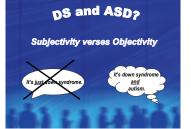


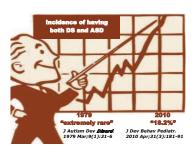
	Neuroanatomic correlates of autism and stereotypy in children with Down Syndrome (Neuroreport. 2008 Apr 16;19(6):653-6)
	Included MRIs of 15 children with DS, 15 children with DS-ASD and 22 controls.
1	DSM-IV criteria was used for ASD diagnosis.
	 Aberrant Behavior Checklist (ABC) Irritability Lethargy
	 Stereotypy (repetitive movements) Hyperactivity
	Inappropriate speech

	All DS	DS only	DS-ASE
Irritability	7.1	2.3	11.9
Lethargy	9.3	2.5	16.1
Stereotypy	6.9	0.7	13.1
Hyperactivity	11.7	4.7	18.7
Inappropriate speech	1.5	0.1	2.9
Total score	36.4	10.2	62.7

MRI findings

 A distinguishing feature of significantly more white matter in the brainstem and cerebelium of DS-ASD children compared to DS alone.
 This patter resembles that seen in children with autien alone.
 Increased white matter correlated with the ABC stereotypy subscale social sectors.















Bacterial infections, immune overload, and MMR vaccine (Arch Dis Child.2003; 88: 222-223) hospitalization for Inclusion criteria: ingococcal infe caemia rial meningitis enic arthritis clusion criteria

Full text available at: http://adc.bmi.com/cgi/reprint/88/3/222

PEDIATRICS

Diphtheria, pertussis, poliomyelitis, tetanus, and Haemophilus influenzae type b vaccinations and risk of eczema and recurrent wheeze in the first year of life: the KOALA Birth Cohort Study. Pediatrics. 2007 Feb;119(2):e367-73.

"Exclusion criteria were prematurity (gestational age <37 weeks) and congenital abnormalities related to immunity (such as Down syndrome)."

Specifically <u>excluded</u> from studies



specifically targeted for vaccines!





At 3 months of age my daughter Emily got a DPT, OPV, HIB, and Hep B Within days of vaccination.





Urinary Tract Diseases Revealed after DTP Vaccination in Infants and Young Children Cytokine Irregolatilies and Diseasorgealation of Cytochamie P430 Enzymes Induced by the Vaccine Mar Useaver Latent Diseases in Genetically Prefigous Subjects

 \bigcirc

"...the vaccine may uncover latent disease, especially in genetically predisposed subjects."

The genetic susceptibilities they are talking about are genetic variants of TNF-alpha and IL-6. DTP vaccination increases the proinflammatory cytokine IL-6. Some studies show IL-6 to already be elevated in children who

nave Jown syncrome. The authors point out that as far back as 1967 it was hypothesized that immunizations could convert a latent infection into a clinically apparent disease.

Immune overload

system

This DTP vaccination study is actually an example of overload.







Cytokine profile after rubella vaccine incoculation evidence of the immunosuppressive effect of vaccination Pukhalsky AL et al 2003

Blood samples were collected before vaccination and then again at 1 week and 1 month later.

d decrease of T-cell proliferation value on day 30 cination was observed "

"In conclusion, live attenuated rubella vaccine inoculation may cause austained immunosuppression including defective lymphocyte response to mitogen and impaired cytokine producton. The signs of immunosuppression may persist for at least 1 month after vaccination - ...

Cardial & Experimental Immunology The Joseph II Republicationsecology	(177) Aug
Cloud and Experimental Instantings Burntald of These .	down word rive stag manual
Infections and immunodeficiency in D	own syndrome
	* 8 8 8
G Bare and L Chican Surrowy	It's QUESTION TIME !!
Volume form former from the second se	terifier sell gest carbonized absorbed itim. (s. all)
to other spicebouget	e chidati conditione. Dh tudiridiade may have a
What happens if the immu	nosuppression
rom the vaccines extends	
	DC ushes
ime frame and a child with	

their next boosters before they have recovered?

