

How much aluminum does it take to cause Autism, Alzheimer's...?

<https://www.atsdr.cdc.gov/toxprofiles/tp22.pdf>

Dr. Exley explaining the effects of aluminum on the brain.

Chris Exley

Biologist (University of Stirling) with a PhD in the ecotoxicology of aluminium (University of Stirling). Professor in Bioinorganic Chemistry Keele University Honorary Professor, UHI Millennium Institute Group Leader - Bioinorganic Chemistry Laboratory at Keele

Quote from article: "A study published in BMC Medicine showed that alum-containing vaccines were associated with the appearance of aluminum deposits in distant organs, such as the spleen and brain, and were still detectable one year after injection. The same group from France published another study two years later, emphasizing that there are "several gaps in the knowledge on alum particles, including their exact mechanisms of action, their fate after injection, their systemic dissemination, and their safety on the long-term. Efforts have been done in the last years to develop novel adjuvants, but attempts to seriously examine safety concerns raised by the bio-persistent character and brain accumulation of alum particles have not been made."

<https://www.sott.net/article/362778-Dr-Chris-Exley-Aluminum-toxicity-expert>

Aluminum expert Chris Exley

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<https://vimeo.com/311415755>

"Safety maximum levels of Aluminum per the FDA:

1. 8lb baby - 18.6 mcg Aluminum
2. 15lb baby – 34.5 mcg Aluminum
3. 30lb toddler – 68.1 mcg Aluminum
4. 50lb child – 113 mcg Aluminum
5. 150lb adult – 340.5 mcg Aluminum

6. 350lb adult – 794.5 mcg Aluminum

How much aluminum is in the vaccines that are routinely given to children? Keep in mind the FDA says the safe amount is only 5mcg/kg!

1. Hib – 225 mcg Aluminum

2. Hep B – 250 mcg Aluminum

3. DTaP – 170 – 625 mcg Aluminum (depending on the manufacturer)

4. Pneumococcus – 125 mcg Aluminum

5. Hep A – 250 mcg Aluminum

6. HPV – 225 mcg Aluminum

7. Pentacel (dtap, hip, & Polio combo) – 330 mcg Aluminum

8. Pediarix (dtap, hep b, & Polio combo) – 850 mcg Aluminum

Hep B facts about newborns in the USA:

1. If baby is born at 8lbs, the amount of the Heb B vaccine given at birth, is 14x the “safe” amount, and the 100mcg of Aluminum in the synthetic "Vitamin K" shot quadruples that amount.

The United States has the Highest First Day Infant Mortality Rate in the developed WORLD and American 20 year olds are now getting Alzheimer's Disease . COINCIDENCE?

*** At 2m, 4m, and 6m appointments these vaccines routinely given combined add up to more than 1,000 mcg of Aluminum.

According to the FDA limits that amount isn't even safe for a 350lb adult!

And these figures are based on the premise that there is a safe threshold for aluminum!! Which there probably isn't!

Aluminum is Neurotoxic.

Glyphosate (RoundUp Insecticide and plant killer!) is also found in significant amounts in vaccines ..The WHO and the U.S. Supreme Court said Round Up is a carcinogen.

(via: The Truth about Vaccines Episode 2)

Aluminum is one of the most well-known neurotoxins. It's also a very widely used adjuvant in vaccinations. Here is a list of my compiled studies and other information on this toxic substance.

Adjuvant is a substance used to initiate a stronger and longer lasting immune reaction than then can be initiated alone by the attenuated pathogen. This is a fundamental flaw in vaccination. Invoking an immune response is not conferring beneficial lasting immunity that you receive from naturally acquiring the disease.

Aluminum is a neurotoxin, Mitochondrial Disruptor, causes Autoimmune disease. It is not currently in any licensed Flu vaccines. Studies show it can be more dangerous than mercury. Both collect in the brain and activate microglia and increase excitotoxicity in the brain causing systemic and brain inflammation.

Aluminum Phosphate, Aluminum hydroxide, Aluminum potassium phosphate, Aluminum hydroxy-phosphate sulfate are the most commonly used chemical adjuvants used in vaccinations.

How much aluminum is actually in each vaccine?

Hib (PedVaxHib brand only) - 225 micrograms per shot. The Hib vaccine is given at 2, 4 and 12 months.

Hepatitis B - 250 micrograms per shot. The hepatitis B vaccine is given at birth, 2 and 6 months.

DTaP- Depending on the manufacturer, ranges from 170 to 850 micrograms per shot.

Pentacel (DTaP, Hib and Polio combo vaccine) - 330 micrograms per shot.

Pediarix (DTaP, Hep B and Polio combo vaccine) - 850 micrograms per shot.

The DTaP shot is given at 2, 4, 6 and 15 months.

Pneumococcus (Pc) Prevnar - 125 micrograms per shot. The pneumococcal vaccine (PCV/Prevnar) is given at 2, 4, 6 and 12 months.

Hepatitis A - 250 micrograms per shot. The hepatitis A vaccine (Havrix) is given at 12 and 18 months.

HPV - 225 micrograms per shot.

Anthrax - 600 micrograms of aluminum per shot.

Babies weigh about 12 pounds (5.5kg) at two months of age when they receive 1,225mcg of aluminum from their vaccines, 50 times higher than safety levels.

