industry Officials. “Scientific Review of Vaccine Safety Datalink Information,” June 7-8, 2000, Simpsonwood Retreat Center, Norcross, Georgia</i>	[P-173]
	9. <i>2001: Institute of Medicine’s Committee on “Immunization Safety Review: Thimerosal - Containing Vaccines and Neurodevelopmental Disorders”</i>	[P-173 – P-175]
	10. <i>2002 – 2007: Recent Activities</i>	[P-175 – P-177]
19.	<u><i>Current Reality Regarding Added Mercury Compounds in Drug Products</i></u>	[P-177 – P-188]
a.	<b>Serum Products</b>	[P-177 – P-178]
b.	<b>Vaccine Products</b>	[P-178 – P-184]

1. <i>Vaccines In General</i>	[P-178 – P-182]
2. <i>Influenza Vaccines</i>	[P-182 – P-184]
c. <b>Ophthalmic and Otic Drug Products</b>	[P-184, P-186 – P-187]
d. <b>Nasal Sprays</b>	[P-184 – P-185]
e. <b>Other Products</b>	[P-187 – P-188]
20. <b><u>U.S. Government’s Defenses for Failing to Ban Thimerosal from Medicine</u></b>	[P-188 – P-438]
a. <b>Introduction</b>	[P-188 – P-190]
b. <b>Defenses Asserted by the FDA</b>	[P-190 – P-213]
c. <b>Petitioners’ Approach to the FDA’s Assertions</b>	[P-213 – P-214]
d. <b>Petitioners’ Assessment of Government’s Defenses for Allowing Mercury In Drugs</b>	[P-214 – P-438]
21. <b><u>Summary Of “Safety Not Proven”</u></b>	[P-438 – P-439]
<b>C. <u>Violation Of Constitutional Right To Bodily Integrity</u></b>	[P-439 – P-442]
<b>D. <u>Violation Of Other Civil Rights And Societal Tenants</u></b>	[P-442 – P-444]
<b>E. <u>Summary</u></b>	[P-444 – P-446]
<b>IV. <u>Environmental Impact</u></b>	[P-446]
<b>V. <u>CERTIFICATION</u></b>	[P-446]
<b><u>Other CoMeD Representatives Filing This Citizen Petition</u></b>	[P-447]

## REFERENCES LIST: FOOTNOTE AND IN-TEXT

Document Citations	Cited as <sup>1</sup> :
McMillan DE. Risk assessment for neurobehavioral toxicity. <i>Environmental Health Perspectives</i> 1987; 76: 155-161.	Fn-001
Arctic Council Action Plan to Eliminate Pollution of the Arctic (ACAP): Russian Federal Service for Environmental, Technological and Atomic Supervision, Danish Environmental Protection Agency. <i>Assessment of Mercury Releases from the Russian Federation</i> . Copenhagen, Denmark: Danish Ministry of the Environment, 2005.	Fn-002
<a href="http://www.epa.gov/ttn/atw/hlthef/mercury.html">http://www.epa.gov/ttn/atw/hlthef/mercury.html</a>	Fn-003
Gosselin NH, Brunet RC, Carrier GT, LeBouchard M, Feeley M. Reconstruction of methylmercury intakes in indigenous populations from biomarker data. <i>J Exposure Anal Environ Epidemiol</i> 2006, 16(1): 19-29. [E-pub 29 June 2005 (www.nature.com/jea): 1-11. Erratum in: <i>J Expo Sci Environ Epidemiol</i> . 2006 Jul; 16(4): 386.]	Fn-004(a), Fn-260(a), Fn-299(a), Fn-302, Fn-337
Canuel R, Boucher de Grosbois S, Atikessé L, Marc Lucotte M, Arp P, Ritchie C, Mergler D, Chan HM, Amyot M, Anderson R. New Evidence on Variations of Human Body Burden of Methylmercury from Fish Consumption. <i>Environmental Health Perspectives</i> 2006 Feb; 114(2): 302-306.	Fn-004(b), Fn-260(b), Fn-299(b), Fn-338
Gilbert SG, Grant-Webster KS. Neurobehavioral effects of developmental methylmercury exposure. <i>Environmental Health Perspectives</i> 1995; 103(Suppl 6): 135-142.	Fn-004(c), Fn-261(a), Fn-299(c)
Rice DC, Evangelista de Duffard AM, Duffard R, et al. Lessons for neurotoxicology from selected model compounds: SGOMSEC joint report. <i>Environmental Health Perspectives</i> 1996; 104(Suppl 2): 205-215.	Fn-004(d), Fn-261(b), Fn-299(d)
Grandjean P, Budtz-Jorgensen E. Total imprecision of exposure biomarkers: implications for calculating exposure limits. <i>Am J Ind Med</i> . 2007 May 9; [Epub ahead of print]	Fn-004(e), Fn-260(c), Fn-299(e), Fn-336
Tryphonas L, Nielsen NO. Pathology of chronic alkylmercurial poisoning in swine,“ <i>American Journal of Veterinary Research</i> . 1973; 34(3): 379-392.	Fn-005, Fn-060, Fn-191, Fn-196, Fn-300
<b>21 C.F.R. Sec. 7.3 Definitions</b> [recall classes]	Fn-006
Hornig M, Chian D, Lipkin WI. Neurotoxic effects of postnatal Thimerosal are mouse strain dependent. <i>Mol Psychiatry</i> 2004; 9: 833-845	Fn-007, Fn-202
Havarinasab S, Hultman P. Alteration of the spontaneous systemic autoimmune disease in (NZB x NZW)F1 mice by treatment with thimerosal (ethyl mercury). <i>Toxicol Appl Pharmacol</i> 2006; 214: 43-54.	Fn-008, Fn-015(a), Fn-223(a)
Parran DK, Barker A, Ehrich M. Effects of thimerosal on NGF signal transduction and cell death in neuroblastoma cells. <i>Toxicol Sci</i> 2005; 86: 132-140.	Fn-009(a), Fn-246, Fn-285, Fn-287, Fn-324, Fn-334
Parry JM. The use of yeast cultures for the detection of environmental mutagens using a fluctuation test. <i>Mutat Res</i> 1977; 46: 165-176	Fn-009(b), Fn-083
Leong CC, Syed NI, Lorscheider FL. Retrograde degeneration of neurite membrane structural integrity of nerve growth cones following in vitro exposure to mercury. <i>Neuroreport</i> 2001; 12: 733-737	Fn-010,
Owhadi H, Boulos A. Bistable equilibrium points of mercury body burden. <i>Quantitative Biology</i> 14 July 2006 <a href="http://aps.arxiv.org/abs/q-bio/0606024">http://aps.arxiv.org/abs/q-bio/0606024</a>	Fn-011(a), Fn-341(b),
Sugita M. The biological half-time of heavy metals. The existence of a third, “slowest” component. <i>Int Arch Occup Environ Health</i> 1978; 41(1): 25-40	Fn-011(b), Fn-118(a), Fn-192, Fn-198, Fn-263, Fn-291, Fn-293, Fn-341(a)
Aschner M, Aschner JL. Mercury neurotoxicity: mechanisms of blood-brain barrier transport. <i>Neurosci Biobehav Rev</i> . 1990; 14(2): 169-176.	Fn-011(c), Fn-118(b), Fn-341(c)
<b>21 C.F.R. “Sec. 610.15 Constituent materials &amp; 21 C.F.R. §610.15(a)</b>	Fn-012, Fn-014, Fn-018, Fn-179, Fn-227
Kevan Berkovitz, a Minor by his Parents and Natural Guardians Arthur Berkovitz, et ux., et al., Petitioners, v. UNITED STATES. Case No. 87-498. 108 S.Ct. 1954, 100 L.Ed.2d 531, 56 USL W 4549. (Cite as: 486 U.S. 531, 108 S.Ct. 1954.)	Fn-013, Fn-174, Fn-180, Fn-203, Fn-204, Fn-219, Fn-224, Fn-229, Fn-230, Fn-268, Fn-333
Havarinasab S, Lambertsson L, Qvarnstrom J, et al. Dose-response study of thimerosal-induced murine systemic autoimmunity. <i>Toxicol Appl Pharmacol</i> 2004; 194: 169-179	Fn-015(b), Fn-233(b)
Havarinasab S, Haggqvist B, Bjorn E, et al. Immunosuppressive and autoimmune effects of thimerosal in mice. <i>Toxicol Appl Pharmacol</i> 2005; 204: 109-121	Fn-015(c), Fn-233(c)
Agrawal A, Kaushal P, Agrawal S, et al. Thimerosal induces TH2 responses via influencing cytokine secretion by human dendritic cells. <i>J Leukoc Biol</i> 2007; 81: 474-482	Fn-015(d), Fn-233(d)
Goth SR, Chu RA, Gregg JP, et al. Uncoupling of ATP-mediated calcium signaling and dysregulated interleukine-6 secretion in dendritic cells by nanomolar Thimerosal. <i>Environ Health Perspect</i> 2006; 114: 1083-1091	Fn-015(e), Fn-233(e)
<b>21 U.S.C. § 321(g)(1)</b>	Fn-016

