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Specifically excluded from studies
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Bacterial infections, immune overload, and MMR vaccine

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Cytokine profile after rubella vaccine inoculation:

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The conclusion is that there are no reliable data indicating the individual susceptibility.

Gene-environment interactions may play a role in the 37 genes shared by RTT, ASD and DS are all involved in oxidative stress and damage to the body.

Glutathione Utilization

Converge upon immune and not neurotoxicant pathways

Super oxide

GSH in a dose-dependent manner

Mercury increases SOD

Results in lower levels of glutathione (GSH) in DS

How does mercury effect human biochemistry to cause toxicity?
Animal models and human studies have found cholinergic dysfunction in DS:


Exposure to mercury can induce cholinergic dysfunction:


Other abnormalities that are noted in DS and may be impacted by mercury exposure include:

- Calcium dysregulation
- Alterations in glutamate metabolism
- Autoimmune disorders
- Leukemia

The co-morbid occurrence of autism and DS is at least 7%.

Kent L. et al. 1999

2010 study found DS-ASD co-morbidity to be 18.2%.


Despite all that was known about both DS and the mechanisms by which mercury induces toxicity, I have been unable to find any study that has investigated the toxic effects of thimerosal in individuals with DS.

A 2004 in-vitro animal study investigated thimerosal’s effect on cells suffering from oxidative stress induced by hydrogen peroxide ($H_2O_2$); a situation similar to that found in DS:

- The toxicity of thimerosal was “greatly augmented when the cells suffered oxidative stress induced by $H_2O_2$.”

During a May 2008 CBS interview with former head of the National Institutes of Health Dr. Bernadine Healy, had the following to say:

Full video can be viewed at: http://www.cbsnews.com/video/watch/?id=4088138n

Facts about aluminum:

- In typical healthy people, the gastrointestinal tract excludes greater than 95% of dietary Al.
- Even with normal renal excretion, tissue accumulation of Al occurs.

Aluminum containing vaccines:

Are DS and AD patients warned about the amount of aluminum used in vaccines? Where are the safety studies on injected aluminum in these populations?

Facts about Aluminum:

- "Our findings suggest that it may be prudent to minimize the uptake of Al from the diet of patients who are at high risk of developing Alzheimer-type pathology, in particular DS patients, subjects with a strong family history of AD, and patients who are showing early signs of cognitive decline."
- Moore PB et al., 1997

Facts about Aluminum:

- "GSH = neurodegeneration Brain Res 1997 Aug 15;765(2):313-8
- A BIG Question
- Should such a damaging agent be given to a DS population, all of whom are at high risk for neurodegeneration and Alzheimer’s?"
Mitochondria and Thimerosal

- Thimerosal induces programmed cell death via the mitochondrial pathway by inducing oxidative stress and depletion of glutathione (GSH).

"Dose makes the poison."

"For a person exposed to a single chemical at a low concentration, GSH consumption is trivial. However, if the exposure is to a large number of chemicals for a long time, GSH use is relevant and depletion can happen because of GSH carboxylation."


Low GSH in DS makes cells more vulnerable to toxins.

Common childhood illness such as ear infections (otitis media) and tonsillitis:

- Mitochondria in DS/ASD
- Mitochondria and Thimerosal

Could this explain the vastly higher incidence of autism among children with DS?

Offit then goes on to say, "In other words, although large quantities of a particular metal don't pose a risk, all of these substances can be harmful in large quantities. Indeed, although small quantities aren't huges quantities, they might nevertheless inadvisable in the presence of an increasing number of toxic and mutagenic agents. Mitochondria to damaging agents.

Genetic differences in glutathione-S-transferase (GST) have been shown to contribute to the inter-individual variance in detoxification of mercury.

Low glutathione levels can make people more sensitive to DNA damage from a variety of mutagenic environmental exposures.

Genetic differences in glutathione-S-transferase (GST) have been shown to contribute to the inter-individual variance in detoxification of mercury.

Human intervention studies have demonstrated that regular intake of broccoli for a relatively short period of time can significantly affect glutathione-S-transferase (GST) activity and cell protection against DNA damage.

Vaccines and Your Child: Separating Fact from Fiction by Paul A. Offit (page 78) copyright 2011

Glutathione (GSH) protects against stress and depletion of glutathione (GSH). Low glutathione levels can make people more sensitive to DNA damage from a variety of mutagenic environmental exposures.
In 1996, JAMA reported it is safe to give MMR to children who presented with mild illnesses such as upper respiratory infection, otitis media and diarrhea.

Studies on the effect of vaccines on the DNA of the inoculated organisms is, “warrants further study.”

Other persons with underlying inflammation

- Obesity
- Elderly
- Down syndrome

What We Knew back then...

Chromosomal breaks have been documented in patients receiving attenuated measles vaccines.

- Recombined vaccine breaks in both DS and typical children.

Vaccines and Chromosomal Damage

Studies on the effect of vaccines on the DNA of the inoculated organisms is, “warrant further study.” Although it is directly concerned with human health.

...the chromosomes of male mice are comparatively more susceptible to aberration on exposure to measles vaccine than that of the female mice.

M. Sarnat, JAMA, 2/2/1993

Of Mice and Men

- Chromatid breaks of rubella vaccine inoculated mouse bone marrow.


Low GSH is a risk factor for leukemia (and autoimmunity)

- Tylenol cause transitory decreases in DNA repair ability

- Before vaccination significantly increased the movement toward a low glutathione self-culture.


IOM 2004

Epidemiology vs Biological Studies

IOM is correct; you cannot determine subgroups of sensitive persons from large study.

The levels of mercury are not significantly increased damage from exposure to mercury, aluminum, viruses & foreign DNA.

One group of genetically sensitive individuals means it is likely that there are others.

Think on this

- Measles vaccine can damage DNA
- DS individuals have poor DNA repair mechanisms

Points of Interest

No matter the age or the nutritional status of the subject, MMR vaccination significantly increased the movement toward a low glutathione self-culture.

Even the mild inflammatory stress of vaccination causes an increased utilization of cysteine. This led to a trend for a decrease in blood glutathione in the elderly subjects.

Full text at: http://www.ajcn.org/cgi/reprint/83/2/291

Think on this

- Instructed to give acetaminophen (Tylenol) to help with pain and/or fever post vaccination
- Both Tylenol and acetaminophen increase GSH
- Tylenol causes temporary decreases in DNA repair ability
- Low GSH is a risk factor for leukemia (and autoimmunity)
- DS children have a 15-20 fold increased risk of leukemia

How confident do I feel that sufficient mechanistic studies have been done on mandatory vaccines?