Using the FDA's 5 mcg/kg/day, we can figure out the limit that a human can receive safely at one time:

8 pound, healthy baby: $8 \text{ lb.} / 2.204622622 \text{ lb.} = 3.63 \text{ kg.} \times 5 \text{ mcg.} = 18.14 \text{ mcg. of Alum.}$

15 pound, healthy baby: $15 \text{ lb.} / 2.204622622 \text{ lb.} = 6.8 \text{ kg.} \times 5 \text{ mcg.} = 34.02 \text{ mcg. of Alum.}$

30 pound, healthy toddler: $30 \text{ lb.} / 2.204622622 \text{ lb.} = 13.61 \text{ kg.} \times 5 \text{ mcg.} = 68.04 \text{ mcg. of Alum.}$

50 pound, healthy child: $50 \text{ lb.} / 2.204622622 \text{ lb.} = 22.68 \text{ kg.} \times 5 \text{ mcg.} = 113.40 \text{ mcg. of Alum.}$

150 pound adult: $150 \text{ lb.} / 2.204622622 \text{ lb.} = 68.04 \text{ kg.} \times 5 \text{ mcg.} = 340.19 \text{ mcg. of Alum.}$

350 pound adult: $350 \text{ lb.} / 2.204622622 \text{ lb.} = 158.76 \text{ kg.} \times 5 \text{ mcg.} = 793.79 \text{ mcg. of Alum.}$

Babies who follow the recommended immunization schedule are injected with nearly 5000mcg (5mg!) of aluminum by 18 months of age.

(Since some shot dates are variable, babies may receive up to 1,475mcg of aluminum at their 12-month or 15-month checkups!)

Anything that has more than 25 mcg of aluminum is *supposed* to have a label that says: “—WARNING: This product contains aluminum that may be toxic. Aluminum may reach toxic levels with prolonged parenteral administration if kidney function is impaired. Premature neonates are particularly at risk because their kidneys are immature, and they require large amounts of calcium and phosphate solutions, which contain aluminum.—“

Vaccines are exempt from this warning and are not required to follow the maximum dosage of 25 mcg. allowed.

Does birth through 18 years old qualify as prolonged exposure? I think it does! Remember, the ability to excrete aluminum is dependent on healthy, properly functioning kidneys but a neonates kidneys are not fully functional until 1-2 years after birth.

Research indicates that patients with impaired kidney function, including premature neonates, who receive parenteral levels of aluminum at greater than 4 to 5 [micro]g/kg/day accumulate aluminum at levels associated with central nervous system and bone toxicity. Tissue loading may occur at even lower rates of administration. There is concern for a build up of aluminum in the infants body because aluminum is excreted by the kidneys and kidney filtration is low at birth and does not reach maximum filtration rate until 1-2 years of age.

Reference: Simmer, K. Aluminum in infancy. In: Zatta PF, Alfrey AC, (Eds) Aluminum toxicity in infants Health and Disease. 1997, World Scientific Publishing.

Aluminum is neurotoxic, even in minute quantities, and has a long history of well-documented hazards.

In 1927, Dr. Victor Vaughn, a toxicologist with the University of Michigan, testified before the Federal Trade Commission that “all salts of aluminum are poisonous when injected subcutaneously or intravenously.” According to the American Academy of Pediatrics, “Aluminum is now being implicated as interfering with a variety of cellular and metabolic processes in the nervous system and in other tissues.”

This has led some researchers to speculate that aluminum may be linked to autism. Some evidence appears to support this possibility. For example, in 1997 the New England Journal of Medicine published data showing that premature babies injected with aluminum build up toxic levels in the blood, bones and brain, and that aluminum toxicity can lead to neurological damage, including mental handicaps at 18 months of age.

References: Zatta, P., et al., “Aluminum and health.” First International Conference on Metals and the Brain: from Neurochemistry to

Neurodegeneration. University of Padova, Italy (Sep 20-23, 2000).

Reference: Wisniewski, HM., et al., “Aluminum neurotoxicity in mammals.” Environmental Geochemistry and Health (March 1990);12(1-2):115-20.

Reference: Ayoub, D. “Aluminum, vaccines and autism: déjàvu!” National Autism Association Annual Conference. Atlanta, GA. (Nov. 11, 2007).

Reference: “Aluminum toxicity in infants and children (RE9607),” Pediatrics (March 1996);97(3):413-416.

Reference: Taylor, G. “It’s not just the mercury: aluminum hydroxide in vaccines.” Adventures in Autism (March 9, 2008). <http://adventuresinautism.blogspot.com>

Reference : Bishop, NJ., et al., “Aluminum neurotoxicity in preterm infants receiving intravenous-feeding solutions.” The New England Journal of Medicine 1997;336(22):1557-62.

The Centers for Disease Control and Prevention (CDC) and World Health Organization (WHO) are aware that aluminum is dangerous. For example, in June 2000, Dr. Tom Verstraeten, CDC epidemiologist, made the following comment to a group of concerned scientists:

“The results for aluminum were almost identical to ethylmercury because the amount of aluminum in vaccines goes along almost exactly with the mercury.” He was referring to a landmark study that found “statistically significant relationships” between both aluminum and mercury in vaccines and neurodevelopmental delays.

