VACCINATION NATION

Debra Gambrell, D.O.
January 13, 2016
Objectives

- SNPs
- Vaccinomics
- Adjuvants
- Anti-inflammatories
- Autoimmunity
- Future modalities

Scientists have discovered a powerful new strain of fact-resistant humans who are threatening the ability of Earth to sustain life, a sobering new study reports.

The research, conducted by the University of Minnesota, identifies a virulent strain of humans who are virtually immune to any form of verifiable knowledge, leaving scientists at a loss as to how to combat them.

More worryingly, Logsdon said, “As facts have multiplied, their defenses against those facts have only grown more powerful.”
Deaths caused by X-ray contrast media correlates with Bicyclists killed in collision with two- or three-wheeled motor vehicle

<table>
<thead>
<tr>
<th>Year</th>
<th>Deaths caused by X-ray contrast media</th>
<th>Bicyclists killed in collision with two- or three-wheeled motor vehicle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>2000</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>2001</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>2002</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>2003</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>2004</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>2005</td>
<td>13</td>
<td>2</td>
</tr>
<tr>
<td>2006</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>2007</td>
<td>17</td>
<td>1</td>
</tr>
<tr>
<td>2008</td>
<td>12</td>
<td>4</td>
</tr>
<tr>
<td>2009</td>
<td>10</td>
<td>1</td>
</tr>
<tr>
<td>2010</td>
<td>16</td>
<td>5</td>
</tr>
</tbody>
</table>

Correlation: 0.880518

Permalink - Not interesting
MTHFR

• Up to 50% of Americans have one defective copies

• 10%-20% have two defective copies
“MTHFR metabolism” by Epgui – Own work. Licensed under CC BY-SA 3.0 via Wikimedia Commons
Clinically Relevant SNPs

- MTHFR (methylation)
- COMT
- GAD (susceptibility to glutamate)
- GAMT (creatine synthesis)
- POD1 (organophosphate sensitivity)
- PEMT (phophatidylcholine synthesis)
Figure 3. Phase I and II Liver Detoxification

**FAT-SOLUBLE TOXINS**
- Phase 1
  - (Cytochrome P450 Enzymes)
  - Oxidation
  - Reduction
  - Hydrolysis
  - Hydration
  - Dehalogenation

**WATER-SOLUBLE WASTE**
- Phase 2
  - (Conjugation Pathways)
  - Sulfation
  - Glucoronidation
  - Glutathione Conjugation
  - Acetylation
  - Amino Acid Conjugation
  - Methylation

- Eliminated via:
  - Urine
  - Bile
  - Stool

**Intermediary Metabolism**
- Nutrients Needed
  - Vitamins B2, B3, B6, B12
  - Folic Acid
  - Glutathione
  - Flavonoids

- Nutrients Needed
  - Methionine
  - Cysteine
  - Magnesium
  - Glutathione
  - Vitamin B5, B12
  - Vitamin C
  - Glycine
  - Taurine
  - Glutamine
  - Folic Acid
  - Choline
Toxins (fat-soluble)
- Metabolic
- Micro-Organisms
- Contaminants
- Insecticides
- Pesticides
- Food Additives
- Drugs
- Alcohol

Waste Products (water-soluble)
- Eliminated from the body via:
  - Gall Bladder
  - Kidneys
    - Bile
    - Urine
    - Stool
Metabolic biomarkers of increased oxidative stress and impaired methylation capacity in children with autism


- “Conclusions: An increased vulnerability to oxidative stress and a decreased capacity for methylation may contribute to the development and clinical manifestation of autism.”

- “Relative to the control children, the children with autism had significantly lower baseline plasma concentrations of
  - methionine
  - SAM
  - homocysteine
  - cystathionine
  - cysteine
  - total glutathione”
Adapted from Dr. Amy Yasko
Genetic Basis for Adverse Events Following Smallpox Vaccination


• “In the first study, thirty-six SNPs in 26 genes were associated with systemic AEs. In the second study, only those SNPs associated with AEs in the first sample were tested.”

• “In the final analysis, three SNPs were associated consistently with AEs in both studies.”

• A (MTHFR) SNP was associated with AE risk in both sets.