<sup>1</sup> **Abbreviations:** Fn-*nnn* is used for footnote *nnn* with a following parenthesized letter when a footnote cites multiple articles. S-*nn.mmm* is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
21 U.S.C. § 321(u)	Fn-017
Kharasch, M. S. 1928. <i>Alkyl Mercuric Sulphur Compound and Process for Producing it</i> . US Patent 1,672,615	Fn-019,
Smithburn KC, Kempf GF, Zerfas LG, Gilman, LH. Meningococcal meningitis: a clinical study of one-hundred and forty-four epidemic cases. <i>J. Am Med Assoc</i> 1930; <b>95</b> : 776-780	Fn-020
May 2003, Subcommittee on Human Rights & Wellness of the Government Reform Committee, US House of Representatives (Chairman Dan Burton – following a 3 year congressional investigation), “Mercury in Medicine – Taking Unnecessary Risks” pgs 1-80	Fn-021, Fn-022, Fn-024, Fn-027, Fn-110, Fn-125
Powell HM, Jamieson WA. Merthiolate as a germicide. <i>Am J Hyg</i> 1931; <b>13</b> : 296-310	Fn-023
Kharasch, M. S. 1932. <i>Stabilized Bactericide and Process of Stabilizing it</i> . US Patent 1,862,896	Fn-025
Kharasch, M. S. 1935. <i>Stabilized Organo-Meruri-Sulphur Compounds</i> . US Patent 2,012,820	Fn-026
Salle AJ, Lazarus AS. A comparison of the resistance of bacteria and embryonic tissue to germicidal substances. <i>Proc Soc Exp Biol Med</i> 1935; <b>32</b> : 665-667	Fn-028
Cummins SL. Merthiolate in the treatment of tuberculosis. <i>Lancet</i> 1937; <b>230</b> : 962-963	Fn-029
Welch H. Mechanism of the toxic action of germicides on whole blood measured the loss of phagocytic activity of leukocytes. <i>J Immunol</i> 1939; <b>37</b> : 525-533	Fn-030
Welch H, Hunter AC. Method for determining the effect of chemical antiseptics on phagocytosis. <i>Am J Public Health</i> 1940; <b>30</b> : 129-137	Fn-031
Kinsella RA. Chemotherapy of bacterial endocarditis. <i>Ann Intern Med</i> 1941; <b>15</b> : 982-986	Fn-032
Kendrick DB. <i>Blood Program in World War II</i> . Washington, DC: Office of the Surgeon General, Department of the Army, 1989	Fn-033, Fn-034, Fn-037, Fn-0441
Anonymous. Mercurials as “preservatives.” <i>JAMA</i> 1943; <b>122</b> : 1253	Fn-035, Fn-270, Fn-326
Ellis FA. Possible danger in use of Merthiolate ophthalmic ointment. <i>Arch Ophthalmol</i> 1943; <b>30</b> : 265-266	Fn-036
Ellis FA. The sensitizing factor in merthiolate. <i>Journal of Allergy</i> 1947; <b>18</b> : 212-213	Fn-038
Cogswell HD, Shown A. Reaction following the use of tincture of Merthiolate. <i>Ariz Med</i> 1948; <b>5</b> : 42-43	Fn-039
Morton HE, North LL, Engley FB. The bacteriostatic and bactericidal action of some mercurial compounds on hemolytic streptococci. <i>JAMA</i> 1948; <b>136</b> : 37-41	Fn-040, Fn-271, Fn-327
Engley FB. Evaluation of mercurial compounds as antiseptics. <i>Annals of the New York Academy of Sciences</i> 1950; <b>53</b> : 197-206	Fn-042, Fn-272, Fn-301(a), Fn-328, S-20(s).004
Davison EO, Powell HM, MacFarlane JO, et al. The preservation of poliomyelitis vaccine with stabilized merthiolate. <i>Journal of Laboratory and Clinical Medicine</i> 1956; <b>47</b> : 8-19	Fn-043
Engley FB. Mercurials as disinfectants – evaluation of mercurial antimicrobial action and comparative toxicity for skin tissue cells. <i>Soap &amp; Chemical Specialties</i> 1956, pgs. 199, 201, 203, 205, 223-5	Fn-044
47 FR 436, Jan 5, 1982.	Fn-045, Fn-182
63 FR 19799-19802, April 22, 1998	Fn-046, Fn-183
63 FR 68775-68777, December 14, 1998	Fn-047, Fn-184
64 FR 23083-23086, April 29, 1999	Fn-048, Fn-185
64 FR 63323-63324, November 19, 1999	Fn-049, Fn-186
<i>Morbidity Mortality Weekly Report</i> , <b>48</b> (26), pages 563-565 (July 09, 1999 [original press release issued on July 7, 1999]) – can be found by searching the MMWR subsite ( <a href="http://www.cdc.gov/mmwr/">http://www.cdc.gov/mmwr/</a> )	Fn-050, Fn-188, Fn-248
Sass JE. Histological and cytological studies of ethyl mercury phosphate poisoning in corn seedlings. <i>Phytopathologia</i> 1937; <b>27</b> : 95-99	Fn-051
Trakhtenberg IM. The toxicity of vapors of organic mercury compounds (ethylmercuric phosphate and ethylmercuric chloride) in acute and chronic intoxication (experimental data). <i>Gigiena Sanitariya</i> 1950; <b>6</b> :13-17	Fn-052
Oliver WT, Platonow N. Studies on the pharmacology of N-(ethylmercuri)-p-toluenesulfonanilide. <i>Am J Vet Res.</i> 1960; <b>21</b> : 906-916	Fn-053
Birbin SS, Alekseeva A, Bulatov AA. The poisoning of swine treated with Granosan. <i>Veterinariya</i> 1968; <b>8</b> : 60-61	Fn-054
Tishkov AL, Saley P, Vitkalov VP. Poultry poisoning with Granosan. <i>Veterinariya</i> 1968; <b>45</b> : 58	Fn-055
Oharazawa H. Effect of ethylmercuric phosphate in the pregnant mouse on chromosome abnormalities and fetal malformation. <i>J Jpn Obstet Gynecol.</i> 1968; <b>20</b> : 1479-1487	Fn-056
Goncharuk GA. Experimental investigation of the effect of organomercury pesticides on generative functions and on progeny. <i>Hyg Sanit.</i> 1971; <b>36</b> : 40-43	Fn-057, Fn-345

<sup>1</sup> Abbreviations: Fn-*nnn* is used for footnote *nnn* with a following parenthesized letter when a footnote cites multiple articles. S-*nn.mmm* is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Spann JW, Health RG, Kreitzer JF. Ethyl mercury p-toluene sulfonanilide: lethal and reproductive effects on pheasants. <i>Science</i> 1972; 175: 328-331	Fn-058
Mukai N. An experimental study of alkylmercurial encephalopathy. <i>Acta Neuropathol (Berl)</i> 1972; 22: 102-109	Fn-059
Wright FC, Palmer JS, Riner JC. Retention of mercury in tissues of cattle and sheep given oral doses of mercurial fungicide, Ceresan M. <i>J Agric Food Chem</i> . 1973; 21: 614-615	Fn-061
Saley PL. Evaluation of slaughter products from Granosan-poisoned animals. <i>Veterinariya</i> 1970; 46: 102-103	Fn-062
Yonaha M, Ishikura S, Uchiyama M. Toxicity of organic mercury compounds. III. Uptake and retention of mercury in several organs of mice by long term exposure of alkoxyethylmercury compounds. <i>Chem Pharm Bull (Tokyo)</i> 1975; 23: 1718-1725	Fn-063
D'Itri PA, D'Itri FM. <b>Mercury Contamination: A Human Tragedy</b> . New York, NY: John Wiley & Sons, 1977	Fn-064
Damluji S. Mercurial poisoning with the fungicide Granosan M. <i>J Fac Med Baghdad</i> 1962; 4: 83-103	Fn-065(a)
Dahhan SS, Orgaly H. Mercury poisoning and electrocardiographic changes. <i>J Fac Med Baghdad</i> 1962; 4: 104-111	Fn-065(b)
Al-Kassab S, Saigh N. Mercury and calcium excretion in chronic poisoning with organic mercury compounds. <i>J Fac Med Baghdad</i> 1962; 4: 118-123	Fn-065(c)
Jalili MA, Abbasi AH. Poisoning by ethyl mercury toluene sulphonanilide. <i>Br J Ind Med</i> . 1961; 18: 303-308	Fn-065(d), Fn-066
Shustov VIA Syganova SI. Clinical aspects of subacute intoxication with Granosan. <i>Kazansk Med Zh</i> . 1970; 2: 78-79	Fn-067(a)
Nizov AA, Shestakov HM Contribution to the clinical aspects of Granosan poisoning. <i>Sov Med</i> . 1971; 11: 150-152	Fn-067(b)
Mukhtarova ND. Late sequelae of nervous system pathology caused by the action of low concentrations of ethyl mercury chloride. <i>Gig Tr Prof Zabol</i> . 1977; (3): 4-7	Fn-068
Cinca I, Dumitrescu I, Onaca P, et al. Accidental ethyl mercury poisoning with nervous system, skeletal muscle, and myocardium injury. <i>J Neurol Neurosurg Psychiatry</i> 1980; 43: 143-149	Fn-069
Zhang J. Clinical observations in ethyl mercury chloride poisoning. <i>Am J Ind Med</i> . 1984; 5: 251-258	Fn-070
Derban LKA. Outbreak of food poisoning due to alkyl-mercury fungicide on southern Ghana state farm. <i>Arch Environ Health</i> 1974; 28: 49-52	Fn-071
Bakulina AV. The effect of subacute Granosan poisoning on the progeny. <i>Sovet Med</i> . 1968; 31:60-63	Fn-072
Mal'tsev PV. Granosan poisoning in children. <i>Feldsher Akush</i> . 1972; 37: 14-16	Fn-073(a), Fn-075
Ramanuskayte MB, Baublis PP. Clinical picture and treatment of organomercurial pesticide poisoning in children. <i>Pediatriya Moscow</i> 1973; 35: 56-60	Fn-073(b), Fn-074
Nelson EA, Gottshall RY. Enhanced toxicity for mice of pertussis vaccines when preserved with Merthiolate. <i>Appl Microbiol</i> . 1967; 15: 590-593	Fn-076
Suzuki T, Takemoto T, Kashiwazaki H, et al. Chapter 12 – Metabolic fate of ethylmercury salts in man and animal. In: <b>Mercury, Mercurials and Mercaptans</b> . Miller MW, Clarkson TW (eds). Springfield, IL: Charles C. Thompson Publisher, 1973, pgs. 209-232	Fn-077
Itoi M, Ishii Y, Kaneko N. Teratogenicities of antiviral ophthalmics on experimental animals. <i>Jpn J Clin Ophthalmol</i> . 1972; 26: 631-640	Fn-078
Axton JH. Six cases of poisoning after a parenteral organic mercurial compound (Merthiolate). <i>Postgrad Med J</i> . 1972; 48: 417-421	Fn-079
Gasset AR, Itoi M, Ishii Y, et al. Teratogenicities of ophthalmic drugs. II. Teratogenicities and accumulation of Thimerosal. <i>Arch Ophthalmol</i> . 1975; 93: 52-55	Fn-080
Blair AMJN, Clark B, Clarke AJ, et al. Tissue concentrations of mercury after chronic dosing of squirrel monkeys with thiomersal. <i>Toxicology</i> 1975; 3: 171-176	Fn-081
Van Horn DL, Edelhauser HF, Prodanovich G, et al. Effect of ophthalmic preservative Thimerosal on rabbit and human corneal endothelium. <i>Invest Ophthalmol Vis Sci</i> . 1977; 16: 273-280	Fn-082
Fagan DG, Pritchard JS, Clarkson TW. Organ mercury levels in infants with omphalocoeles treated with organic mercurial antiseptic. <i>Arch Dis Child</i> . 1977; 52: 962-964	Fn-084
Heinonen OP, Slone D, Shapiro S. <b>Birth Defects and Drugs in Pregnancy</b> . Littleton, Massachusetts: Publishing Sciences Group, Inc., 1977	Fn-085, Fn-181
Anundi I, Hogberg J, Stead AH. Glutathione depletion in isolated hepatocytes: its relation to lipid peroxidation and cell damage. <i>Acta Pharmacol Toxicol (Copenh)</i> . 1979; 45: 45-51	Fn-086
Heyworth MF, Truelove SC. Problems associated with the use of merthiolate as a preservative in anti-lymphocytic globulin. <i>Toxicology</i> 1979; 12: 325-333	Fn-087
Matheson DS, Clarkson TW, Gelfand EW. Mercury toxicity (acrodynea) induced by long-term injection of gammaglobulin. <i>J Pediatr</i> 1980; 97: 153-155	Fn-088
Forstrom L, Hannuksela M, Kousa M, et al. Merthiolate hypersensitivity and vaccination. <i>Contact Dermatitis</i> 1980; 6: 241-245	Fn-089
<sup>1</sup> <b>Abbreviations:</b> Fn- <i>nnn</i> is used for footnote <i>nnn</i> with a following parenthesized letter when a footnote cites multiple articles. S- <i>nn.mmm</i> is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.	