Reference: National Autism Association. From transcripts of the meeting by the Freedom of Information Act (FOIA). Received in an email dated June 28, 2006

Dr. John Clements, WHO vaccine advisor states "Aluminum is not perceived, I believe, by the public as a dangerous metal. Therefore, we are in a much more comfortable wicket in terms of defending its presence in vaccines."

Reference: Clements, J. "Workshop on aluminum in vaccines." Presented by National Vaccine Program Office, Department of Health and Human Services. San Juan, Puerto Rico (May 11-12, 2000). As noted in David Ayoub's presentation Ayoub, D. "Aluminum, vaccines and autism: déjàvu!" National Autism Association Annual Conference. Atlanta, GA. (Nov. 11, 2007)

A new Canadian study of the mechanisms of aluminum adjuvant toxicity in pediatric patients confirms that immune challenges during early development, including those vaccine-induced, can lead to permanent detrimental alterations of the brain and immune system function. Lucija Tomljenovic, PhD and Christopher A. Shaw, PhD of the University of British Columbia's evidence-based study was recently published in *Lupus*, the only fully peer reviewed international journal devoted exclusively to lupus (and related disease) research.

Reference: Tomljenovic L, Shaw CA. Mechanisms of aluminum adjuvant toxicity in pediatric populations. *Lupus*. 2011;21(2):223-230

According to the FDA and the AAP (American Academy of Pediatrics), what happens if a child receives more than the maximum required dose of aluminum?

- Aluminum builds up in the bones and brain and can be toxic.
- Aluminum can cause neurological harm.
- Aluminum overdose can be fatal in patients with weak kidneys or kidney disorders or in premature babies.

How many children are tested to see if their kidneys are functioning properly before they are vaccinated?

Could this also be why the Hepatitis B shot, given to infants at birth, has been linked to SIDS?

Reference: <http://sids-network.org/experts/poa9078.pdf>

There are several animal studies involving aluminum and/or aluminum-containing vaccines that did show neurologic harm. Not only did aluminum build up in the brain and cause damage, but some of the damage looked similar to what is seen in the brains of Alzheimer's patients.

These researchers at the Department of Molecular and Cellular Neurobiology, Tokyo Metropolitan Institute for Neuroscience, Japan, exposed rat nerve cells to varying amounts of aluminum and found not only nerve degeneration, but the accumulation of amyloid proteins, as is seen in patients with Alzheimer's disease. The level of aluminum needed to cause this effect was 50 micromoles over a three-week period. It isn't clear how 50 micromoles compares to the microgram units used in the vaccines.

Reference: . M. Kawahara et al, "Effects of Aluminum on the Neurotoxicity of Primary Cultured Neurons and on the Aggregation of Beta-Amyloid Protein," Brain Research Bulletin 55, no. 2 (15 May 2001): 211-217.

This group of doctors fed aluminum to rats for 35 days and found high levels of the metal in the brain tissue, as well as brain-tissue degeneration in a pattern similar to that found in Alzheimer's disease.

Reference: S. S. El-Rhman, "Neuropathology of Aluminum Toxicity in Rats (Glutamate and GABA Impairment)," Pharmacology 47, no. 3 (March 2003): 189-194.

This British group injected aluminum-containing vaccines into mice and found that levels of the metal rose in the brain and peaked around the third day after injection.

Reference: K. Redhead et al., "Aluminum-Adjuvanted Vaccines Transiently Increase Aluminum Levels in Murine Brain Tissue," Pharmacology & Toxicology 70, no. 4 (April 1992): 278-280.

Aluminum compounds, added to vaccines to augment their immunogenicity, have been shown to synergistically potentiate Thimerosal's neurotoxicity. In other words the damage that mercury or aluminum does to the nervous system individually is multiplied 10X's -100 X's when mercury in [Tetanus toxoid, Flu vaccine, H1N1 (swine flu shots), and meningococcal vaccines] is combined with aluminum in (Hib (PedVaxHib brand only), Hepatitis B, DTaP, Pneumococcus (Pc) Prevnar, Hepatitis A, HPV, Pentacel (DTaP, HIB and Polio combo vaccine), Pediarix (DTaP, Hep B and Polio combo vaccine) and Anthrax].

Reference: <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2957583/>

You may hear the pro vaccinators argue that aluminum is everywhere in our food, water, land, breast milk etc. and this is true. This is one reason why we need to be especially cautious about vaccines and not add more aluminum in our bodies. When we ingest aluminum, our body is able to expel aluminum through the kidneys.

There are three exceptions to this rule:

1. The very young up until two years have undeveloped kidneys and are not able to excrete aluminum and
2. As we get older the kidneys do not function as well so the elderly may have trouble excreting aluminum.
3. People with a disease or partially functioning kidney(s)

There is a completely different mechanism at work to try and rid the body of aluminum that is injected with vaccines and the aluminum tends to build up in the brain tissues just as thimerosal (mercury) does causing neurological and autoimmune problems.