• Two SNPs in the interferon regulatory factor 1 (IRF1) gene were associated with AE risk in both sets.
Genetic association epistasis network

vaccinomics and adversonomics
Aluminum and Neurological Disorders

• AL is the most abundant neurotoxic element in the earth’s crust.
• food additive, cosmetics, vaccines, pharmaceuticals
• Not a problem if AL were benign in biological systems, but it’s demonstrably not so
• Neurotoxin (Joshi, 1990; Shaw and Petrick, 2009; Walton, 2009; Tomljenovic, 2011)

• Genotoxin (Lukiw 2001)

• Immunotoxin (Gherardi et al, 2001; Israeli, et al, 2009; Batista-Duharte et al, 2011)

• Prooxidant (Verstraeten et al, 1997; Exley 2004)

• Proinflammatory (Lukiw et al, 2005)

• Endocrine disrupter (Agarwal, et al, 1996; Singla and Dhawan, 2011)

• Depresses glucose metabolism (Joshi, 1990; Singla and Dhawan, 2011)

• Interferes with calcium homeostasis (Walton, 2012), ATP-dependent mechanisms, membrane receptor signaling, and mitochondrial function (Shafer, et al, 1994; Tomljenovic, 2011)
Dietary versus vaccine-derived aluminum

- Route of exposure
- Yokel, et al 2008
- Yokel and McNamara, 2001
- Khan, et al 2013
autoimmune/inflammatory syndrome induced by adjuvants (ASIA)

- qualiene (Gulf War syndrome)
- aluminum hydroxide (postvaccination phenomena, macrophagic myofasciitis)
- silicone with siliconosis
- Mineral oil, guaiacol and iodine gadital
Box 1. Clinical spectrum of autoimmune/inflammatory syndrome induced by adjuvants.

**Postvaccination syndrome**

1. Vasculitis
2. Microscopic polyangiitis
3. Leukocytoclastic vasculitis
4. Henoch–Schonlein purpura
5. Giant cell arteritis
6. Polyarteritis nodosa
7. Systemic lupus erythematosus
8. Inflammatory myopathy
9. Rheumatoid arthritis
10. Neurological syndromes
11. Guillain–Barré syndrome
12. Narcolepsy
13. Multiple sclerosis
14. Acute disseminated encephalomyelitis
15. Transverse myelitis
16. Inflammatory bowel disease
17. Autoimmune thrombocytopenia
18. Alopecia areata
19. Nonspecific autoimmune manifestations

**Macrophagic myofasciitis syndrome**

1. Inflammatory myopathy
2. Nonspecific autoimmune manifestations

**Gulf War syndrome**

1. Chronic fatigue syndrome
2. Nonspecific autoimmune manifestations

**Siliconosis and other substances such as oils**

1. Systemic sclerosis
2. Rheumatoid arthritis
3. Still's disease
4. Systemic lupus erythematosus
5. Fibromyalgia
6. Nonspecific autoimmune manifestations
Activation of the NLRP3 inflammasome by aluminium salts
“It is not completely clear how aluminium salts activate the inflammasome.”

“What the potentially relevant downstream targets of caspase-1 are”

“Why aluminium salts induce Th2-type rather than Th1-type responses (which causes mediation in the differentiation of B cells that secrete Th2-cell-associated antibody isotypes IgG1 and IgE)”
“Experimental evidence also shows that simultaneous administration of as little as two to three immune adjuvants can overcome genetic resistance to autoimmunity.”


“Al disrupts biological self-ordering, energy transduction, and signaling systems, thus increasing biosemiotic entropy. Beginning with the biophysics of water, disruption progresses through the macromolecules that are crucial to living processes (DNAs, RNAs, proteoglycans, and proteins).”

Macrophagic myofasciitis syndrome


This syndrome, observed following the use of vaccines where the adjuvant was Alum, has been associated with the HLA class II allele *DRB1*01.
“Mechanistic studies have been valuable for better understanding of adjuvant action, but mechanisms of adjuvant toxicity are less well understood”

“The biggest remaining challenge in the adjuvant field is to decipher the potential relationship between adjuvants and rare vaccine adverse reactions, such as

- narcolepsy,
- macrophagic myofasciitis (MMF)
- Alzheimer's disease.”
Evidence that Increased Acetaminophen use in Genetically Vulnerable Children Appears to be a Major Cause of the Epidemics of Autism, Attention Deficit with Hyperactivity, and Asthma

Shaw, William  Journal of Restorative Medicine, Volume 2, Number 1, 1 October 2013, pp. 14-29(16)

- “genetically and/or metabolically susceptible children (SNPs)
- deficiency in phenolsulfotransferase --- leads to overloading of a defective sulfation pathway --- accumulation of NAPQI
- High NAPQI reduces detoxification ability, increases oxidative stress, causes cell damage
- Characteristic loss of Purkinje cells in the brain c/w brain glutathione depletion from APAP.”
Influenza vaccine appears to be a plausible candidate for molecular mimicry in the central nervous system.

