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@dr_bob_rakowski

DEMOLISHING DIABETES

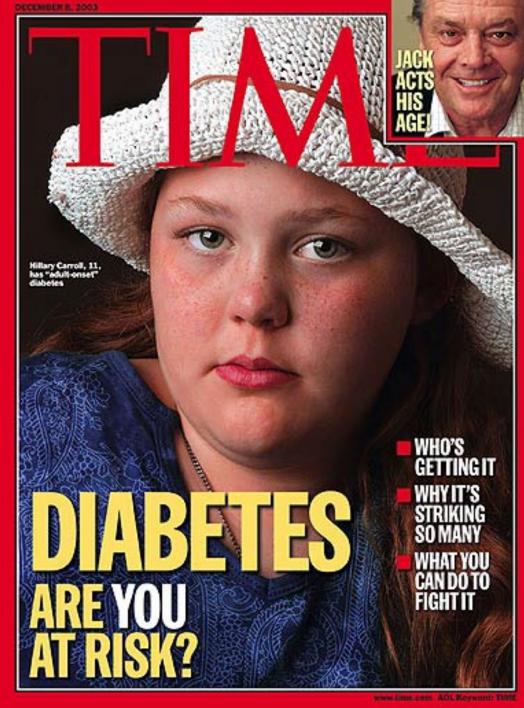
Types 1, 2 and 3

HEALTH, HAPPINESS & SUCCESS



The world's biggest health problem...