Further, “ethylmercury (EtHg) and adjuvant-Al (aluminum) are the dominating interventional exposures encountered by fetuses, newborns, and infants due to immunization with Thimerosal-containing vaccines (TCVs). Despite their long use as active agents of medicines and fungicides, the safety levels of these substances HAVE NEVER BEEN DETERMINED, either for animals or for adult humans—much less for fetuses, newborns, infants, and children ... the potential synergistic effect of both toxic agents has not been properly studied. Therefore, early life exposure to both etHg and Al deserves due consideration.”

When you have huge buildups of things like aluminum & the constant pushing of fluoridated products including drinking water - fluoride increases the bioavailability of aluminum, & allows it to cross the blood brain barrier....that's why Alzheimer's patients have record high levels of aluminum in their brains. And teething in babies creates a histamine release which also opens the blood brain barrier allowing vaccine preservatives to cross into the brain.

Since vaccines bypass the digestive system entirely, they are not filtered out like they would be through digestion and thus absorb at 100%.

That Hep B given the day of birth? Is 249 mcg above safe absorption levels for an 8lb baby. Average babies weighing around 12 pounds at their 2 month check up receive 1,225 mcg of aluminum via vaccines - more than 1,223 mcg more than the FDA and CDC state is safe for their tiny bodies to absorb.

And why do aluminum levels matter? Aluminum builds up in the bones and brain and can be toxic to the body and its organs. Aluminum “can” cause neurological harm. Aluminum overdose can be fatal in patients with weak kidneys or kidney disorders or in premature babies.

Aluminum Toxicity in Infants and Children, Committee on Nutrition, American Academy of Pediatrics, Pediatrics Volume 97, Number 3 March, 1996, pp. 413-416”

“We have also used an aluminium-selective fluor to identify aluminium in brain tissue using fluorescence microscopy. The aluminium content of brain tissue in autism was consistently high”
<http://www.sciencedirect.com/science/article/pii/S0946672X17308763>

In young children, a highly significant correlation exists between the number of pediatric aluminum-adjuvanted vaccines administered and the rate of autism spectrum disorders. Many of the features of aluminum-induced neurotoxicity may arise, in part, from autoimmune reactions, as part of the ASIA syndrome.”
<http://www.ncbi.nlm.nih.gov/m/pubmed/2360906/>

Aluminum is a neurotoxin, yet infants and young children are repeatedly injected with aluminum adjuvants from multiple vaccines during critical periods of brain development. Numerous studies provide credible evidence that aluminum adversely affects important biological functions and

may contribute to neurodegenerative and autoimmune disorders. It is impossible to predetermine which vaccinated babies will succumb to aluminum poisoning. Aluminum-free health options are needed.
<http://www.jpands.org/vol21no4/miller.pdf>

Rise in autism coincides with rise in vaccines Aluminum
<http://link.springer.com/article/10.1007%2Fs10565-013-9239-0>

Empirical data linking aluminum, acetaminophen and autism
<https://people.csail.mit.edu/seneff/Entropy/entropy-14-02227.pdf>
<http://www.jbiomedsci.com/content/19/1/51>

Aluminum and kidney damage in puppies and rats when given to pregnant mothers In low-income countries with high mortality, DTP as the last vaccine received may be associated with slightly increased mortality
<http://www.ncbi.nlm.nih.gov/pubmed/19568732>

Aluminum hydroxide injections lead to motor deficits and motor neuron degeneration
<http://www.ncbi.nlm.nih.gov/pubmed/19740540>

Aluminum in vaccines found to cause gulf war syndrome
<http://www.ncbi.nlm.nih.gov/pubmed/17114826>

Aluminum in central nervous system link to autism and ALS
<http://www.ncbi.nlm.nih.gov/pubmed/23609067>

Toxicity of aluminum in pediatric populations.
<http://www.ncbi.nlm.nih.gov/pubmed/22235057>

Aluminum in neonatal mice in vaccine amounts
<http://www.ncbi.nlm.nih.gov/pubmed/23932735>

"Is aluminum safe?"

Despite almost 90 years of widespread use of aluminum adjuvants, medical science's understanding about their mechanisms of action is still remarkably poor. There is also a concerning scarcity of data on toxicology and pharmacokinetics of these compounds. In spite of this, the notion that aluminum in vaccines is safe appears to be widely accepted. Experimental research, however, clearly shows that aluminum adjuvants have a potential to induce serious immunological disorders in humans. In particular, aluminum in adjuvant form carries a risk for autoimmunity, long-term brain inflammation and associated neurological complications and may thus have profound and widespread adverse health consequences.
<https://www.ncbi.nlm.nih.gov/pubmed/21568886>

"A new study published in the Journal of Trace Elements in Medicine and Biology provides the strongest indication yet that aluminum is an etiological agent in autism spectrum disorder (ASD), according to researchers at Keele University in England.

The study used transversely heated graphite furnace atomic absorption spectrometry to measure, for the first time, the aluminum content of brain tissue from five donors who had died with diagnoses of ASD. The results showed the donors to have had some of the highest values of aluminum yet measured in human brain tissue.

The mean (standard deviation) aluminum content across all five individuals for each lobe were 3.82(5.42), 2.30(2.00), 2.79(4.05) and 3.82(5.17) mg/g dry wt. for the occipital, frontal, temporal and parietal lobes respectively. Previous measurements of 60 brains from humans not diagnosed with ASD showed an average content of 1 mcg/g dry wt. of brain tissue.