Document Citations	Cited as <sup>1</sup> :
Heyworth MF. Clinical experience with antilymphocyte serum. <i>Immunol Rev.</i> 1982; 65: 79-97	Fn-090
Takahashi N. Cytotoxicity of mercurial preservatives in cell culture. <i>Ophthalmic Res.</i> 1982; 14: 63-69	Fn-091
Anonymous. Mercury poisoning in child treated with aqueous merthiolate. <i>Md State Med J.</i> 1983; 32: 523	Fn-092
Kravchenko AT, Dzagurov SG, Chervonskaia GP. Evaluation of the toxic action of prophylactic and therapeutic preparations on cell cultures. III. The detection of toxic properties in medical biological preparations by the degree of cell damage in the L132 continuous cell line. <i>Zh Mikrobiol Epidemiol Immunobiol</i> 1983; (3): 87-92	Fn-093
Hekkens FE, Polak-Vogelzang AA, Kreeftenberg JG. The antimicrobial effectiveness of some preservatives in inactivated human vaccines. <i>Journal of Biological Standardization</i> 1983; 9: 277-285	Fn-094, Fn-274, Fn-330
Rohyans J, Walson PD, Wood GA, et al. Mercury toxicity following merthiolate ear irrigations. <i>J Pediatr</i> 1984; 104: 311-313	Fn-095, Fn-305
Stetler HC, Garbe PL, Dwyer DM, et al. Outbreaks of group A streptococcal abscesses following diphtheria-tetanus toxoid-pertussis vaccination. <i>Pediatrics</i> 1985; 75: 299-303	Fn-096, Fn-269, Fn-298, Fn-325
Winship KA. Organic mercury compounds and their toxicity. <i>Adverse Drug React Acute Poisoning Rev</i> 1986; 5: 141-180	Fn-097
Cox NH, Forsyth A. Thiomersal allergy and vaccination reactions. <i>Contact Dermatitis</i> 1988; 18: 229-233	Fn-098
Digar A, Sensharma GC, Samal SN. Lethality and teratogenicity of organic mercury (Thimerosal) on the chick embryo. <i>J Anat Soc India</i> 1987; 36: 153-159	Fn-099
Simmons PA, Clough SR, Teagle RH, et al. Toxic effects of ophthalmic preservatives on cultured rabbit corneal epithelium. <i>Am J Optom Physiol Opt</i> 1988; 65: 867-873	Fn-100
Hakansson B, Linder C, Ohlsson K, et al. The inhibition of granulocyte phagocytosis by various components of nasal drops. <i>Pharmacol Toxicol</i> 1989; 65: 89-91	Fn-101
Hakansson B, Forsgren A, Tegner H, et al. Inhibitory effects of nasal drops components on granulocyte chemotaxis. <i>Pharmacol Toxicol</i> 1989; 64: 321-323	Fn-102
Withrow TJ, Brown NT, Hitchins VM, et al. Cytotoxicity and mutagenicity of ophthalmic solution preservatives and UVA radiation in L5178Y cells. <i>Photochem Photobiol</i> 1989; 50: 385-389	Fn-103
Nascimento LO, Lorenzi Filho G, Rocha Ados S. Lethal mercury poisoning due to ingestion of merthiolate. <i>Rev Hosp Clin Fac Med Sao Paulo</i> 1990; 45: 216-218	Fn-104
Aberer W. Topical mercury should be banned--dangerous, outmoded, but still popular. <i>J Am Acad Dermatol</i> 1991; 24: 150-151	Fn-105
Seal D, Ficker L, Wright P, et al. The case against thiomersal. <i>Lancet</i> 1991; 338: 315-316	Fn-106
Merck Vaccine Task Force. Memo 1991	Fn-107
Lowe I, Southern J. The antimicrobial activity of phenoxyethanol in vaccines. <i>Lett Appl Microbiol</i> 1994; 18: 115-116	Fn-108, Fn-275, Fn-331
Lowell JA, Burgess S, Shenoy S, et al. Mercury poisoning associated with hepatitis-B immunoglobulin. <i>Lancet</i> 1996; 347: 480	Fn-109
Redwood L, Bernard S, Brown D. Predicted mercury concentrations in hair from infant immunizations: cause for concern. <i>Neurotoxicology</i> 2001; 22: 691-697	Fn-111, Fn-261(c), Fn-303
Marques RC, Dórea JG, Fonseca MF, et al. Hair mercury in breast-fed infants exposed to thimerosal-preserved vaccines. <i>Eur J Pediatr</i> 2007 Sep; 166(9): 935-941. Epub ahead of print on 20 Jan 2007	Fn-112, Fn-199
Marques RC, Dórea JG, Manzatto AG et al. Time of perinatal immunization, Thimerosal exposure and neurodevelopment at 6 months in breastfed infants. <i>Acta Paediatr</i> 2007 Jun; 96(6): 864-868. Epub 2007 Apr 27	Fn-113
Stajich GV, Lopez GP, Harry SW, et al. Iatrogenic exposure to mercury after hepatitis B vaccination in preterm infants. <i>J Pediatr</i> 2000; 136: 679-681	Fn-114
Centers for Disease Control and Prevention. Blood and hair mercury levels in young children and women of childbearing age - United States, 1999. <i>MMWR</i> 2001; 50: 140-143	Fn-115
Centers for Disease Control and Prevention. Case definitions for chemical poisoning. <i>MMWR</i> 2005; 54: 1-25	Fn-116
Burbacher TM, et al. Comparison of blood and brain mercury levels in infant monkeys exposed to methylmercury or vaccines containing Thimerosal. <i>Environ Health Persp</i> 2005; 113(8): 1015-1021	Fn-117, Fn-197, Fn-201, Fn-288, Fn-292, Fn-294, Fn-340
Charleston JS, et al. Changes in the number of astrocytes and microglia in the thalamus of the monkey <i>Macaca fascicularis</i> following long-term subclinical methylmercury exposure. <i>Neurotoxicology</i> 1996; 17: 127-138	Fn-119(a), Fn-121(a)
Charleston JS, et al. Autometallographic determination of inorganic mercury distribution in the cortex of <i>Macaca fascicularis</i> following long-term subclinical exposure to methylmercury and mercuric chloride. <i>Toxicol Appl Pharmacol</i> 1995; 132: 325-333	Fn-119(b), Fn-121(b)
Charleston JS, et al. Increases in the number of reactive glia in the visual cortex of <i>Macaca fascicularis</i> following subclinical long-term methylmercury exposure. <i>Toxicol Appl Pharmacol</i> 1994; 129: 196-206.	Fn-119(c), Fn-121(c)
Vahter ME, et al. Demethylation of methylmercury in different brain sites of <i>Macaca fascicularis</i> monkeys during long-term subclinical methylmercury exposure. <i>Toxicol Appl Pharmacol</i> 1995; 134: 273-284	Fn-119(d), Fn-120(a)

<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mmm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Vahter M, et al. Speciation of mercury in the primate blood and brain following long-term exposure to methylmercury. <i>Toxicol Appl Pharmacol</i> 1994; 124: 221-229	Fn-119(e), Fn-120(b)
Orct T, Blanus M, Lazarus M, Varnai VM, Kostial K. Comparison of organic and inorganic mercury in suckling rat. <i>J Appl Toxicol</i> 2006; 26: 536-539	Fn-122
FDA, HHS, "Mercury Containing Drug Products for Topical Antimicrobial Over-the-Counter Human Use; Establishment of a Monograph." <i>Federal Register</i> 1982; 47(2): 436-442 (January 5 1982).	Fn-123
16 July 2001 (PowerPoint Slides), Dr. George Lucier, National Toxicology Program, National Institute of Environmental Health Science (NIEHS) presentation, "Comparative Toxicity of Ethyl & Methylmercury" to the Immunization Safety Review Committee of the US National Academy of Sciences	Fn-124
U.S. Office of Special Counsel, 1730 M Street, N.W., Suite 218, Washington, D.C. 20036-4505, "OSC Forwards Public Health Concerns on Vaccines to Congress, ..." For more info visit <a href="http://www.osc.gov">www.osc.gov</a> or call 1-800-872-9855	Fn-126
Special Counsel Scott Bloch's letter to Congress addressed to: "The Honorable Judd Gregg, United States Senate, Chairman, Committee on Health, Education, Labor and Pensions, 428 Dirksen Senate Office Building, Washington, D.C. 20510-6300 and The Honorable Joe Barton, U.S. House of Representatives, Chairman, Committee on Energy and Commerce, 2125 Rayburn House Office Building, Washington, D.C. 20515" [OSC File Nos.: DI-04-1399, et al.]	Fn-127, Fn-239
15 July 2005 (Confidential Letter) Liz Birt, J.D., L.L.M. (former legal counsel to the Government Reform Committee, US House of Representatives) & Jim Moody, J.D. to Lauren Fuller, Chief Investigative Counsel, United States Senate Health, Education, Labor, and Pensions (H.E.L.P.) Committee regarding "Thimerosal Timeline" and "Statement of Criminal Charges."	Fn-128
April 2007 (PowerPoint Presentation) by Dr. Larry Needham, Chief, Organic Analytical Toxicology Branch, National Center for Environmental Health, Centers for Disease Control and Prevention, "Exposure (To Stressors) and Autism Spectrum Disorders" to the Institute of Medicine of the US National Academy of Sciences	Fn-129
29 November 1999 (email) Verstraeten to Davis regarding, "Subject: Thimerosal Analyses"	Fn-130(a)
17 December 1999 (email) Verstraeten to Davis regarding, "Subject: It just won't go away..."	Fn-130(b)
Verstraeten T, Davis R, DeStefano F. Thimerosal VSD study, phase I, update, 02/29/00. Obtained by SafeMinds under FOIA in 2001 ...	Fn-131
Verstraeten T, Davis R, DeStefano F, and the VSD team. "Risk of neurologic and renal impairment associated with thimerosal-containing vaccines," obtained by SafeMinds under FOIA in 2001	Fn-132
Verstraeten T, Davis RL, DeStefano F, et al. Safety of thimerosal-containing vaccines: a two-phased study of computerized health maintenance organization databases. <i>Pediatrics</i> 2003; 112: 1039-1048	Fn-133
Verstraeten T. Thimerosal, the Centers for Disease Control and Prevention, and GlaxoSmithKline. <i>Pediatrics</i> 2004; 113: 932	Fn-134
A copy of the printed Simpsonwood-meeting record & PowerPoint Slides	Fn-135
Congressman Dr. Dave Weldon's Official Letter to Julie Gerberding, Director of the CDC, dated October 31, 2003	Fn-136
Andrews N, Miller E, Grant A, et al. Thimerosal exposure in infants and developmental disorders: a retrospective cohort study in the United kingdom does not support a causal association. <i>Pediatrics</i> 2004; 114: 584-591.	Fn-137(a)
Stehr-Green P, Tull P, Stellfeld M, et al. Autism and thimerosal-containing vaccines: lack of consistent evidence for an association. <i>Am J Prev Med</i> 2003; 25: 101-106	Fn-137(b)
Madsen KM, Lauritsen MB, Pedersen CB, et al. Thimerosal and the occurrence of autism: negative ecological evidence from Danish population-based data. <i>Pediatrics</i> 2003; 112: 604-606	Fn-137(c)
Hviid A, Stellfeld M, Wohlfahrt J, et al. Association between thimerosal-containing vaccine and autism. <i>JAMA</i> 2003; 290: 1763-1766	Fn-137(d)
Fombonne E, Zakarian R, Bennett A, et al. Pervasive developmental disorders in Montreal, Quebec, Canada: prevalence and links with immunizations. <i>Pediatrics</i> 2006; 118: e139-e150	Fn-137(e), Fn-279, Fn-284, Fn-315
Trelka JA, Hooker BS. More on Madsen's analysis. <i>J Am Phys Surg</i> 2004; 9: 101	Fn-138(a)
Bernard S. Association between thimerosal-containing vaccine and autism. <i>JAMA</i> 2004; 291: 180	Fn-138(b)
Rimland B. Association between thimerosal-containing vaccine and autism. <i>JAMA</i> 2004; 291: 180	Fn-138(c)
Blaxill MF. Concerns continue over mercury and autism. <i>Am J Prev Med</i> 2004; 26: 91	Fn-138(d)
Stone J. Editorial-Mercury and autism in the United Kingdom. <i>Med Ver</i> 2007; 4: 1398-1405	Fn-139
King PG (e-mail) to Fombonne E [27 August 2006]: <a href="http://www.mercury-freedrugs.org/docs/060827_PGKsCmmnts_CanadianEpidemioStudy_Pediatrics-Full-b.pdf">http://www.mercury-freedrugs.org/docs/060827_PGKsCmmnts_CanadianEpidemioStudy_Pediatrics-Full-b.pdf</a>	Fn-140
Geier DA, Geier MR. A case series of children with apparent mercury toxic encephalopathies manifesting with clinical symptoms of regressive autistic disorders. <i>J Toxicol Environ Health A</i> 2007; 70: 837-851	Fn-141(a), Fn-357(c)
Geier DA, Geier MR. A meta-analysis epidemiological assessment of neurodevelopmental disorders following vaccines administered from 1994 through 2000 in the United States. <i>Neuro Endocrinol Lett</i> 2006; 27(4): 401-413	Fn-141(b), Fn-253, Fn-318
Geier DA, Geier MR. 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. <i>J Toxicol Environ Health A</i> 2006; 69: 1481-1495	Fn-141(c)