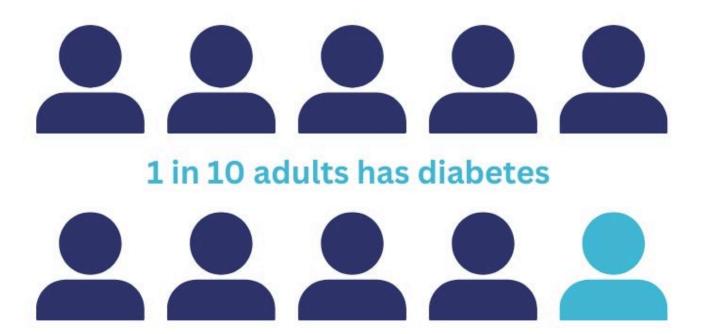
Diabetes is more expensive than cancer

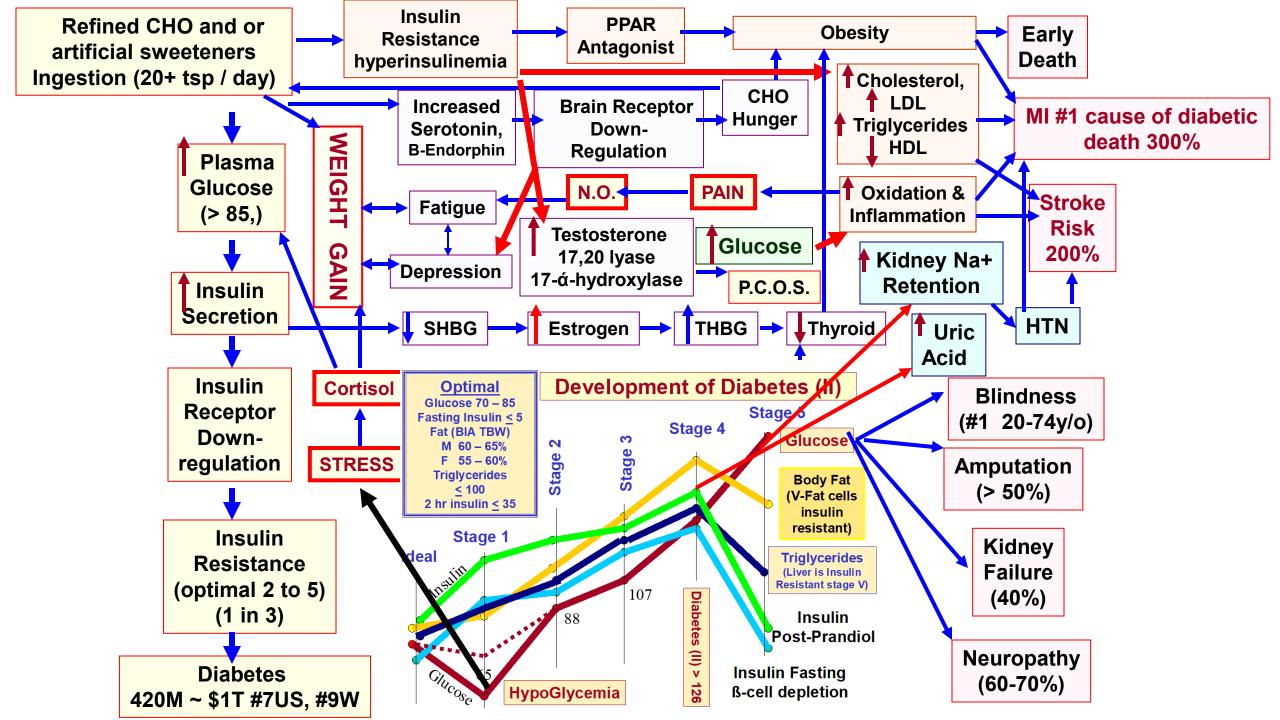
Non-discounted spending US\$BN

		2014	2015	2016	2017
1	Diabetes	33.7	43.6	49.3	53.7
2	Oncology	33.1	39.1	45.5	50.7
3	Autoimmune	23.5	30.7	38.6	46.7
4	Respiratory	21.4	23.7	25.4	26.8
5	HIV Antivirals	14.0	16.1	18.5	20.4

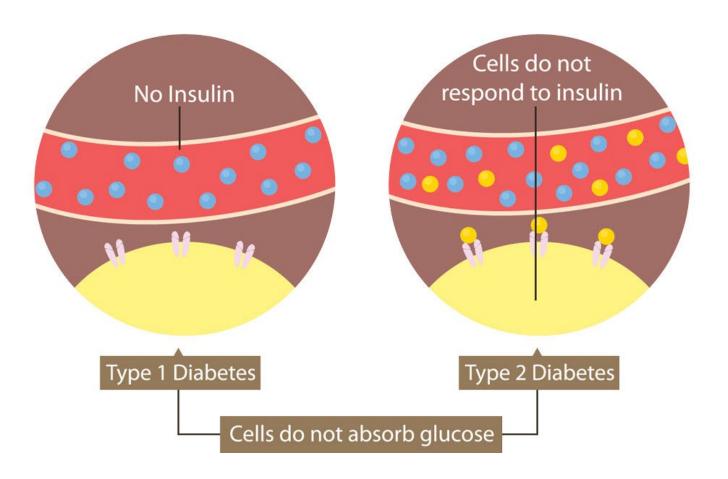
IQVIA Institute. Medicine Use and Spending in the U.S. A Review of 2017 and Outlook to 2022. April, 2018.

"Global diabetes-related health expenditures were estimated at 966 billion USD in 2021" Conclusions: Just over half a billion people are living with diabetes worldwide which means that over 10.5% of the world's adult population now have this condition. PMID: 34879977 2022