"One has to wonder why aluminum in the occipital lobe of a 15-year-old boy with autism would be a value that is at least 10 times higher than what might be considered acceptable for an elderly adult?" said Christopher Exley PhD, Professor in Bioinorganic Chemistry and author of the study. Another ground-breaking study by Exley and his team, published earlier in the year, identified similarly high levels of aluminum in the brains of individuals who died of familial Alzheimer's disease.

<http://info.cmsri.org/blog/-discovery-of-shockingly-high-levels-of-aluminum-in-brains-of-individual-s-with-autism-suggests-link-with-aluminum-containing-vaccines>

Abstract

"Immune challenges during early development, including those vaccine-induced, can lead to permanent detrimental alterations of the brain and immune function. Experimental evidence also shows that simultaneous administration of as little as two to three immune adjuvants can overcome genetic resistance to autoimmunity. In some developed countries, by the time children are 4 to 6 years old, they will have received a total of 126 antigenic compounds along with high amounts of aluminum (Al) adjuvants through routine vaccinations. According to the US Food and Drug Administration, safety assessments for vaccines have often not included appropriate toxicity studies because vaccines have not been viewed as inherently toxic. Taken together, these observations raise plausible concerns about the overall safety of current childhood vaccination programs. When assessing adjuvant toxicity in children, several key points ought to be considered: (i) infants and children should not be viewed as "small adults" with regard to toxicological risk as their unique physiology makes them much more vulnerable to toxic insults; (ii) in adult humans Al vaccine adjuvants have been linked to a variety of serious autoimmune and inflammatory conditions (i.e., "ASIA"), yet children are regularly exposed to much higher amounts of Al from vaccines than adults; (iii) it is often assumed that peripheral immune responses do not affect brain function. However, it is now clearly established that there is a bidirectional neuro-immune cross-talk that plays crucial roles in immunoregulation as well as brain function. In turn, perturbations of the neuro-immune axis have been demonstrated in many autoimmune diseases encompassed in "ASIA" and are thought to be driven by a hyperactive

immune response; and (iv) the same components of the neuro-immune axis that play key roles in brain development and immune function are heavily targeted by AI adjuvants. In summary, research evidence shows that increasing concerns about current vaccination practices may indeed be warranted. Because children may be most at risk of vaccine-induced complications, a rigorous evaluation of the vaccine-related adverse health impacts in the pediatric population is urgently needed."

<http://www.ncbi.nlm.nih.gov/m/pubmed/2223505/>

"Anxiety-like behavior was more pronounced among mice immunized with alum. In conclusion, herein we report that immunization with the HBVv (hepatitis b vaccine) aggravated kidney disease in an animal model of SLE. Immunization with either HBVv or alum affected blood counts, neurocognitive functions and brain gliosis. Our data support the concept that different component of vaccines may be linked with immune and autoimmune mediated adverse events."

<http://www.ncbi.nlm.nih.gov/m/pubmed/2504282/>

Aluminum hydroxide (which is in vaccines) injections lead to motor deficits and motor neuron degeneration

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2819810/>

" By applying Hill's criteria for establishing causality between exposure and outcome we investigated whether exposure to AI (aluminum) from vaccines could be contributing to the rise in ASD (autism spectrum disorders) prevalence in the Western world. Our results show that: (i) children from countries with the highest ASD prevalence appear to have the highest exposure to AI from vaccines; (ii) the increase in exposure to AI adjuvants significantly correlates with the increase in ASD prevalence in the United States observed over the last two decades"

<http://www.ncbi.nlm.nih.gov/pubmed/22099159>

"Systemic autoimmunity appears to be the inevitable consequence of over-stimulating the host's immune 'system' by repeated immunization with antigen, to the levels that surpass system's self-organized criticality."

http://www.jimmunol.org/cgi/content/meeting_abstract/184/1_MeetingAbstracts/93.39

Results: It was found in all the cases reported here the response to antigenic stimulation damaged the Beta cells in the Pancreas causing Hyperinsulinemia which inhibited the cellular uptake of Vitamin C resulting in liver dysfunction, failure of carboxylation of the Vitamin K dependent proteins resulting in haemorrhages and fractures associated with the "triad".

Conclusion: Fractures, retinal and subdural haemorrhages and encephalopathy in children – is an autoimmune response to antigenic stimulation in a genetically susceptible individual.

"In all four cases shown here there is evidence that hyperglycemia followed vaccination and hyperglycaemia implies hypoinsulinism, an autoimmune disorder resulting from the destruction of the Beta cells of the pancreas. Since insulin is required for the transfer of vitamin C into the cells the intracellular vitamin C is reduced[12]. The resulting "tissue scurvy" compromises the function of the Liver by inhibiting carboxylation of the clotting and bone forming factors and is

manifested as the signs and symptoms of the “triad”. Both Dr Kalokerinos and Professor Clemetson recommended giving the infant Vitamin C before vaccination but it would seem more appropriate to do an intradermal skin test to test for sensitivity in every case. Both were firmly of the view that a metabolic abnormality of Vitamin C was the essential cause of the signs and symptoms of the alleged “Non-accidental injuries”. "

Michael D Innis. Autoimmunity and Non-Accidental Injury in Children. Clinical Medicine Research. Vol. 2, No. 3, 2013, pp. 40-44. doi: 10.11648/j.cmr.20130203.15

<http://article.sciencepublishinggroup.com/pdf/10.11648/j.cmr.20130203.15.pdf>

" Encephalitis can occur in the following ways:

A virus directly infects the brain. A virus that caused an infection in the past becomes reactivated and directly damages the brain. A virus or vaccine triggers a reaction that makes the immune system attack brain tissue (an autoimmune reaction)."