Aaby P. et al. BMJ. 2010 Nov 30:341:c6495.

With regard to the DPT and MMR vaccines this study said:

"Previous studies have suggested that a short interval between these vaccines is associated with increased mortality, and administration of measles vaccine and DPT vaccine at the same time has been linked to negative health outcomes."



THE JOURNAL OF INFECTIOUS DISEASES VOL. 131, NO. 6 * JUNE 1975

From the National Institutes of Health

Report of a Workshop: Disease Accentuation after Immunization with Inactivated Microbial Vaccines

Timimization with mactivated whereonal vaccines Toisease was accentuated when the subject was exposed again, experimentally or under natural circumstances, weeks or even years after completion of the immunization regimen. Pro-longed, intensive surveillance of immunized subjects apparently is a requirement of any carefully designed field fural for vaccine. One can only wonder whether or not recipients of certain currently licensed vaccines (i.e., influenza) that provide variable and transient immunity are being followed adequately."



"Our results <u>surprisingly</u> converge upon immune and not neurodevelopment genes"

	Vaccine Safety	
Vac	cine Safety and Human Genetic Varia	tions
varcinated every ye health problems on	kerns following vaccingtion are rare, even though millions of ar in the United Status. Why do only a small number of poor field saccine-associated adverse synths (VAEa)? Do three have not in their immune responses to vaccingtion, compared to rais in their immune responses.	ple develop these provtkally
experience adverse	events?	and the second second
experience adverse Few studies have I for monitoring the inform sofe vaccin human genetics at	"While substantial research has been done on the genetic basis of medication safety, relatively little	and responsibility ring research to relationship betwee

Personalized vaccines: the emerging field of vaccinomic



between the traditional public health population-level paradigm and the newly evolving individual-level paradigm that recognizes genetically encoded unique individual

IOM 2004

With respect to the hypothesis that there may be a subgroup of children who are genetically more sensitive to the toxic effects of thimerosal (a mercury preservative found in vaccines), the IOM had this to say:

"This hypothesis cannot be excluded by epidemiological data from large population groups that do not show an association between a vaccine and an adverse outcome. Depending upon the frequency of the genetic defect, a rare event caused by genetic susceptibility could be missed even in large study samples."



Neurotox Res. 2009 Sep Are Neuropathological Conditions Relevant to Ethylmercury Exposure? Aschner M, Ceccatelli S.

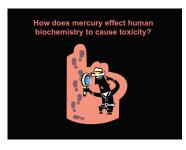
The conclusion is that there are no reliable data indicating that administration of vaccines containing themeosal is a primary cause of autism. <u>However</u>, one cannot rule out the possibility that the individual gene profile and/or gene-anvironment interactions may play a role in modulating the response to acquired risk by modifying the individual susceptibility."



If we could scientifically present evidence that there is <u>one</u> subgroup of the population that's more sensitive to mercury then we would have to assume there may be others as well.



Where would one begin to look for such a population?



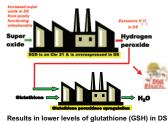
Mercury reduces glutathione (GSH) levels which can result in free radicals causing oxidative stress and damage to the body.



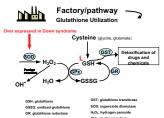
The role that glutathione (GSH) plays in mercury toxicity and oxidative stress was known long before the 2004 IOM declaration. Call estature Call estature Call estature types and adding a variety of metall by hibbiting its anithesis. There NEVER seen any of the experiments wherein BSO has:

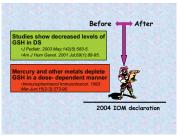
Call-couldity

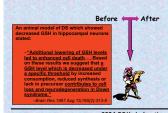




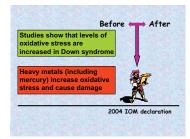
Results in lower levels of glutathione (GSH) in D

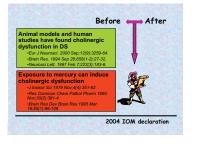


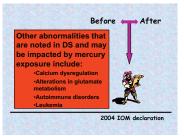




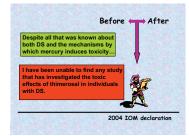
2004 IOM declaration



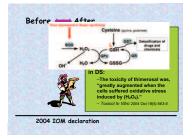
















During a May 2008 CBS interview with former head of the National Institutes of Health Dr. Bernadine Healy, had the following to say:

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 <u>dietary</u> Al.