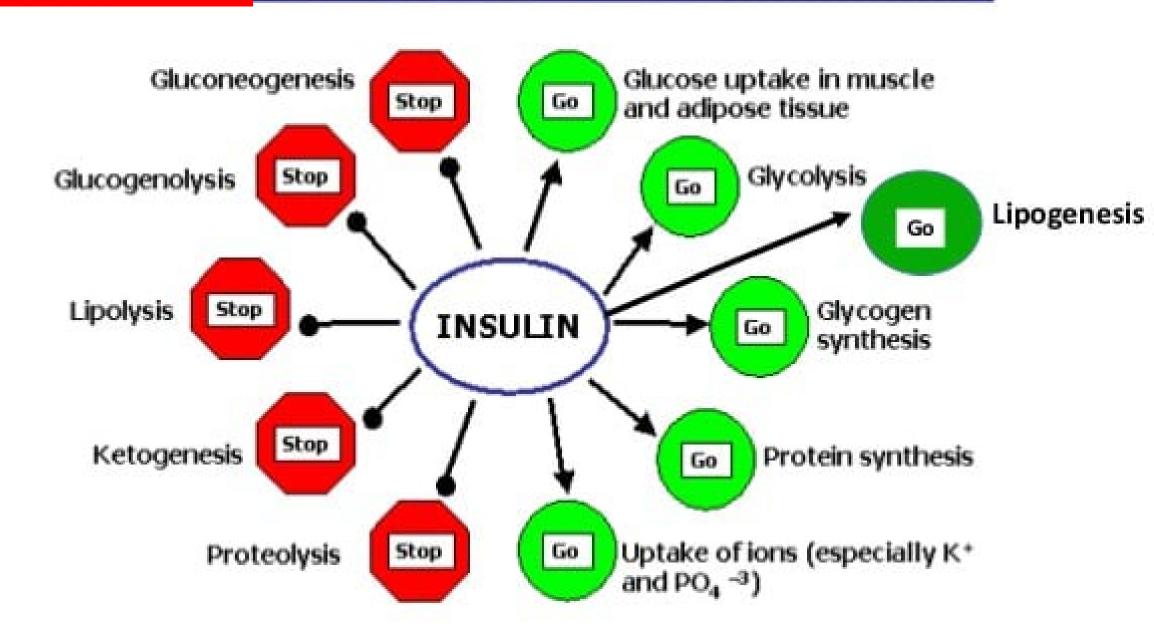


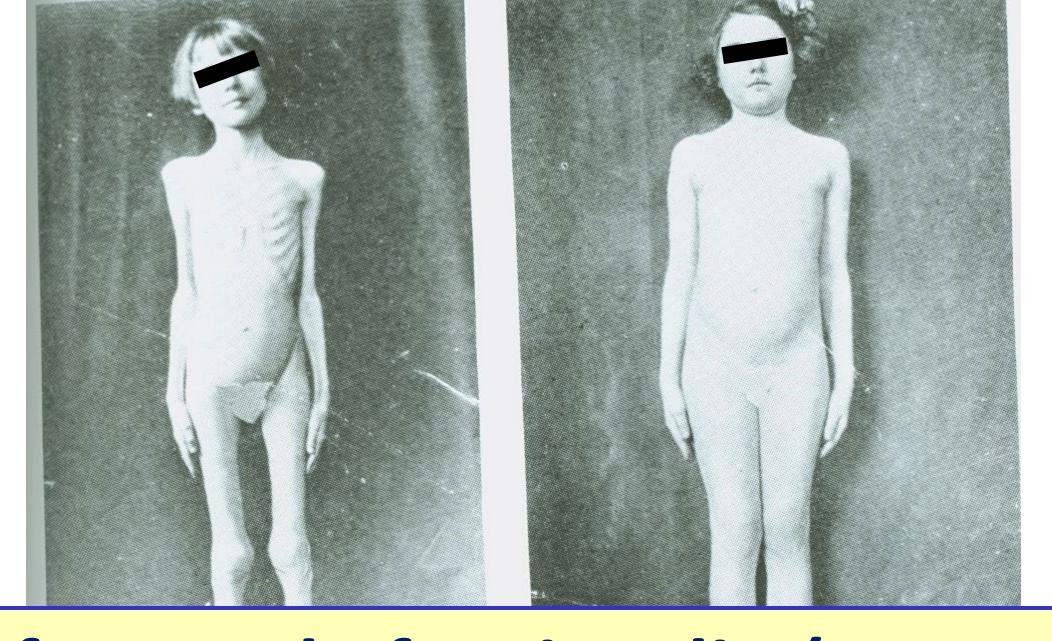
Types of Diabetes



Life Critica Actions of Insulin

Protein, Carbohydrate, Fat, Ions





Before and after insulin (1923ish)

