Vaccine Toxins

What's All the Fuss About?

Leslie Manookian
Producer of The Greater Good, an award winning documentary on vaccines

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Childhood Vaccine Schedule

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>1983 Doses</th>
<th>2003 Doses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphtheria</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Tetanus</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Pertussis</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Measles</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Polio</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Rubella</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Mumps</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Pneumococcal</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>RotaVirus</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Hib</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Meningococcus</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Total: 16</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

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Adult Vaccine Schedule:

- Flu shot every year
- Shingles - one
- TDaP - one
- Tetanus-Diphtheria (every 10 years)
- Varicella – two
- HPV – three
- MMR – two
- Pneumococcal – one
**Slide 4**

**Vaccine Ingredients:**
Safe for a baby’s bottle?

- Cells from aborted fetuses
- Monkey kidneys
- Chicken embryos
- Chicken feathers
- Monkey brain
- Cow milk protein
- Sheep blood
- Cow heart
- Calf serum
- Monkeys long tissue
- Cows dilute proteins
- Cows test
- Cows pancreatic enzymes
- Human blood protein
- Gelatin – various animals
- MSG
- Various animals
- Bacteria
- Genetically engineered organisms


**Slide 5**

**What we’re taught:**

- Vaccines are safe
- The vaccine schedule has been properly studied for safety
- Vaccine ingredients have been studied for safety
- Vaccines alone are responsible for low disease rates seen today
- Vaccines are effective

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**Are Vaccines Safe?**
How vaccines are studied:

- Placebos are not placebos
- Vaccines studied singly but given in large combinations
- Vaccine research compares vaccinated to vaccinated populations
- No long term clinical study comparing vax to unvax
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Vaccine Toxins
- Thimerosal (Mercury)
- Aluminum
- Polysorbate 80
- Formaldehyde
- Foreign protein
- Co-toxicity
- Genetically engineered components

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Thimerosal (Mercury)
- Used in manufacturing process in some vaccines
- Used as a preservative in some vaccines
- Cannot be completely filtered out
- Trace amounts can cause harm
- Given to pregnant women and infants

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Thimerosal - Small Doses Cause Harm
- 0.5 ppb mercury kills human neuroblastoma cells (Parran et al., Toxicol Sci 2005; 86: 132-140)
- 2 ppb mercury = U.S. EPA limit for drinking water (http://www.epa.gov/safewater/contaminants/index.html#mcls)
- 20 ppb mercury destroys neurite membrane structure. Alzheimer’s! (Lee et al., Neuroreport 2001; 12: 733-737)
- 200 ppb mercury in liquid - EPA classifies as hazardous waste.
- 700 ppb mercury = level of mercury in large predator fish.
Thimerosal Still in Vaccines

- Roughly 50% of all flu shots
- DPT
- HIB
- DT
- Meningococcal

Thimerosal in Vaccines

- 1 microgram (mcg)/liter = 1 part per billion (ppb)
- 1 mcg in a vaccine dose (“trace”) = 2,000 ppb
- 25 mcg (amount in many flu shots) = 50,000 ppb
- 50,000 ppb = mercury in multi-dose flu, H1N1, meningococcal and tetanus vaccines as preservative
- 25,000 ppb = mercury in multi-dose, Hepatitis B vaccine given at birth from 1991-2001 in the U.S.
- 50,000 ppb = mercury in multi-dose DTaP and Hib vaccine given in the 1990’s to children at 2, 4, 6, 12 and 18 months of age

Thimerosal

- CDC scientist Thomas M. Verstraeten in 1999: “high exposure to ethylmercury from thimerosal-containing vaccines in the first month of life increases the risk of subsequent development of neurologic development impairment”
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Aluminum

• Used as an adjuvant in many vaccines
• Used as a preservative
• Not filtered out
• Very little safety investigation
• Science shows toxic to all forms of life
• No biological need

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Aluminum: Concern since 1911

• William Gies:
These studies have convinced me that the use in food of aluminum or any other aluminum compound is a dangerous practice. That the aluminum ion is very toxic is well known. That aluminized food yields soluble aluminum compounds to gastric juice (and stomach contents) has been demonstrated. That such soluble aluminum is in part absorbed and carried to all parts of the body by the blood can no longer be doubted. That the organism can ‘tolerate’ such treatment without suffering harmful consequences has not been shown...”