 Even with normal renal excretion, tissue accumulation of Al occurs.



Facts about Aluminum

 "Our findings suggest that it may be prudent to minimize the uptake of AI 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 sins of cognitive decline."
 How Pet dt. 1997





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 ?









Question

Are vaccines also aggravating the underlying mitochondrial dysfunction in children with DS? Could this explain the vastly higher incidence of autism among children with DS?

Mitochondria in DS/ASD

DS mitocho



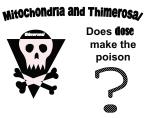
So mitochondria have a lower mitochondrial membrane potential which, is "underlying the presence of an increasing susceptibility of these organelles to damaging agents". . Lett. 2007 Feb 6;581(3):521-



Mitochondria and Thimerosal

 Thimerosal induces programmed cell death via the mitochondrial pathway by inducing oxidative stress and depletion of glutathione (GSH). un 2002 Aua:3(5):270-















How long will it take for all the water to leak out of this bucket?



Environ Health Perspect. 2009 Dec;117(12):1799-802





Genetic differences in glutathione-S-transferase (GST) have been shown to contribute to the inter-individual variance in detoxification of mercury. Environ Res. 2009 Aug;109(6):786-96 Total Environ 2007 Oct 15:385(1-3):37-47 s

Human intervention studies have demonstrated, "that regular intake of broccoli for a relatively short period of time could significantly affect glutathione-S-transferase (GST) activity and cell protection against DNA damage." Int J Vitam Nutr Res. 2008 Dec:78(6):261-8.





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



Glutathione and Mild Infections



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

serum antioxidant vitamins

levels of glutathione (GSH)

- malondialdehyde - a marker of oxidative stress Cernek et al. 2005 t

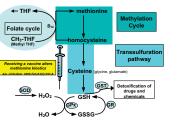
Vaccination during Mild Illness

 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.

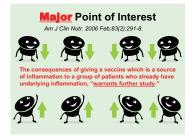
- Position supported by the American Academy of Pediatrics (AAP)

 GSH has antiviral properties and the MMR contains live viruses











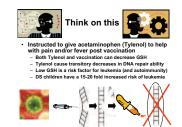
What We Knew back then...

Chromosomal breaks have been documented

in patients receiving attenuated measles <u>vaccines</u>.







Vaccines and Chromosomal Damage

Studies on the effect of vaccines on the DNA of the inoculated organisms is, "very meager, although it is directly concerned with human health."

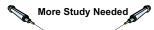


"...the chromosomes of male mice are comparatively more susceptible to aberration on exposure to measles vaccine than that of the female mice." Int J hum Genet, 3(1): 51-58 2003

Of Mice and Men



Clastogenicity of "rubella vaccine in mouse bone marrow, recorded here, is in agreement with the earlier reports on the induction of chromosomal breaks in humer membronic cell cultures." • Ind Jum Genet. 3(1): 51-58 2003



- "Further study is essential to unveil the exact mechanism of the clastogenic action of different vaccines on the hereditary materials of the inoculated organisms." Int J Genet, 3(1): 51-58 (2003)
- DO UPCOMING VACCINES UNDERGO TESTING ON THE CLASTOGENIC PROPERTIES OF THE VACCINE <u>PRIOR</u> TO PUBLIC RELEASE?









n additional increased spike in incidence of autism occurred in 95 when the chicken pox vaccine was grown in human fetal tissue erck and Co., 2001; Breuer, 2003)." "...these data support the hypothesis that residual human DNA in some vaccines minitr ausa autism."

ome vaccines might cause autism." J Immunotoxicol. 2011 Jan-Mar;8(1):68-79.



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