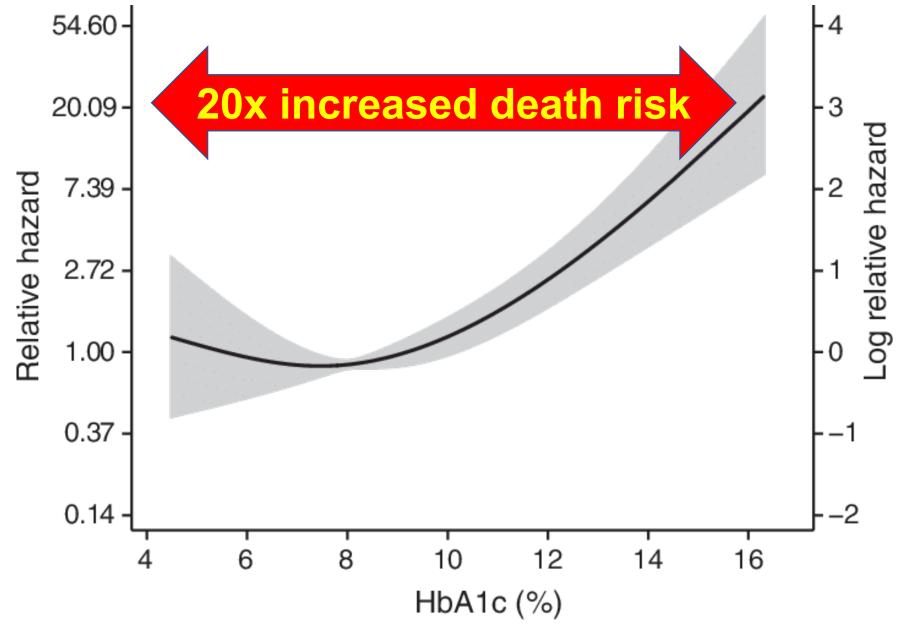
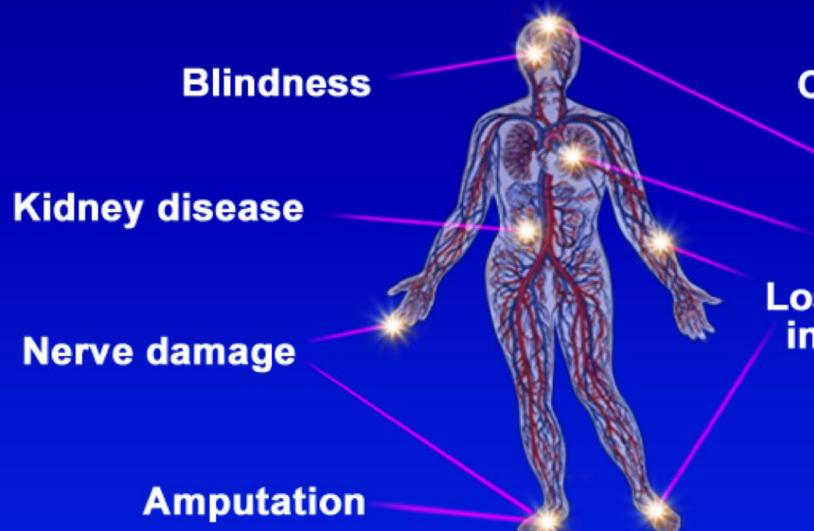


FIG. 4. Relationship of A1C to the hazard ratio for mortality in individuals with type 1 diabetes PMID: 19401416

Increased blood sugar associated increased death risk

Friends do not let friends become diabetic Chronic complications of diabetes



Cardiovascular disease:

Stroke
Heart attack
Loss of circulation
in arms and legs





"the marker of a Type I diabetic diagnosis is the rapid loss of weight." http://www.healthy-eating-

politics.com/research-on-obesity.html below

"Mr. Cutler was 24 when he learned he had Type 1 diabetes, which was diagnosed after a rapid 35-pound weight loss and severe fatigue originally attributed to stress. A team physical finally led to a diagnosis."