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Effects of Aluminum Toxicity in Humans and Animals

• Learning delay and disabilities
• Speech impairment
• Disturbance of sleep of infants
• Movement disorders
• Confusion
• Persistent Behavior
• Dementia
• Headache
• Muscle pains
• Kidney problems
• Increased liver size
• Immune System Disorders
• Autoimmune Disease

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**Aluminum in Vaccines**

- Toxicity not evaluated in same way as mercury
- Much larger doses in vaccines than Hg
- Quantity ranges from 125 mcg to 850 mcg
- Designed to persist in body
- Causes immune reaction absent antigen
- Crosses blood brain barrier in healthy adults
- Most susceptible are infants and elderly

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**Aluminum in Vaccines**

- Hep A
- Hep A & B
- Tetanus-Diphtheria
- Pneumococcal
- Hib
- HPV
- Tdap
- DTP-Polio-Hib
- DTaP-Polio
- Anthrax

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**Aluminum: Scientific Concerns**

- Highly neurotoxic
  - Tomljenovic L, Shaw CA, Lupus February 2012 vol. 21 no. 2 223-230.
  - Impairs pre- and postnatal brain development in humans and animals
  - Linked to dialysis-associated encephalopathy syndrome, aka dialysis dementia
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**Aluminum: Scientific Concerns**


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**Aluminum: Scientific Concerns**


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**Other Vaccine Toxins**

- Foreign protein – unknown impact
- Co-toxicity - unknown
Are Vaccines safe?

Studies on Autism:

- Sorting out the spinning of autism: heavy metals and the question of incidence
- Do aluminum vaccine adjuvants contribute to the rising prevalence of autism?
- Abnormal measles-mumps-rubella antibodies and CNS autoimmunity in children with autism
- Hepatitis B Vaccination of Male Neonates and Autism, NHIS 1997–2002
- Neurodevelopmental disorders following thimerosal-containing childhood immunizations: a follow-up analysis


Are Vaccines safe?

Studies on Brain damage and inflammation:

- Neurological Complications of Pertussis Immunization
- The smallpox vaccine and postvaccinal encephalitis
- Acute disseminated encephalomyelitis following influenza vaccination
- A Case Series of Children with Apparent Mercury Toxic Encephalopathies


Are Vaccines safe?

Studies on Cognitive Impairment:

- Aluminum hydroxide injections lead to motor deficits and motor neuron degeneration
- Neurodevelopmental disorders following thimerosal-containing childhood immunizations: a follow-up analysis
- Long-term Persistence of Vaccine-Derived Aluminum Hydroxide is Associated with Chronic Cognitive Dysfunction

Are Vaccines safe?

**Studies on Autoimmune Disorders:**
- Autoimmune Syndrome Induced by Adjuvants
- Vaccines and the risk of insulin-dependent diabetes (IDDM)
- Recombinant Hepatitis B Vaccine and the Risk of Multiple Sclerosis: a Prospective Study
- Is infant immunization a risk factor for childhood asthma or allergy?
- Chronic Arthritis after Rubella Vaccination
- Autoimmune hazards of hepatitis B vaccine
- Systemic lupus erythematosus following HPV immunization or infection?


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**Studies on Chronic Illness**
- Emergent Human Pathogen Simian Virus 40 and Its Role in Cancer
- Aluminum as an adjuvant in Crohn’s disease induction
- The common immunogenic etiology of chronic fatigue syndrome: from infections to vaccines
- Thimerosal-Derived Ethylmercury Is a Mitochondrial Toxin in Human Astrocytes


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**Studies on Unexplained Infant Death:**
- Unexplained cases of sudden infant death shortly after hexavalent vaccination
- Infant mortality rates regressed against number of vaccine doses routinely given: is there a biochemical or synergistic toxicity?
- Treatment of lethal pertussis vaccine reaction with histamine H1 antagonists.
- Primary Immunization of Premature Infants with Gestational Age <35 Weeks: Cardiorespiratory Complications and C-Reactive Protein Responses Associated with Administration of Single and Multiple Separate Vaccines Simultaneously

Are Vaccines Safe?

Unexplained Infant Mortality

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Are Vaccines Safe?

We don’t have all the answers but science demonstrates serious cause for concern.

FOR MORE INFORMATION:
Go to: greatergoodmovie.org