<sup>1</sup> Abbreviations: Fn-*nnn* is used for footnote *nnn* with a following parenthesized letter when a footnote cites multiple articles. S-*nn.mmm* is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Geier DA, Geier MR. An assessment of downward trends in neurodevelopmental disorders in the United States following removal of Thimerosal from childhood vaccines. <i>Med Sci Monit</i> 2006; 12: CR231-CR239	Fn-141(d), Fn-317
Geier DA, Geier MR. Early downward trends in neurodevelopmental disorders following removal of Thimerosal-containing vaccines. <i>J Am Phys Surg</i> 2006; 11: 8-13	Fn-141(e), Fn-316
Geier DA, Geier MR. A two-phased population epidemiological study of the safety of thimerosal-containing vaccines: a follow-up analysis. <i>Med Sci Monit</i> 2005; 11: CR160-CR170	Fn-141(f),
Geier D, Geier MR. Neurodevelopmental disorders following thimerosal-containing childhood immunizations: a follow-up analysis. <i>Int J Toxicol</i> 2004; 23: 369-376	Fn-141(g)
Geier DA, Geier MR. A comparative evaluation of the effects of MMR immunization and mercury doses from thimerosal-containing childhood vaccines on the population prevalence of autism. <i>Med Sci Monit</i> 2004; 10: PI33-PI39	Fn-141(h)
Geier DA, Geier MR. An assessment of the impact of thimerosal on childhood neurodevelopmental disorders. <i>Pediatr Rehabil</i> 2003; 6: 97-102	Fn-141(i)
Geier MR, Geier DA. Neurodevelopmental disorders after thimerosal-containing vaccines: a brief communication. <i>Exp Biol Med (Maywood)</i> 2003; 228: 660-664	Fn-141(j)
Geier MR, Geier DA. Thimerosal in childhood vaccines, neurodevelopment disorders, and heart disease in the United States. <i>J Am Phys Surg</i> 2003; 8: 6-11	Fn-141(k)
Holmes AS, Blaxill MF, Haley BE. Reduced Levels of Mercury in First Baby Haircuts of Autistic Children. <i>Int J Toxicol</i> 2003; 22: 277-285	Fn-142, Fn-148, Fn-200, Fn-261(d), Fn-304, Fn-339
Environmental Working Group. <i>Overloaded? New Science, New Insights about Mercury and Autism in Susceptible Children</i> . Washington, DC: EWG Action Fund, 2004	Fn-143, Fn-157
Counter SA, et al. Elevated blood mercury and neuro-otological observations in children of the Ecuadorian gold mines. <i>J Toxicol Environ Health A</i> 2002; 65: 149-163	Fn-144
Rury J (Thesis). Links between environmental mercury special education and autism in Louisiana. Department of Environmental Studies, Graduate Faculty of the Louisiana State University and Agricultural and Mechanical College, May 2006	Fn-145(a)
Palmer RF, et al. Environmental mercury release, special education rates, and autism disorder: an ecological study of Texas. <i>Health Place</i> 2006; 12: 203-209	Fn-145(b)
Windham GC, et al. Autism spectrum disorders in relation to distribution of hazardous air pollutants in the San Francisco Bay area. <i>Environ Health Perspect</i> 2006; 114: 1438-1444	Fn-145(c), Fn-146
Bradstreet J, Geier DA, Kartzinel JJ, et al. A case-control study of mercury body-burden in children with autistic spectrum disorders. <i>J Am Phys Surg</i> 2003; 8: 76-79	Fn-147
Institute of Medicine (IOM) meeting held at the National Academy of Sciences in Washington, DC on February 9, 2004	Fn-149
Adams JB, Romdalvik J, Ramanujam VM, et al. Mercury, lead, and zinc in baby teeth of children with autism versus controls. <i>J Toxicol Environ Health A</i> . 2007; 70: 1046-1051	Fn-150
Nataf R, et al. Porphyrinuria in childhood autistic disorder: implications for environmental toxicity. <i>Toxicol Appl Pharmacol</i> 2006; 214: 99-108	Fn-151(a), Fn-195(a), Fn-222(a), Fn-265(a), Fn-357(a)
Geier DA, Geier MR. A prospective assessment of porphyrins in autistic disorders: a potential marker for heavy metal exposure <i>Neurotox Res</i> 2006; 10: 57-64	Fn-151(b), Fn-195(b), Fn-222(b), Fn-265(b), Fn-357(b)
Vojdani A, Pangborn JB, Vojdani E, et al. Infections, toxic chemicals and dietary peptides binding to lymphocyte receptors and tissue enzymes are major instigators of autoimmunity in autism. <i>Int J Immunopathol Pharmacol</i> 2003; 16(3): 189-199	Fn-152
Deth RC, Waly M. <i>How genetic risks combine with Thimerosal to inhibit methionine synthase and cause autism</i> . Fall DAN! TM Conference 2004 (October 1-3), 161-174	Fn-153
Walker SJ, Segal J, Aschner M. Cultured lymphocytes from autistic children and non-autistic siblings up-regulate heat shock protein RNA in response to Thimerosal challenge. <i>Neurotoxicology</i> 2006; 27: 685-692	Fn-154
James SJ, et al. Thimerosal neurotoxicity is associated with glutathione depletion: protection with glutathione precursors. <i>Neurotoxicology</i> 2005; 26: 1-8	Fn-155, Fn-156(a), S-10.023
Clarkson TW, Nordberg GF, Sager PR. Reproductive and developmental toxicity of metals. <i>Scand J Work Environ Health</i> 1985; 11: 145-154	Fn-156(b), S-10.106
Geier DA, Geier MR. A clinical and laboratory evaluation of methionine cycle-transsulfuration and androgen pathway markers in children with autistic disorders. <i>Horm Res</i> 2006; 66: 182-188	Fn-158(a)
James SJ, et al. Metabolic biomarkers of increased oxidative stress and impaired methylation capacity in children with autism. <i>Am J Clin Nutr</i> 2004; 80: 1611-1617	Fn-158(b)
James SJ, et al. Metabolic endophenotype and related genotypes are associated with oxidative stress in children with autism. <i>Am J Med Genet B Neuropsychiatr Genet</i> 2006; 141: 947-956	Fn-158(c), Fn-159(a)

<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mmm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Waring RH, Klovra LV. Sulphur metabolism in autism. <i>J Nutr Environ Med</i> 2000; 10: 25-32	Fn-158(d)
Williams TA, Mars AE, Buyske SG, et al. Risk of autistic disorder in affected offspring of mothers with a glutathione S-transferase P1 haplotype. <i>Arch Pediatr Adolesc Med</i> 2007; 161: 356-361	Fn-159(b)
Serajee FJ, et al. Polymorphisms in xenobiotic metabolism genes and autism. <i>J Child Neurol</i> 2004; 19: 413-417	Fn-159(c)
Buyske S, et al. Analysis of case-parent trios at a locus with a deletion allele: association of GSTM1 with autism. <i>BMC Genet</i> 2006; 7: 8	Fn-159(d)
Boris M, et al. Association of 5,10-methylenetetrahydrofolate reductase (MTHFR) gene polymorphisms with autistic spectrum disorders. <i>J Am Phys Surg</i> 2004; 9: 106-108	Fn-159(e)
Faustman EM, et al. Mechanisms underlying children's susceptibility to environmental toxicants. <i>Environ Health Perspect</i> 2000; 108: S13-S21	Fn-160
42 FR 52720, September 30, 1977	Fn-161
7 – 19 January 1999 (Emails) – between Ball and Varricchio – 7,000 Thimerosal Reaction Reports	Fn-162
28 June 1999 (Email) – Esber of the FDA – Summarizing that the Mercury from Thimerosal-containing Vaccines Exceeds All Safety Guidelines	Fn-163
29 June 1999 (Email) – Patriarca of the FDA – Asleep at the Switch & Interim Plan Re: Thimerosal	Fn-164
2 July 1999 (Email) – Ruth Etzel on Thimerosal	Fn-165
2 July 1999 (Email – Confidential) – Peter Patriarca to Lawrence Bachorik on Thimerosal	Fn-166
11-12 August 1999 (Confidential Transcript) of “The National Vaccine Advisory Committee Sponsored Workshop on Thimerosal in Vaccines” convened by the US Department of Health and Human Services, the Public Health Service, and the Centers for Disease Control and Prevention (National Institutes of Health, Lister Hill Auditorium, Bethesda, Maryland)	Fn-167, Fn-189, Fn-276, Fn-332
FR 2000; 65(54): 14997-14998	Fn-168
31 August 2001, National Toxicology Program, National Institutes of Health, National Toxicology Program Chemical Repository Information Regarding Thimerosal	Fn-169
22-Dec-1999 Lilly & Company Material Safety Datasheet on Thimerosal	Fn-170(a)
30-Sept-2001 – Gihon Laboratories Material Safety Datasheet on Thimerosal	Fn-170(b)
1-Sept-1993 – Lilly & Company Material Safety Datasheet on Thimerosal	Fn-170(c)
28-July-2003 – Merck Material Safety Datasheet on Thimerosal	Fn-170(d)
21 U.S.C. “Sec. 351. Adulterated drugs and devices ... (a) ... (2) ... (B) ...” or 21 U.S.C. Sec. 351(a)(2)(B) or 21 U.S.C. § 351(a)(2)(B)	Fn-171, En-175, Fn-358
FR 434: 5014 and following (September 29, 1978)	Fn-172
FR 38: 32048, (Nov. 20, 1973)	Fn-173
21 U.S.C. Sec. 331 Prohibited acts	Fn-176
21 U.S.C. Sec. 333 Penalties	Fn-177
42 U.S.C. Sec. 300aa-27(a)(2)	Fn-178
<a href="http://www.fda.gov/po/modactchart/modact97fimi.html">http://www.fda.gov/po/modactchart/modact97fimi.html</a> , last visited on 15 June 2007	Fn-187
	Fn-190
Aventis Pasteur, Inc, inactivated “Thimerosal preserved” avian influenza vaccine approved on April 19, 2007.	Fn-193(a)
ID Biomedical Corporation of Quebec (IDB), a subsidiary of GlaxoSmithKline, inactivated “Thimerosal preserved” human influenza vaccine, FluLaval®, approved October 5, 2006	Fn-193(b), Fn-194(b)
GlaxoSmithKline, inactivated “trace Thimerosal” human influenza vaccine, Fluarix®, approved August 31, 2005	Fn-194(a)
<a href="http://www.iom.edu/CMS/3793/4705/4717.aspx">http://www.iom.edu/CMS/3793/4705/4717.aspx</a> , last visited June 23, 2007	Fn-205
Transcript of the closed session of the organizational meeting of the “IMMUNIZATION SAFETY REVIEW COMMITTEE,” National Academy of Sciences, Institute of Medicine, held on 12 January 2001 at the National Academies Building, 2101 Constitution Avenue, NW, Washington, DC. The US CDC contracted for, and set the boundary framework and constraints for, this committee	Fn-206
	Fn-207
<a href="http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5606a1.htm">http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5606a1.htm</a>	Fn-208, Fn-231, Fn-244, Fn-258
<a href="http://www.fda.gov/cber/vaccine/thimerosal.htm">http://www.fda.gov/cber/vaccine/thimerosal.htm</a>	Fn-209
	Fn-210