-35#

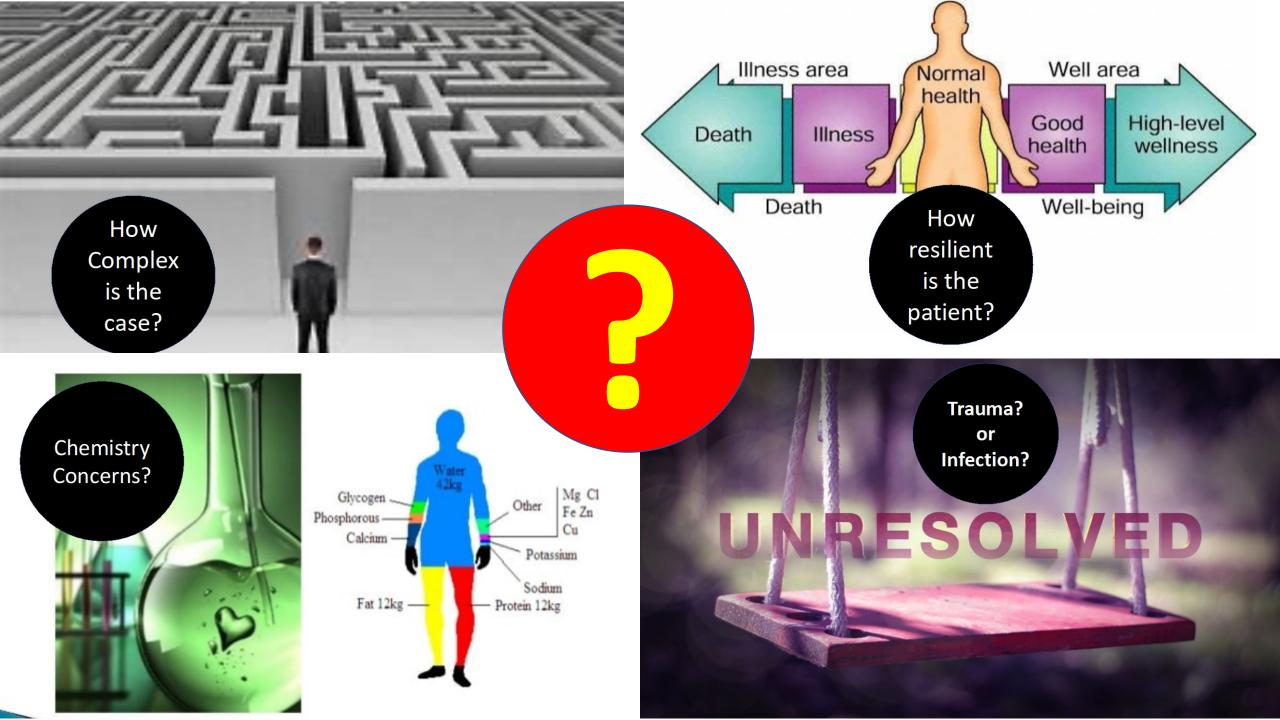


What's causing the problem?





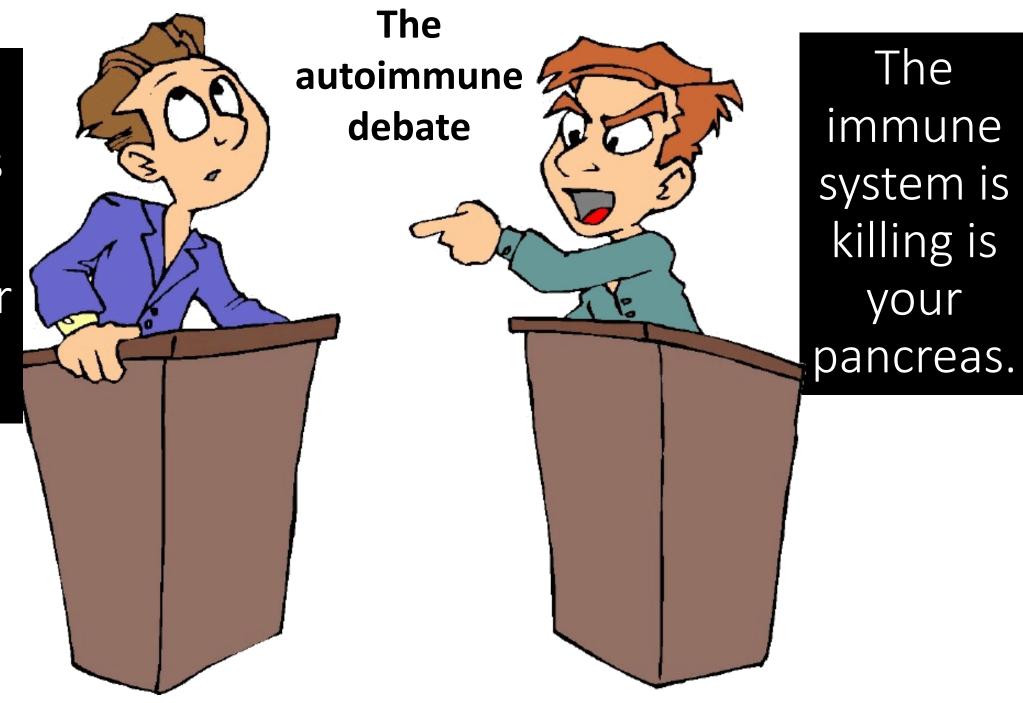








The immune system is killing sick or injured or toxic cells...