" Autoimmune encephalitis: After certain viral infections or vaccines, the body's immune system sometimes attacks the layers of tissue that wrap around nerve fibers (called the myelin sheath) in the brain and spinal cord. The attack occurs because proteins in myelin resemble those in the virus. As a result, nerve transmission becomes very slow. The resulting disorder, called acute disseminated encephalomyelitis, resembles multiple sclerosis except that symptoms do not come and go as they do in multiple sclerosis. The viruses most often involved include enteroviruses, Epstein-Barr virus, hepatitis A or B virus, human immunodeficiency virus (HIV), and influenza viruses."

http://www.merckmanuals.com/home/brain_spinal_cord_and_nerve_disorders/brain_infections/encephalitis.html

The common immunogenic etiology of chronic fatigue syndrome: from infections to vaccines via adjuvants to the ASIA syndrome.

Abstract:

Chronic fatigue syndrome (CFS) is characterized by unexplained fatigue that lasts for at least 6 months with a constellation of other symptoms. Most cases start suddenly, and are usually accompanied by a flu-like illness. It is a symptom-based diagnosis of exclusion, the pathogenesis of which is unknown. Studies have examined and hypothesized about the possible biomedical and epidemiologic characteristics of the disease, including genetic predisposition, infections, endocrine abnormalities, and immune dysfunction and psychological and psychosocial factors. Recently, the ASIA (autoimmune/inflammatory syndrome induced by adjuvants) syndrome was recognized, indicating the possible contribution of adjuvants and vaccines to the development of autoimmunity.

<http://www.ncbi.nlm.nih.gov/pubmed/22054760>

<http://ow.ly/Qj4X30oVc3J>

<http://ow.ly/UD5u30oVc3K>

<http://ow.ly/MpYK30oVc3L>

There is indisputable proof that aluminum should NEVER be injected into the body in ANY form.
<http://ow.ly/WfHg30oVc3M>

INGESTION VS INJECTION

"In healthy subjects, only 0.3% of orally administered aluminum is absorbed via the GI tract, and the kidneys effectively eliminate aluminum from the human body. Only when the GI barrier is bypassed, such as by intravenous infusion or in the presence of advanced renal dysfunction, does aluminum have the potential to accumulate. As an example, with intravenously infused aluminum, 40% is retained in adults and up to 75% is retained in neonates."

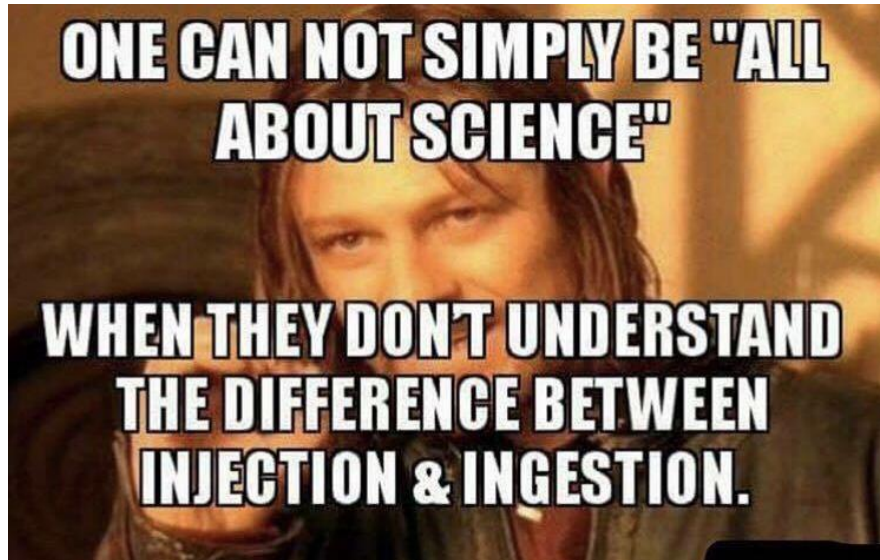
"If a significant aluminum load exceeds the body's excretory capacity, the excess is deposited in various tissues, including bone, brain, liver, heart, spleen, and muscle. This accumulation causes morbidity and mortality through various mechanisms."

Alum adjuvant amounts in vaccines:

- * Hib (PedVaxHib brand only) – 225 micrograms per shot.
- * Hepatitis B – 250 micrograms.
- * DTaP – depending on the manufacturer, ranges from 170 to 625 micrograms.
- * Pneumococcus – 125 micrograms.
- * Hepatitis A – 250 micrograms.
- * HPV – 225 micrograms.
- * Pentacel (DTaP, HIB and Polio combo vaccine) – 330 micrograms.
- Pediarix (DTaP, Hep B and Polio combo vaccine) – 850 micrograms.