Influenza virus type A contains a protein that is similar to human MBP.
The possible relationship between allergic manifestations and elevated serum levels of brain specific auto-antibodies in autistic children.

Mostafa GA J Neuroimmunol. 2013 Aug 15;261(1-2):77-81

• 78.5% of autistic children had increased serum levels of both anti-MBP and/or anti-MAG auto-antibodies.
What have we learned from food allergy and oral tolerance?

• What is oral tolerance?
• How is it bypassed?
• What does this mean?

Ethylmercury and Hg2+ induce the formation of neutrophil extracellular traps (NETs) by human neutrophil granulocytes.

Haase H. Arch Toxicol. 2015 Feb 22.

• Types of cell death
  • apoptosis
  • necrosis
  • NETosis
Hepatitis B vaccine responsiveness in Connecticut public safety personnel

- seroconversion after Hepatitis B vaccine series (3 vaccines)
Future modalities

• Reverse vaccinology: Extract the information from the genome without the never to ever grow the pathogen. (Sette and Rapuoli, 2010)

• These novel antigens are screened against the human genome to avoid homology.
• Production of Therapeutic Proteins in Plants

Thomas, Bruce (2002)

• “Research is underway to increase the production of vaccine in targeted plant tissues that are best for human consumption... Carrots have few storage problems and can be eaten raw and carrots modified to produce the antigen used in hepatitis B vaccines are currently entering preclinical trials.”

• Failure of “Golden Rice.”
Vaccine Airdrops Return to Control Rabies in Texas

News Release
Jan. 12, 2015

“The program will drop approximately 2.7 million doses of vaccine this year.

The vaccine is contained in a small plastic packet coated with fishmeal crumbles to make it attractive for wildlife to eat.”

https://www.dshs.state.tx.us/news/releases/20150112.aspx
“It has come to my attention that where vaccines are concerned, one who reads hundreds of studies published in peer reviewed journals, one who reads the information published by vaccine manufacturers themselves, is considered a conspiracy theorist by those who get their science from television.

I laugh at this. Until I think of my friends who have lost their babies to vaccines. Then I cry and my heart breaks.”

Elliot Freed


• Ethylmercury and Hg₂⁺ induce the formation of neutrophil extracellular traps (NETs) by human neutrophil granulocytes. Haase H, Hebel S, Engelhardt G, Rink L. Arch Toxicol. 2015 Feb 22. [Epub ahead of print]


• Genetic Basis for Adverse Events Following Smallpox Vaccination NIHPA Author Manuscripts. 2008 Jul 1 ; 198(1)16

• Adversomics: The Emerging Field of Vaccine Adverse Event Immunogenetics NIHPA Author Manuscripts. 2009 May; 28(5)431


• Methylenetetrahydrofolate Reductase Gene Polymorphisms in Children with Attention Deficit Hyperactivity Disorder International Journal of Medical Sciences. 2011; 8(7)523

• Don’t vaccinate during any cold or flu symptoms (runny nose, fever, body aches)

• Don’t vaccinate while teething

• Don’t vaccinate during any asthma exacerbation

• Don’t vaccinate with any newly recognized food allergy

• Caution with lab confirmed leaky gut, and especially leaky brain

• Don’t give Tylenol a few days before or after a vaccine. Same for Ibuprofen.

• Take daily probiotics:  *Bifidobacteria*  *Lactobacillus*

• Don’t have an anesthetic and/or surgery 2 weeks before or 2 weeks after a vaccine

• Glutathione, Phosphatidylcholine, Folate depending on genetic testing for SNPs

• Thuja comp, bentonite clay, chlorella, vitamin C, vitamin D

• Delay vaccines until at least 2 years old.