<sup>1</sup> **Abbreviations:** Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mmm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Jefferson T. Influenza vaccination: Policy versus evidence. <i>BMJ (British Medical Journal)</i> 2006 October 28; 333: 912-915	Fn-211, Fn-214, Fn-267(b), Fn-349(b), Fn-351(b)
Geier DA, King PG, Geier MR. Influenza Vaccine: Review of effectiveness of the U.S. immunization program, and policy considerations. <i>JAPS (Journal of American Physicians and Surgeons)</i> 2006 Fall; 11(3): 69-74	Fn-212, Fn-215, Fn-250, Fn-267(a), Fn-281, Fn-321, Fn-42, Fn-346, Fn-349(a), Fn-351(a)
Cannell JJ, R. Vieth R, Umhau JC, Holick MF, Grant WB, Madronich S, Garland CF, Giovannucci E. Epidemic influenza and vitamin D. <i>Epidemiol. Infect.</i> 2006 Dec; 134(6): 1129-1140	Fn-213
<a href="http://medical-dictionary.thefreedictionary.com/efficacy">http://medical-dictionary.thefreedictionary.com/efficacy</a> -- efficacy /ef-fi-ca-cy/ (ef'i-kah-se) 1. ... 2. the ability of a drug to produce the desired therapeutic effect. Dorland's Medical Dictionary for Health Consumers ...	Fn-216
<a href="http://www.fda.gov/cder/fdama/mercury300.htm">http://www.fda.gov/cder/fdama/mercury300.htm</a> , last visited on 17 June 2007	Fn-217
FDA Public Docket: 2004P-0349/CP1	Fn-218
Paul King et al. v. Michael Leavitt et al, U.S. District Court for the District of Columbia case 1:06CV01357	Fn-220
FDA Public Docket: 2004P-0349/PDN1	Fn-221
21 U.S.C. Sec. 321(bb)	Fn-225
<a href="http://www.vaccines.net/newpage112.htm">http://www.vaccines.net/newpage112.htm</a>	Fn-226, Fn-350
38 FR 32056	Fn-228, Fn-355
<b>Mercury in Medicine – Taking Unnecessary Risks</b> , a report prepared by the staff of the Subcommittee on Human Rights and Wellness, Committee on Government Reform, United States House of Representatives, Chairman Dan Burton, May 2003. [Eighty-one page Adobe "pdf" file] <i>ibid.</i> , page 5 <i>ibid.</i> , page 7 [See also: Fn-021, Fn-022, Fn-024, Fn-027, Fn-110, Fn-125]	Fn-232, Fn-306  Fn-233 Fn-234
Ball LK, Ball R, Pratt RD. An assessment of thimerosal use in childhood vaccines. <i>Pediatrics</i> . 2001 May; 107(5): 1147-1154	Fn-235
Center for Disease Control and Prevention. Thimerosal in vaccines: A joint statement of the American Academy of Pediatrics and the Public Health Service. <i>MMWR</i> 1999 July 9; 48(26): 563-565	Fn-236
	Fn-237
Amin-Zaki L, Majeed MA, Greenwood MR, Elhassani SB, Clarkson TW, Doherty RA. Methylmercury poisoning in the Iraqi suckling infant: a longitudinal study over five years. <i>J Appl Toxicol</i> 1981; 1: 210-214	Fn-238, S-10.097
Bridges CB, Fukuda K, Uyeki TM, Cox NJ, Singleton JA. Prevention and Control of Influenza Recommendations of the Advisory Committee on Immunization Practices (ACIP). <i>MMWR</i> 2002 Apr 12; 51(RR03): 1-31 <i>ibid.</i> , with <u>underlining</u> added for emphasis, "The 2002 recommendations include five principal changes or updates, as follows: ..., <u>influenza vaccination of healthy children aged 6–23 months is encouraged when feasible.</u> ..."	Fn-240, Fn-254, Fn-257, Fn-312  Fn-241
<b>Who Should Get the Influenza (Flu) Vaccine: Interim Recommendations, December 2003.</b> December 16, 2003, as accessed through the CDC "Preventing the Flu" webpage site: "Who Should Be Vaccinated With the Flu Shot This Season ..."	Fn-242, Fn-255
<a href="http://www.fda.gov/fdac/features/2006/506_influenza.html">http://www.fda.gov/fdac/features/2006/506_influenza.html</a> , "Who should get vaccinated? ..."	Fn-243
	Fn-245
	Fn-247
CDC letter to staff of the members of Congress opposing Sec. 219 of H.R. 3043 (Sec. 219 forbids using federal funds for Thimerosal-containing influenza vaccines for children under 3 years of age in the 2008-2009 flu season) – H.R. 3042 passed by more than 60% of members on 19 July 2007 but language is <u>not</u> currently in Senate version	Fn-249
	Fn-251
Ayoub DM, Yazbak FE. Influenza vaccination during pregnancy: A critical assessment of the recommendations of the Advisory Committee on Immunization Practices (ACIP). <i>J Am Phys Surg</i> 2006; 11(1): 41-47	Fn-252, Fn-347
Jefferson T, Smith S, Demicheli V, Harnden A, Rivetti A, Di Pietrantonj C. Assessment of the efficacy and effectiveness of influenza vaccines in healthy children: systematic review. <i>Lancet</i> 2005; 365: 773-780	Fn-256, Fn-282, Fn-320, Fn-349(e), Fn-351(e)
	Fn-259
Burbacher TM, Shen DD, Liberato N, Grant KS, Cernichiari E, Clarkson T. Comparison of blood and brain mercury levels in infant monkeys exposed to methylmercury or vaccines containing thimerosal. <i>Environ Health Perspect.</i> 2005 April 21; 113(4). 36-page draft "pdf" file	Fn-262
	Fn-264
<sup>1</sup> <b>Abbreviations:</b> Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mmm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.	

Document Citations	Cited as <sup>1</sup> :
Geier DA, Geier MR. "A Case Series of Children with Apparent Mercury Toxic Encephalopathies Manifesting with Clinical Symptoms of Regressive Autistic Disorders Autistic Disorders," <i>Journal of Toxicology and Environmental Health, Part A</i> 2007; 70: 837-851	Fn-265(c)
Subcommittee on Human Rights and Wellness, Committee on Government Reform of the House of Representatives, "Mercury in Medicine Report," Washington, DC, as published in the <i>Congressional Record</i> , pgs. E1011-E1030, May 21, 2003	Fn-266, Fn-307, Fn-311
Engley FB. Mercurials as Disinfectants: Evaluation of Mercurial Antimicrobial Action and Comparative Toxicity for Skin Tissue Cells. Chicago, IL: 42nd Mid-Year Meeting of the Chemical Specialties Manufacturer's Association (1956)	Fn-273, Fn-301(b), Fn-329
An 18-page report issued by an Expert Panel to the NIEHS that is titled "Thimerosal Exposure in Pediatric Vaccines: Feasibility of Studies Using Vaccine Safety Datalink and dated on "August 24, 2006," which was issued as the Appendix to a 5-page October 2006 NIEHS report, which is simply titled "Thimerosal Exposure in Pediatric Vaccines" ( <a href="http://www.safeminds.org/pressroom/pres_releases/Thimerosal_Pediatric_Vaccines.pdf">http://www.safeminds.org/pressroom/pres_releases/Thimerosal_Pediatric_Vaccines.pdf</a> )	Fn-277
Appendix A, "Comparison Of: The Characteristics of "Autism" To Those for Mercury Poisoning," in "Thimerosal Causes Mercury Poisoning I RebuttalToNovella'sViews.pdf" as published on the "Documents" web page of the CoMeD web site: <a href="http://www.mercury-freedrugs.org/">http://www.mercury-freedrugs.org/</a>	Fn-278, Fn-319
"Thimerosal Causes Mercury Poisoning X - Link Between Thimerosal and Pervasive Developmental Disorders [Draft Rebuttal to Fombonne et al.'s 'Pervasive Developmental Disorders in Montreal, Quebec, Canada: Prevalence and Links With Immunizations']" posted at: <a href="http://www.mercury-freedrugs.org/docs/060827_PGK'sCmmnts_CanadianEpidemioStudy_Pediatrics-Full-b.pdf">http://www.mercury-freedrugs.org/docs/060827_PGK'sCmmnts_CanadianEpidemioStudy_Pediatrics-Full-b.pdf</a>	Fn-280, Fn-314
Maeda T, Shintani Y, Nakano K, Terashima K, Yamada Y. Failure of inactivated influenza A vaccine to protect healthy children aged 6-24 months. <i>Pediatr Int</i> 2004; 46: 122-125	Fn-283
Al-Saleh I, El-Doush I, Shinwari N, Al-Baradei R. Does low mercury containing skin-lightening cream (Fair & Lovely) affect the kidney, liver, and brain of female mice? <i>Cutaneous &amp; Ocular Tox</i> 2005; 24: 11-29	Fn-286
Clarkson TW. The biological properties and distribution of mercury. <i>Biochem J</i> . 1972 Nov; 130(2): 61P-63P	Fn-289
<a href="http://www.epa.gov/iriswebp/iris/subst/0089.htm">http://www.epa.gov/iriswebp/iris/subst/0089.htm</a>	Fn-290
	Fn-295
2004P-0349/CPI petition's endnote 7, Transcript from the two-day "NATIONAL VACCINE ADVISORY COMMITTEE SPONSORED WORKSHOP ON THIMEROSAL VACCINES," held on August 11-12, 1999, at the National Institutes of Health, Lister Hill Auditorium in Bethesda, Maryland	Fn-296
<i>loc. cit.</i> , Day1, pages 95-96	Fn-297
Merriam-Webster's Medical Dictionary, 1995, page 8, defines "ac-ro-dyn-ia" or an equivalent medical dictionary	Fn-308
Webster's New Universal Unabridged Dictionary, 2001, page 945, column 1, "hy-poth-esis" or an equivalent dictionary	Fn-309
42 U.S.C. Sec. 262(a)(2)(C)	Fn-310
	Fn-313
Bingham M, Copes R. Thimerosal in vaccines Balancing the risks of adverse effects with the risk of vaccine-preventable disease. <i>Drug Safety</i> 2005; 28(2): 89-101	Fn-322, Fn-356(a)
Waly M, Olteanu H, Banerjee R, Choi S-W, Mason JB, Parker BS, Sukumar S, Shim S, Sharma A, Benzecry JM, Power-Charnitsky V-A, Deth RC. IMMEDIATE COMMUNICATION, Activation of methionine synthase by insulin-like growth factor-1 and dopamine: a target for neurodevelopmental toxins and thimerosal. <i>Molecular Psychiatry</i> 2004 January 27: 1-13	Fn-323, Fn-356(b)
	Fn-335
<a href="http://www.trans4mind.com/world-psychology/cryheart.html">http://www.trans4mind.com/world-psychology/cryheart.html</a> . Cry of the Heart The Medical Terror of Vaccinations by Mark Sircus, Chapter 1, "..., so the observed incidence of hepatitis B in the 0 to 1 age group was just 0.001 percent." - Incidence rate < 0.0014%.	Fn-343
	Fn-344
Webster's New Universal Unabridged Dictionary, 2001, page 1967, column 3, bottom to page 1968 column 1, "the-o-ry" or an equivalent dictionary	Fn-348
21 U.S.C. Sec. 331(a):	Fn-352
See <a href="http://www.fda.gov/cber/vaccine/thimerosal.htm#t3">http://www.fda.gov/cber/vaccine/thimerosal.htm#t3</a> -- last visited on June 22, 2007	Fn-353
42 U.S.C. § 1983, "Civil action for deprivation of rights. ..."	Fn-354
Waly M, Olteanu H, Banerjee R, et al. Activation of methionine synthase by insulin-like growth factor-1 and dopamine: a target for neurodevelopmental toxins and Thimerosal. <i>Mol Psychiatry</i> 2004; 9: 358-370	S-10.001
Halsey NA. Limiting infant exposure to thimerosal in vaccines and other sources of mercury. <i>JAMA</i> 1999; 282: 1763-1766	S-10.002
Elferink JG. Thimerosal: a versatile sulfhydryl reagent, calcium mobilizer, and cell function-modulating agent. <i>Gen Pharmacol</i> 1999; 33: 1-6	S-10.003