Math:

The FDA determined 5 mcg per pound of alum adjuvant to be the safe daily injectable (IV) amount. No studies other than IV injection limits have been done. The hep b vaccine is 250 mcg. So a 7 lb baby would have a max of 35 mcgs. How does 7x the safe amount magically end up being okay? Vaccines go up to 850 mcg's also. Doctors are giving multiples at once with zero safety tests ever having been done in that regard. Another question is, how and why the FDA could approve vaccines having this knowledge of the math?



"The Dose Makes the Poison"

- Paracelsus, the father of toxicology.

This is true, and it's the excuse that vaccinologists and supporters of the vaccine program make when they claim aluminum in vaccines is not harmful.

However, a low dose of a toxic chemical does not always translate to a reduced risk of toxicity - especially in a situation where the exposure is recurrent. The immune system may not engage or respond the same way when we are exposed to small amounts of aluminum vs larger amounts.

You could look at it like this. If you wanted to take down a powerful dictator with an enormous military force at his command, would you approach his borders with a thousand men, sounding the alarm that you're approaching? No, that would alert your enemy to respond appropriately, and measures would be taken to counter your attack.

What would be more effective? Send in a dozen special forces soldiers for a covert operation and infiltrate, undetected. Or send in four or five teams, one after the other, to target important defenses, and...?

The damage is done before anyone realizes what happened.

"Cerebral [aluminum] levels were selectively increased in animals exposed to the lowest dose..."

"[T]he view that [aluminum hydroxide] neurotoxicity obeys "the dose makes the poison" rule of classical chemical toxicity appears overly simplistic."

Non-linear dose-response of aluminium hydroxide adjuvant particles: Selective low dose neurotoxicity.

<https://www.ncbi.nlm.nih.gov/pubmed/27908630>

"An extensive body of pharmacological and biobehavioral research has demonstrated that subsets of animals and people exhibit a progressive amplification of response size over the course of repeated, intermittent exposures to the same dose of a given chemical or environmental stressor..."

- Iris R. Bell, University of Arizona

<https://journals.sagepub.com/doi/pdf/10.1080/15401420391434342>

"Over the past three decades, in a series of studies about some of the most well-established toxicants, investigators have reported that the dose–response is proportionately steepest at the lowest levels of exposure. A curvilinear shape that exhibits its greatest effects at the lowest levels of exposure is called a supralinear dose–response. This curvilinear shape is counterintuitive, even heretical for researchers who think linearly or adhere to a belief in thresholds for noncarcinogenic toxicants. If ubiquitous toxicants, like lead and airborne particles [and ALUMINUM < my addition], exert their greatest rate of toxicity at the lowest levels of exposure, it has profound implications for environmental regulations and public health."

*Threshold = a dose level or amount, below which there is no observed adverse or toxic effect. We are finding that many toxicants which were considered to have thresholds for toxicity - meaning, are safe at ultra low doses - are actually toxic at any dose.

The supra-linear dose response:

https://www.researchgate.net/publication/259824677_The_supralinear_dose-response_for_environmental_toxicants_A_statistical_artifact

For example, there is likely no NOAEL (No Observed Adverse Event Level) or threshold exposure for arsenic. It is toxic at any dose:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4014411/>

The dose makes the poison?

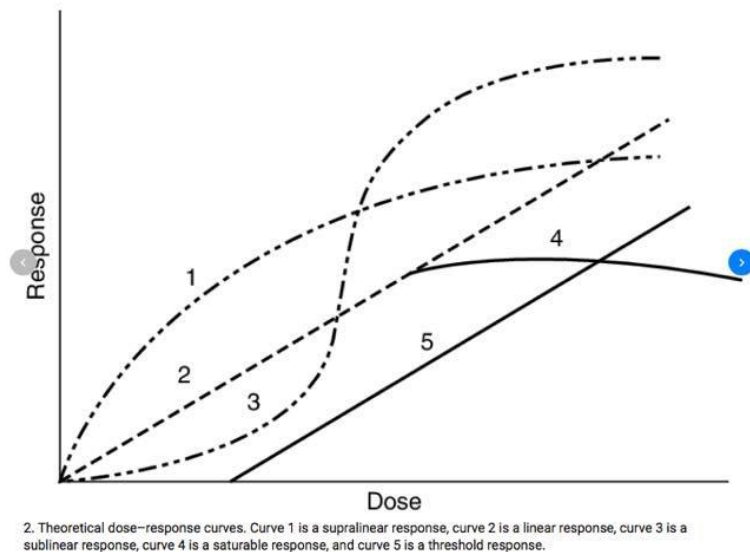
YES.

But that relationship is not always

LINEAR.

**Low-dose aluminum exposure
from routine vaccinations can be neurotoxic.**

<https://www.ncbi.nlm.nih.gov/m/pubmed/27908630/>



Aluminum adjuvant ingestion vs injection

Interesting study:

This is from the full study on science direct. (\$31.50)

INGESTION VS INJECTION

"In healthy subjects, only 0.3% of orally administered aluminum is absorbed via the GI tract, and the kidneys effectively eliminate aluminum from the human body. Only when the GI barrier is bypassed, such as by intravenous infusion or in the presence of advanced renal dysfunction, does aluminum have the potential to accumulate. As an example, with intravenously infused aluminum, 40% is retained in adults and up to 75% is retained in neonates."