The

your

Ganoderma completely prevented TYPE 1 **Diabetes** in Epstein **Barr Virus infected** pancreated beta cells.

PMID: 7676490





"Obesity is related to a higher risk of rheumatoid arthritis, psoriasis and psoriatic arthritis, multiple sclerosis, and Hashimoto's thyroiditis, while it may promote inflammatory bowel disorders and type 1 diabetes mellitus."

PMID: 32632847





Gluten and Cow Dairy are believed to be triggers of type 1 diabetes PMID: 32415650 2020

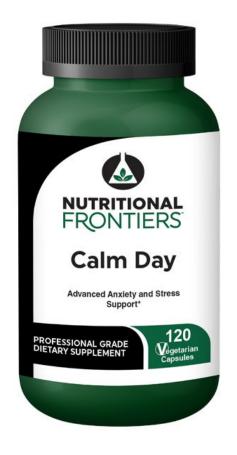
Stress significantly increases auto immunity

Stress related disorder 1.36x increased risk

PTSD 1.46x increased risk for any autoimmune disease and 2.29x increased risk for multiple autoimmune diseases

JAMA PMID: 29922828





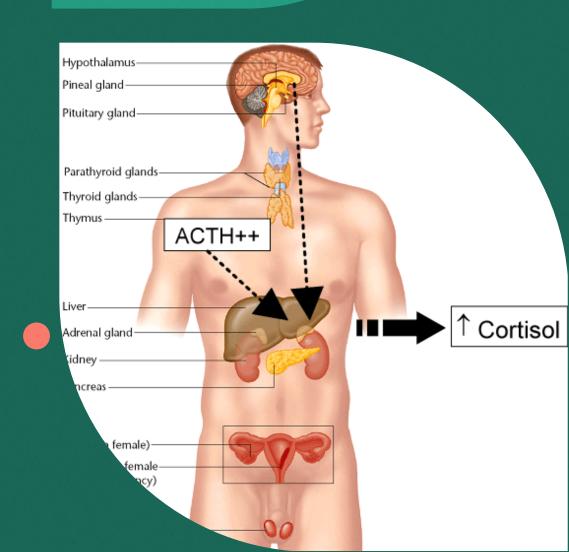




Stress Reset 1 dose every waking hour

7 to 10 days

"direct inhibitory effects of melatonin upon several ACTH responses in the human adrenal gland." PMID: 21332028



"L-Theanine promotes relaxation without drowsiness. Unlike conventional sleep inducers, L-theanine is not a sedative but promotes good quality of sleep through anxiolysis."

2015 PMID: <u>25759004</u>



"The herb of spiritual potency"

250 to 500 mg every waking hour

Ganoderma

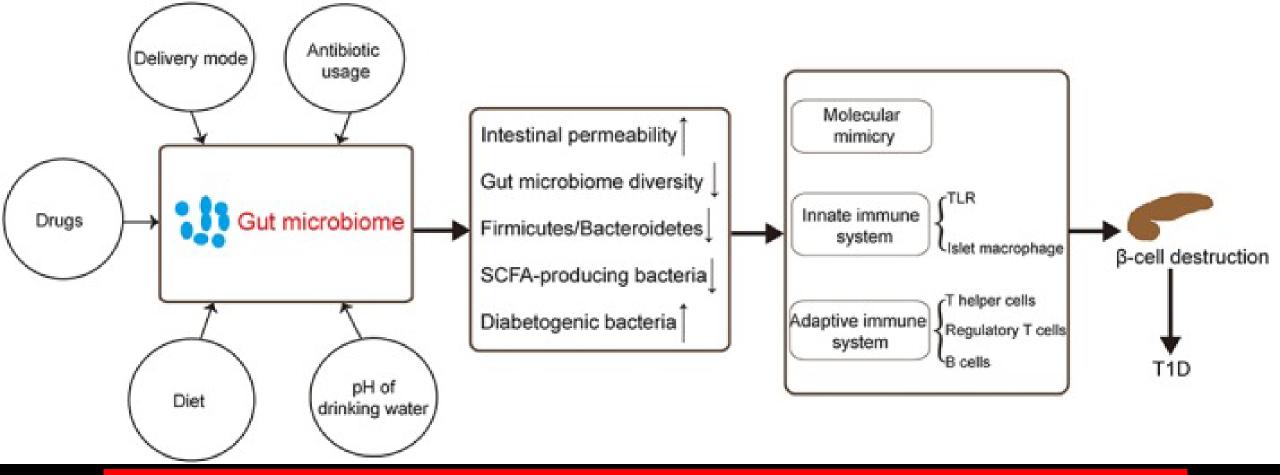
calms the body, (PMID: 29872510)