<sup>1</sup> Abbreviations: Fn-*nnn* is used for footnote *nnn* with a following parenthesized letter when a footnote cites multiple articles. S-*nn.mmm* is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Kwack SJ, Choi Y, Song C, et al. Effects of Thimerosal on rat brain development. <i>Toxicology Letters</i> 2006; <b>164S</b> : S119.	S-10.004
Qvarnstrom J, Lambertsson L, Havarinasab S, et al. Determination of methylmercury, ethylmercury, and inorganic mercury in mouse tissues, following administration of thimerosal, by species-specific isotope dilution GC-inductively coupled plasma-MS. <i>Anal Chem</i> 2003; <b>75</b> : 4120-4124	S-10.005
Zarini S, Gijon MA, Folco G, et al. Effect of arachidonic acid reacylation on leukotriene biosynthesis in human neutrophils stimulated with granulocyte-macrophage colon stimulating factor and formyl-methionyl-leucyl-phenylalanine. <i>J Bio Chem</i> 2006; <b>281</b> : 10134-10142	S-10.006
Yole M, Wickstrom M, Blakley B. Cell death and cytotoxic effects in YAC-1 lymphoma cells following exposure to various forms of mercury. <i>Toxicology</i> 2007; <b>231</b> : 40-57	S-10.007
Makani S, Gollapudi S, Yel L, et al. Biochemical and molecular basis of thimerosal-induced apoptosis in T cells: a major role of mitochondrial pathway. <i>Genes Immun</i> 2002; <b>3</b> : 270-278	S-10.008
Rampersad GC, Suck G, Sakac D, et al. Chemical compounds that target thiol-disulfide groups on mononuclear phagocytes inhibit immune mediate phagocytosis of red blood cells. <i>Transfusion</i> 2005; <b>45</b> : 384-393	S-10.009
Ueha-Ishibashi T, Tatsuishi T, Iwase K, et al. Property of thimerosal-induced decrease in cellular content of glutathione in rat thymocytes: a flow cytometric study with 5-chloro-methylfluorescein diacetate. <i>Toxicol In Vitro</i> 2004; <b>18</b> : 563-569	S-10.010
Perez R, Matabosch X, Llebaria A, et al. Blockade of arachidonic acid incorporation into phospholipids induces apoptosis in U937 promonocytic cells. <i>J Lipid Res</i> 2006; <b>47</b> : 484-491	S-10.011
Westphal GA, Asgari S, Schulz TG, et al. Thimerosal induces micronuclei in the cytochalasin B block micronucleus test with human lymphocytes. <i>Arch Toxicol</i> 2003; <b>77</b> : 50-55	S-10.012
Woo KJ, Lee TJ, Bae JH, et al. Thimerosal induces apoptosis and G2/M phase arrest in human leukemia cells. <i>Mol Carcinog</i> 2006; <b>45</b> : 657-666	S-10.013
Ueha-Ishibashi T, Oyama Y, Nakao H, et al. Effect of thimerosal, a preservative in vaccines, on intracellular Ca <sup>2+</sup> concentration of rat cerebellar neurons. <i>Toxicology</i> 2004; <b>195</b> : 77-84	S-10.014
Humphrey ML, Cole MP, Pendergrass JC, et al. Mitochondrial mediated thimerosal-induced apoptosis in a human neuroblastoma cell line (SK-N-SH). <i>Neurotoxicology</i> 2005; <b>26</b> : 407-416	S-10.015
Herdman ML, Marcelo A, Huang Y, et al. Thimerosal induces apoptosis in a neuroblastoma model via the cJun N-terminal kinase pathway. <i>Toxicol Sci</i> 2006; <b>92</b> : 246-253	S-10.016
Morita M, Higuchi C, Moto T, et al. Dual regulation of calcium oscillation in astrocytes by growth factors and pro-inflammatory cytokines via the mitogen-activated protein kinase cascade. <i>J Neurosci</i> 2003; <b>23</b> : 10944-10952	S-10.017
Faure AV, Grunwald D, Moutin MJ, et al. Developmental expression of the calcium release channels during early neurogenesis of the mouse cerebral cortex. <i>European Journal of Neuroscience</i> 2001; <b>14</b> : 1613-1622	S-10.018
Jin Y, Dim DK, Khil LY, et al. Thimerosal decreases TRPV1 activity by oxidation of extracellular sulfhydryl residues. <i>Neuroscience Letters</i> 2004; <b>369</b> : 250-255	S-10.019
Baskin DS, Ngo H, Didenko VV. Thimerosal induces DNA breaks, caspase-3 activation, membrane damage, and cell death in cultured human neurons and fibroblasts. <i>Toxicological Sciences</i> 2003; <b>74</b> : 361-368	S-10.020
Yel L, Brown LE, Su K, et al. Thimerosal induces neuronal cell apoptosis by causing cytochrome c and apoptosis-inducing factor release from mitochondria. <i>International Journal of Molecular Medicine</i> 2005; <b>16</b> : 971-977	S-10.021
Mutkus L, Aschner JL, Syversen T, et al. In vitro uptake of glutamate in GLAST- and GLT-1-transfected mutant CHO-K1 cells is inhibited by the ethylmercury-containing preservative thimerosal. <i>Biol Trace Elem Res</i> 2005; <b>105</b> : 71-86	S-10.022
Lee S, Mian MF, Lee HJ, et al. Thimerosal induces oxidative stress in HeLa S epithelial cells. <i>Environmental Toxicology and Pharmacology</i> 2006; <b>22</b> : 194-199	S-10.024
Chang HT, Liu CS, Chou CT, et al. Thimerosal-induced cytosolic Ca <sup>2+</sup> elevation and subsequent cell death in human osteosarcoma cells. <i>Pharmacol Res</i> 2005; <b>52</b> : 328-333	S-10.025
Kiffe M, Christen P, Armi P. Characterization of cytotoxic and genotoxic effects of different compounds on CHO K5 cells with the comet assay (single-cell gel electrophoresis assay). <i>Mutation Research</i> 2003; <b>537</b> : 151-168	S-10.026
Debbasch C, Brignole F, Pisella PJ, et al. Quaternary ammoniums and other preservatives' contribution in oxidative stress and apoptosis on Chang conjunctival cells. <i>Investigative Ophthalmology &amp; Visual Science</i> 2001; <b>42</b> : 642-652	S-10.027
Mam-Pernat A, Buturovi-Ponikvar J, Logar M, et al. Increased ethyl mercury load in protein A immunoadsorption. <i>Therapeutic Apheresis and Dialysis</i> 2005; <b>9</b> : 254-257	S-10.028
Kramer L, Bauer E, Jansen M, et al. Mercury exposure in protein A immunoadsorption. <i>Nephrol Dial Transplant</i> 2004; <b>19</b> : 451-456	S-10.029
Sandhu SS, Dhese JS, Gill BS, et al. Evaluation of 10 chemical for aneuploidy induction in the hexaploid wheat assay. <i>Mutagenesis</i> 1991; <b>6</b> : 369-373	S-10.030
Wallin M, Hartley-Asp B. Effects of potential aneuploidy inducing agents on microtubule assembly in vitro. <i>Mutat Res</i> 1993; <b>287</b> : 17-22	S-10.031