"If a significant aluminum load exceeds the body's excretory capacity, the excess is deposited in various tissues, including bone, brain, liver, heart, spleen, and muscle. This accumulation causes morbidity and mortality through various mechanisms."

<https://web.archive.org/web/20160401214509/http://www.ncbi.nlm.nih.gov/pubmed/26948677>

Another link to the abstract.

<http://www.sciencedirect.com/science/article/pii/S1286011516000254?showall%3Dtrue%26via%3Dihub>

Alum adjuvant amounts in vaccines:

* Hib (PedVaxHib brand only) – 225 micrograms per shot.

- * Hepatitis B – 250 micrograms.
- * DTaP – depending on the manufacturer, ranges from 170 to 625 micrograms.
- * Pneumococcus – 125 micrograms.
- * Hepatitis A – 250 micrograms.
- * HPV – 225 micrograms.
- * Pentacel (DTaP, HIB and Polio combo vaccine) – 330 micrograms.
- Pediarix (DTaP, Hep B and Polio combo vaccine) – 850 micrograms.

Math:

The FDA determined 5 mcg per kg of alum adjuvant to be the safe daily injectable (IV) amount. No studies other than IV injection (intramuscular) limits have been done. The hep b vaccine is 250 mcg. So a 7 lb (3.18 kg) baby would have a max of 15 mcgs daily. How does around 17 x the safe amount magically end up being okay? vaccines go up to 850 mcg's also. Doctors are giving multiples at once with zero safety tests ever having been done in that regard. Another question is, how and why the FDA could approve vaccines having this knowledge of the math?

Ethylmercury is not safer

Ethylmercury can end up deposited in the brain. They said it was safer when they tested the blood, but the reason it cleared the blood faster is that it was more effective at getting to the brain than methylmercury.

"The proportion of inorganic mercury in the brain was much higher in the thimerosal (ethylmercury) group (21–86% of total mercury) compared to the methylmercury group (6–10%)."

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1280369/>

More in regard to ethylmercury (thimerosal):

<https://www.osti.gov/scitech/biblio/6178153>

<https://www.hindawi.com/journals/bmri/2012/256965/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3600517/>

<https://www.ncbi.nlm.nih.gov/m/pubmed/23727015/>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1038246/>

http://www.who.int/immunization/sage/meetings/2012/april/WHO_meeting_slides_Mitkus_040312.pdf?ua=1

http://link.springer.com/chapter/10.1007/398_2016_1

<https://www.hindawi.com/journals/jt/2012/373678/>

<http://www.sciencedirect.com/science/article/pii/S0161813X13000922>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1280342/>

FDA

[https://web.archive.org/web/20170212104639if_/http://www.fda.gov/ohrms/dockets/dockets/07p0331/07p-0331-cp00001-006-\(47-pages\)-vol1.pdf](https://web.archive.org/web/20170212104639if_/http://www.fda.gov/ohrms/dockets/dockets/07p0331/07p-0331-cp00001-006-(47-pages)-vol1.pdf)

Thimerisol (ethylmercury) is still in many vaccines, and not just the flu vaccine. The World Health Organization says it right here. Many vaccines still have it (<.5 mcg) because it's used in production. They don't count the residue that remains, but it's there.

What is a trace amount?

"Thimerosal is still used in the early stages of the manufacturing process of a few vaccines to ensure the production line is sterile. It is removed through a purification process, with only trace remaining (about 1/100th of the amount found in older vaccines). Vaccines with trace amounts of thimerosal are labeled "preservative-free." Vaccines that do not contain any thimerosal are labeled "thimerosal-free." Manufacturers are working to remove this trace amount found in a few vaccines."

So if your single dose flu vaccine says "preservative free", it still contains trace amounts of mercury even though you've been reassured by your pharmacist or doctor that it doesn't.

FYI - The Dtap vaccine is manufactured using mercury in production.

https://web.archive.org/web/20181229213844if_/http://www.health.state.mn.us/divs/idepc/immunize/hcp/thimerosalfs.pdf

http://who.int/vaccine_safety/committee/topics/thiomersal/questions/en/

Thimerosal (ethylmercury) is toxic waste. The CDC says the quantity of thimerosal (ethylmercury) used in vaccines is perfectly safe. The EPA says that same dose (the actual quantity that's injected into newborns) should be handled as toxic waste.

Who do you believe?

The EPA. They have no profit motive in their decision.

The CDC is in the vaccine business. They own vaccine patents and make billions of dollars from their sale. The CDC cannot be trusted with your children's lives.

<https://denr.sd.gov/des/wm/hw/documents/thimerosal.pdf>

This video only takes 60 seconds to show how mercury in vaccines harms an infant's brain.

<https://www.facebook.com/cognitivetruth/videos/652973178189287/>

Dr. Chris Exley discusses how to get aluminum out of your body.

Chris Exley

Biologist (University of Stirling) with a PhD in the ecotoxicology of aluminium (University of Stirling). Professor in Bioinorganic Chemistry Keele University Honorary Professor, UHI Millennium Institute Group Leader - Bioinorganic Chemistry Laboratory at Keele

Publications: <http://ow.ly/l4bW30mwTNy>

<https://youtu.be/8r9fv1mUaro>