<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mmm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Parry JM. An evaluation of the use of in vitro tubulin polymerisation, fungal and wheat assays to detect the activity of potential chemical aneugens. <i>Mutat Res</i> 1993; <b>287</b> : 23-28.	S-10.032
Marrazzini A, Betti C, Bernacchi F, et al. Micronucleus test and metaphase analyses in mice exposed to known and suspected spindle poisons. <i>Mutagenesis</i> 1994; <b>9</b> : 505-515	S-10.033
Albertini S. Analysis of nine known or suspected spindle poisons for mitotic chromosome malsegregation using <i>Saccharomyces cerevisiae</i> D61.M. <i>Mutagenesis</i> 1990; <b>5</b> : 453-459	S-10.034
Sbrana I, Di Sibio A, Lomi A, et al. C-mitosis and numerical chromosome aberration analyses in human lymphocytes: 10 known or suspected spindle poisons. <i>Mutat Res</i> 1993; <b>287</b> : 57-70	S-10.035
Warr TJ, Parry EM, Parry JM. A comparison of two in vitro mammalian cell cytogenetic assays for the detection of mitotic aneuploidy using 10 known or suspected aneugens. <i>Mutat Res</i> 1993; <b>287</b> : 29-46	S-10.036
Kravchenko AT, Chervonskaia GP, Mironova LL. Use of a diploid cell line for detecting the toxic components in medical immunobiological preparations. <i>Biull Eksp Biol Med</i> 1986; <b>101</b> : 489-491	S-10.037
Chervonskaia GP, Kravchenko AT, et al. Cytotoxic action of the chemical substances found as admixtures in medical immunobiological preparations. <i>Zh Mikrobiol Epidemiol Immunobiol</i> 1988: 85-90	S-10.038
Lovely TJ, Levin DE, Klekowski E. Light-induced genetic toxicity of Thimerosal and benzalkonium chloride in commercial contact lens solutions. <i>Mutat Res</i> 1982; <b>101</b> : 11-18	S-10.039
Uchida T, Naito S, Kato H, et al. Thimerosal induces toxic reaction in non-sensitized animals. <i>Int Arch Allergy Immunol</i> 1994; <b>104</b> : 296-301	S-10.040
Crook TG, Freeman JJ. Reactions induced by the concurrent use of Thimerosal and tetracycline. <i>Am J Optom Physiol Opt</i> 1983; <b>60</b> : 759-761	S-10.041
Brunner M, Albertini S, Wurgler FE. Effects of 10 known or suspected spindle poisons in the in vitro brain tubulin assembly assay. <i>Mutagenesis</i> 1991; <b>6</b> : 65-70	S-10.042
Slikker W. Developmental neurotoxicology of therapeutics: survey of novel recent findings. <i>Neurotoxicology</i> 2000; <b>21</b> : 250	S-10.043
van't Veen AJ. Vaccines without thiomersal: why so necessary, why so long coming? <i>Drugs</i> 2001; <b>61</b> : 565-572	S-10.044
Cremer JE. The action of triethyl tin, triethyl lead, ethyl mercury and other inhibitors on the metabolism of brain and kidney slices in vitro using substrates labeled with <sup>14</sup> C. <i>J Neurochemistry</i> 1962; <b>9</b> : 289-298	S-10.045
Hook O, Lundgren KD, Swensson A. On alkyl mercury poisoning: with a description of two cases. <i>Acta Medica Scandinavica</i> 1954; <b>150</b> : 131-137	S-10.046
Chao ES, Gierthy JF, Frenkel GD. A comparative study of the effects of mercury compounds on cell viability and nucleic acid synthesis in HeLa cells. <i>Biochem Pharmacol</i> 1984; <b>33</b> : 1941-1945	S-10.047
Report of an International Committee. Maximum allowable concentrations of mercury compounds. <i>Arch Environ Health</i> 1969; <b>19</b> : 891-905	S-10.048
INERIS. Mercury and its Derivatives. Compilation of Toxicological and Environmental Data on Chemicals, July 2000, pgs 1-45	S-10.049
Leonard A, Jacquet P, Lauwerys RR. Mutagenicity and teratogenicity of mercury compounds. <i>Mutat Res</i> 1983; <b>114</b> : 1-18	S-10.050
Mathew C, Al-Doori Z. The mutagenic effect of mercury fungicide Ceresan M in <i>Drosophila melanogaster</i> . <i>Mutat Res</i> 1976; <b>40</b> : 31-36	S-10.051
Chmielnicka J, Brzeznicza E, Baranski B, et al. The effect of ethylmercury on fetal development and some essential metal levels in fetuses and pregnant female rats. <i>Biological Trace Element Research</i> 1985; <b>8</b> : 181-189	S-10.052
Takeda Y, Ukita T. Metabolism of ethylmercuric chloride- <sup>203</sup> Hg in rats. <i>Toxicol Appl Pharmacol</i> 1970; <b>17</b> : 181-188	S-10.053
Ukita T, Takeda Y, Sato Y, et al. Distribution of <sup>203</sup> Hg-labeled mercury compounds in adult and pregnant mice determined by whole-body autoradiography. <i>Radioisotopes</i> 1967; <b>16</b> : 439-448	S-10.054
Takeda Y, Kunugi T, Hoshino O, et al. Distribution of inorganic, aryl, and alkyl mercury compounds in rats. <i>Toxicol Appl Pharmacol</i> 1968; <b>13</b> : 156-164	S-10.055
Li Y, Jiang Y, Yan XP. Probing mercury species-DNA interactions by capillary electrophoresis with on-line electrothermal atomic absorption spectrometric detection. <i>Anal Chem</i> 2006; <b>78</b> : 6115-6120	S-10.056
Umeda M, Saito K, Hirose K, et al. Cytotoxic effect of inorganic, phenyl, and alkyl mercuric compounds on HeLa cells. <i>Japan J Exp Med</i> 1969; <b>39</b> : 47-58	S-10.057
Verschaeve L, Kirsch-Volders M, Susanne C, et al. Genetic damage induced by occupationally low mercury exposure. <i>Environ Res</i> 1976; <b>12</b> : 306-16	S-10.058
Palmer JS, Radeleff RD. The toxicologic effects of certain fungicides and herbicides on sheep and cattle. <i>Annals of the New York Academy of Sciences</i> 1964; <b>111</b> : 729-36	S-10.059
Platonow N. A study of the metabolic fate of ethylmercuric acetate. <i>Occup Health Rev</i> 1968; <b>20</b> : 1-8	S-10.060
Magos L, Brown AW, Sparrow S, et al. The comparative toxicology of ethyl- and methylmercury. <i>Arch Toxicol</i> 1985; <b>57</b> : 260-267	S-10.061
<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.	

Document Citations	Cited as <sup>1</sup> :
Miller VL, Klavano PA, Jerstad AC, et al. Absorption, distribution, and excretion of ethylmercuric chloride. <i>Toxicology and Applied Pharmacology</i> 1961; 3: 459-468	S-10.062
US Environmental Protection Agency. Mercury Study Report to Congress – Volume V Health Effects of Mercury and Mercury Compounds. Office of Air Quality Planning & Standards and Office of Research and Development, December 1997	S-10.063
Lee CH, Lin RH, Liu SH. Distinct genotoxicity of phenylmercury acetate in human lymphocytes as compared with other mercury compounds. <i>Mutat Res</i> 1997; 392: 269-276	S-10.064
Yuan Y, Atchison WD. Comparative effects of inorganic divalent mercury, methylmercury and phenylmercury on membrane excitability and synaptic transmission of CA1 neurons in hippocampal slices of the rat. <i>Neurotoxicology</i> 1994; 15: 403-411	S-10.065
Roberts MC, Seawright AA, Ng JC. Chronic phenylmercuric acetate toxicity in a horse. <i>Vet Hum Toxicol</i> 1979; 21: 321-327	S-10.066
Kozik MB, Wigowska-Sowinska J. Cerebral changes in the course of intoxication with mercury phenylacetate. <i>Exp Pathol (Jena)</i> . 1978; 16: 267-275	S-10.067
Hartke GT, Oehme FW, Leipold HW, et al. Embryonic susceptibility of <i>Microtus ochrogaster</i> (common prairie vole) to phenyl mercuric acetate. <i>Toxicology</i> 1976; 6: 281-287	S-10.068
Dzierzawski A. Embryotoxic and teratogenic effects of phenylmercuric acetate and methylmercuric chloride in hamsters, rats and rabbits. <i>Pol Arch Weter</i> 1979; 22: 263-287	S-10.069
Moriyama H. A study on congenital Minamata disease. 1. Effects of organic mercury administration on pregnant animals, with reference to the mercury content in the maternal and fetal organs. <i>Kumamoto Igakkai Zasshi</i> 1967; 41: 506-528	S-10.070
Veltman JC, Maines MD. Alterations of heme, cytochrome P-450, and steroid metabolism by mercury in rat adrenal. <i>Arch Biochem Biophys</i> 1986; 248: 467-478	S-10.071
Woods JS. Altered porphyrin metabolism as a biomarker of mercury exposure and toxicity. <i>Can J Physiol Pharmacol</i> 1996; 74: 210-215	S-10.072
Woods JS. Attenuation of porphyrinogen oxidation by glutathione in vitro and reversal by porphyrinogenic trace metals. <i>Biochem Biophys Res Commun</i> 1988; 152: 1428-1434	S-10.073
Dos Santos AP, Mateus ML, Carvalho CM, et al. Biomarkers of exposure and effect as indicators of the interference of selenomethionine on methylmercury toxicity. <i>Toxicol Lett</i> 2007; 169: 121-128	S-10.074
Oliveira FR, Ferreira JR, dos Santos CM, et al. Estradiol reduces cumulative mercury and associated disturbances in the hypothalamus-pituitary axis of ovariectomized rats. <i>Ecotoxicol Environ Saf</i> 2006; 63: 488-493	S-10.075
Olivieri G, Novakovic M, Savaskan E, et al. The effects of beta-estradiol on SHSY5Y neuroblastoma cells during heavy metal induced oxidative stress, neurotoxicity and beta-amyloid secretion. <i>Neuroscience</i> 2002; 113: 849-855	S-10.076
Pingree SD, Simmonds PL, Rummel KT, et al. Quantitative evaluation of urinary porphyrins as a measure of kidney mercury content and mercury body burden during prolonged methylmercury exposure in rats. <i>Toxicol Sci</i> 2001; 61: 234-240	S-10.077
Woods JS, Martin MD, Naleway CA, et al. Urinary porphyrin profiles as a biomarker of mercury exposure: studies on dentists with occupational exposure to mercury vapor. <i>J Toxicol Environ Health</i> 1993; 40: 235-246	S-10.078
Woods JS, Bowers MA, Davis HA. Urinary porphyrin profiles as biomarkers of trace metal exposure and toxicity: studies on urinary porphyrin excretion patterns in rats during prolonged exposure to methyl mercury. <i>Toxicol Appl Pharmacol</i> 1991; 110: 464-476	S-10.079
Gonzalez-Ramirez D, Maiorino RM, Zyniga-Charles M, et al. Sodium 2,3-dimercaptopropane-1-sulfonate challenge test for mercury in humans: II. Urinary mercury, porphyrins and neurobehavioral changes in dental workers in Monterrey, Mexico. <i>J Pharmacol Exp Ther</i> 1995; 272: 264-274	S-10.080
Bowers MA, Aicher LD, Davis HA, et al. Quantitative determination of porphyrins in rat and human urine and evaluation of urinary porphyrin profiles during mercury and lead exposures. <i>J Lab Clin Med</i> 1992; 120: 272-281	S-10.081
Fowler BA. Porphyrinurias induced by mercury and other metals. <i>Toxicol Sci</i> 2001; 61: 197-198	S-10.082
Woods JS, Fowler BA. Renal porphyrinuria during chronic methyl mercury exposure. <i>J Lab Clin Med</i> 1977; 90: 266-272	S-10.083
Leonzio C, Fossi MC, Casini S. Porphyrins as biomarkers of methylmercury and PCB exposure in experimental quail. <i>Bull Environ Contam Toxicol</i> 1996; 56: 244-250	S-10.084
Miller DM, Woods JS. Urinary porphyrins as biological indicators of oxidative stress in the kidney. Interaction of mercury and cephaloridine. <i>Biochem Pharmacol</i> 1993; 46: 2235-2241	S-10.085
Echeverria D, Heyer NJ, Martin MD, et al. Behavioral effects of low-level exposure to Hg <sup>0</sup> among dentists. <i>Neurotoxicology &amp; Teratology</i> 1995; 17: 161-168	S-10.086
Woods JS. Porphyrin metabolism as indicator of metal exposure and toxicity. In: <i>Toxicology of Metals: Biochemical Aspects</i> . 1995; 115: 19-52	S-10.087
Woods JS, Echeverria D, Heyer NJ, et al. The association between genetic polymorphisms of coproporphyrinogen oxidase and an atypical porphyrinogenic response to mercury exposure in humans. <i>Toxicology &amp; Applied Pharmacology</i> 2005; 206: 113-120	S-10.088
Anonymous. Mercury's metabolic fingerprint. <i>Science</i> 1992; 256: 29	S-10.089

<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.

Document Citations	Cited as <sup>1</sup> :
Heyer NJ, Bittner AC Jr, Echeverria D, et al. A cascade analysis of the interaction of mercury and coproporphyrinogen oxidase (CPOX) polymorphism on the heme biosynthetic pathway and porphyrin production. <i>Toxicol Lett</i> 2006; <b>161</b> : 159-166	S-10.090
Echeverria D, Woods JS, Heyer NJ, et al. The association between a genetic polymorphism of coproporphyrinogen oxidase, dental mercury exposure and neurobehavioral response in humans. <i>Neurotoxicol Teratol</i> 2006; <b>28</b> : 39-48	S-10.091
Suzuki T. Exposure to inorganic mercury and urinary excretion of coproporphyrin. <i>Jpn J Exp Med</i> 1962; <b>32</b> : 45-53	S-10.092
Woods JS, Kardish RM. Developmental aspects of hepatic heme biosynthetic capability and hematotoxicity-II. Studies on uroporphyrinogen decarboxylase. <i>Biochem Pharmacol</i> 1983; <b>32</b> : 73-78	S-10.093
Warkany J, Hubbard DM. Acrodynia and mercury. <i>J Pediatr</i> 1953; <b>42</b> : 365-386	S-10.094
Grandjean P, Weihe P, White RF, et al. Cognitive performance of children prenatally exposed to 'safe' level of methylmercury. <i>Environmental Research, Section A</i> 1998; <b>77</b> : 165-172	S-10.095
Grandjean P, Weihe P, White RF, et al. Cognitive deficit in 7-year-old children with prenatal exposure to methylmercury. <i>Neurotoxicol Teratol</i> 1997; <b>19</b> : 417-428	S-10.096
Yokoo EM, Valente JG, Grattan L, et al. Low level methylmercury exposure affects neuropsychological function in adults. <i>Environmental Health: A Global Access Science Source</i> 2003; <b>2</b> : 8	S-10.098
Weihe P, Hansen JC, Murata K, et al. Neurobehavioral performance of Inuit children with increased prenatal exposure to methylmercury. <i>Int J Circumpolar Health</i> 2002; <b>61</b> : 41-49	S-10.099
Hunter D, Bomford RR, Russell DS. Poisoning by methyl mercury compounds. <i>Quarterly Journal of Medicine</i> 1940; <b>9</b> : 193-213	S-10.100
Jedrchowski W, Jankowski J, Flak E, et al. Effects of prenatal exposure to mercury on cognitive and psychomotor function in one-year-old infants: epidemiologic cohort study in Poland. <i>Ann Epidemiol</i> 2006; <b>16</b> : 439-447	S-10.101
National Research Council. <i>Toxicological Effects of Methylmercury</i> . Washington, DC: National Academy Press; 2000	S-10.102
Crump KS, Kiellstrom T, Shipp AM, et al. Influence of prenatal mercury exposure upon scholastic and psychological test performance: benchmark analysis of a New Zealand cohort. <i>Risk Anal</i> 1998; <b>18</b> : 701-713	S-10.103
Daston G, Faustman E, Ginsberg G, et al. A framework for assessing risks to children from exposure to environmental agents. <i>Environ Health Perspect</i> 2004; <b>112</b> : 238-256	S-10.104
Grandjean P, Landrigan PJ. Developmental neurotoxicity of industrial chemicals. <i>Lancet</i> 2006; <b>368</b> : 2167-2178	S-10.105
Winship KA. Toxicity of mercury and its inorganic salts. <i>Adverse Drug React Acute Poisoning Rev</i> 1985; <b>4</b> (3): 129-160	S-10.107
Clarkson TW. Metal toxicity in the central nervous system. <i>Environ Health Perspect</i> 1987; <b>75</b> : 59-64	S-10.108
Clarkson TW. Mercury: major issues in environmental health. <i>Environ Health Perspect</i> 1993; <b>100</b> :31-38	S-10.109
Goldman LR, Shannon MW; American Academy of Pediatrics: Committee on Environmental Health. Technical report: mercury in the environment: implications for pediatricians. <i>Pediatrics</i> 2001; <b>108</b> : 197-205	S-10.110
Schettler T. Toxic threats to neurologic development of children. <i>Environ Health Perspect</i> 2001; <b>109</b> (Suppl 6): 813-816	S-10.111
Clarkson TW, Magos L. The toxicology of mercury and its chemical compounds. <i>Crit Rev Toxicol</i> 2006; <b>36</b> : 609-662	S-10.112
Clarkson TW. The three modern faces of mercury. <i>Environ Health Perspect</i> 2002; <b>110</b> (Suppl 1): 11-23	S-10.113
Coluccia A, Borracci P, Giustino A, et al. Effects of low dose methylmercury administration during the postnatal brain growth spurt in rats. <i>Neurotoxicol Teratol</i> 2007; <b>29</b> : 282-287	S-10.114
Lehotzky K, Szeberenyi JM, Ungvary G, et al. Behavioral effects of prenatal methoxy-ethyl-mercury chloride exposure in rat pups. <i>Neurotoxicol Teratol</i> 1988; <b>10</b> : 471-474	S-10.115
Li S, Thompson SA, Woods JS. Localization of gamma-glutamylcysteine synthetase mRNA expression in mouse brain following methylmercury treatment using reverse transcription in situ PCR amplification. <i>Toxicol Appl Pharmacol</i> 1996; <b>140</b> : 180-187	S-10.116
Li Z, Dong T, Proschel C, et al. Chemically diverse toxicants converge on Fyn and c-Cbl to disrupt precursor cell function. <i>PLoS Biol</i> 2007; <b>5</b> : e35	S-10.117
Trasande L, Schechter CB, Haynes KA, et al. Mental retardation and prenatal methylmercury toxicity. <i>American Journal of Industrial Medicine</i> 2006; <b>49</b> : 153-158	S-10.118
Sager PR, Aschner M, Rodier PM. Persistent, differential alterations in developing cerebellar cortex of male and female mice after methylmercury exposure. <i>Brain Res</i> 1984; <b>314</b> : 1-11	S-10.119
Kern JK, Jones AM. Evidence of toxicity, oxidative stress, and neuronal insult in autism. <i>J Toxicol Environ Health, Part B</i> 2006; <b>9</b> : 485-499	S-16.001
State of California 2004 review of the literature and conclusions classifying Thimerosal as a developmental and reproductive toxin	S-16.002
Maya L, Luna F. Thimerosal and children's neurodevelopmental disorders. <i>An Fac Med Lima</i> 2006; <b>67</b> : 243-262	S-16.003
Engleson G, Herner T. Alkyl mercury poisoning. <i>Acta Paediatrica</i> 1952; <b>41</b> : 289-294	S-16.004
Chrysochoou C, Rutishauser C, Rauber-Luthy C, et al. An 11-month-old boy with psychomotor regression and auto-aggressive behavior. <i>Eur J Pediatr</i> 2003; <b>162</b> : 559-561	S-16.005
Bernard S, Enayati A, Redwood L, et al. Autism: a novel form of mercury poisoning. <i>Med Hypotheses</i> 2001; <b>56</b> :462-471	S-16.006
<sup>1</sup> Abbreviations: Fn-nnn is used for footnote nnn with a following parenthesized letter when a footnote cites multiple articles. S-nn.mm is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.	

Document Citations	Cited as <sup>1</sup> :
Blaxill MF, Redwood L, Bernard S. Thimerosal and autism? A plausible hypothesis that should not be dismissed. <i>Med Hypotheses</i> 2004; 62: 788-794	S-16.007
Blaylock RL. Chronic microglial activation and excitotoxicity secondary to excessive immune stimulation: possible factors in Gulf War Syndrome and autism. <i>J Am Phys Surg</i> 2004; 9: 46-51	S-16.008
Bernard S, Enayati A, Roger H, et al. The role of mercury in the pathogenesis of autism. <i>Mol Psychiatry</i> 2002; 7(Suppl 2): S42-S43	S-16.009
Blaylock RL. Interaction of cytokines, excitotoxins, and reactive nitrogen and oxygen species in autism spectrum disorders. <i>Journal of the American Nutraceutical Association</i> 2003; 6(4): 21-35	S-16.010
Zahir F, Rizwi SJ, Haq SK, et al. Low dose mercury toxicity and human health. <i>Environmental Toxicology and Pharmacology</i> 2005; 20: 351-360	S-16.011
Mutter J, Naumann J, Schneider R, et al. Mercury and autism: accelerating evidence? <i>Neuroendocrinology Letters</i> 2005; 26: 439-446	S-16.012
McGinnis WR. Oxidative stress in autism. <i>Altern Ther Health Med</i> 2004; 10: 22-36	S-16.013
McGinnis WR. Mercury and autistic gut disease. <i>Environ Health Perspect</i> 2001; 109: A303-A304	S-16.014
Chauhan A, Chauhan V. Oxidative stress in autism. <i>Pathophysiology</i> 2006; 13: 171-181	S-16.015
Rimland B. The autism epidemic, vaccinations, and mercury. <i>Journal of Nutritional &amp; Environmental Medicine</i> 2000; 10: 261-266	S-16.016
Blaylock RL. The central role of excitotoxicity in autism spectrum disorders. <i>Journal of the American Nutraceutical Association</i> 2003; 6(1): 10-22	S-16.017
Aschner M, Walker SJ. The neuropathogenesis of mercury toxicity. <i>Mol Psychiatry</i> 2002; 7(Suppl 2):S40-S41	S-16.018
Edelson SB, Cantor D. The neurotoxic etiology of the autistic spectrum disorders: a replication study. <i>Toxicol Ind Health</i> 2000; 16: 239-247	S-16.019
Ohta H, Seki Y, Imamiya S. Possible role of metallothionein on the gastrointestinal absorption and distribution of cadmium. <i>Kitasato Arch Exp Med</i> . 1993 Apr; 65 Suppl: 137-145	S-18(b.7.a).001
Nordberg GF. Modulation of metal toxicity by metallothionein. <i>Biol Trace Elem Res</i> . 1989 Jul-Sep; 21: 131-135	S-18(b.7.a).002
Chowdhury BA, Chandra RK. Biological and health implications of toxic heavy metal and essential trace element interactions. <i>Prog Food Nutr Sci</i> . 1987; 11(1): 55-113	S-18(b.7.a).003
Cherian MG, Nordberg M. Cellular adaptation in metal toxicology and metallothionein. <i>Toxicology</i> . 1983 Sep; 28(1-2): 1-15	S-18(b.7.a).004
Cherian MG, Goyer RA. Role of metallothioneins in disease. <i>Ann Clin Lab Sci</i> . 1978 Mar-Apr; 8(2): 91-94.	S-18(b.7.a).005
<sup>1</sup> Abbreviations: Fn- <u>nnn</u> is used for footnote <u>nnn</u> with a following parenthesized letter when a footnote cites multiple articles. S- <u>nn.mmm</u> is used for articles cited in various sections of the petition outside of footnotes with appropriate added modifiers for subsection, paragraph and subparagraph.	

In addition, this citizen petition references all documents submitted to, or referenced in, FDA Docket 2004P-0349 that are either: **a)** not referenced in the current petition or **b)** referenced in the current citizen petition but not provided with the filing documents at the time of filing of this citizen petition. [Note: For articles published in a foreign language, the petitioners have relied on the English-language abstracts in this citizen petition, except where an English-language translation has been provided.]