mind, (PMID: 28933106)

spirit. (PMID: 22593926) Ganoderma lowers serum cortisol

PMID: <u>35627059</u> May 2022





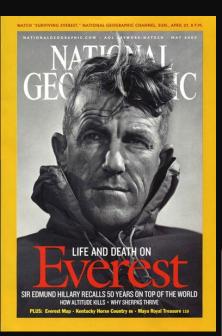
"genetic susceptibility cannot explain the increased incidence of T1D worldwide, which is very likely attributed by the growing impact of environmental factors, especially gut microbiome." PMID: 29929213 2018

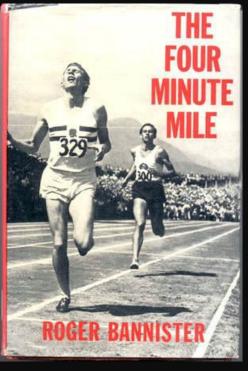


"Long-lasting remission (cure?) of type 1 diabetes following treatment with topiramate (topamax GABA facilitator) for generalized seizures."

Acta Diabetol. 2011 Feb 19.

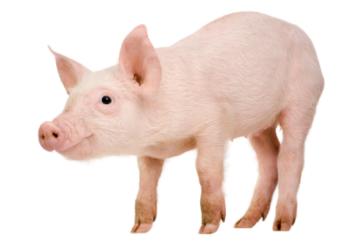
PMID: 21336872





HOW A PIG HEART WAS SUCCESSFULLY TRANSPLANTED INTO A HUMAN FOR THE FIRST TIME

In order to make a pig organ suitable for a human body, scientists inserted six human genes into the genome of the donor pig which was bred specifically for medical research. They also inactivated four pig genes, including ones responsible for the sugar in pig cells which can cause hyper-fast organ rejection and a growth gene to prevent the pig heart from expanding.





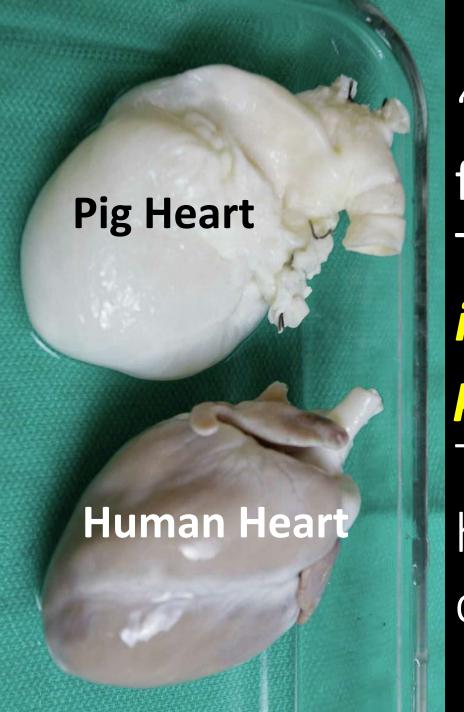
267g



PIG HEART 303g

MARK TESKE/UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE

It took surgeons at the University of Maryland Medical Center nine hours to complete the first of its kind organ transplant. So far, the patient appears to be recovering well. This transplant marks the culmination of decades of research and with further study will hopefully go on to save countless lives across the world.



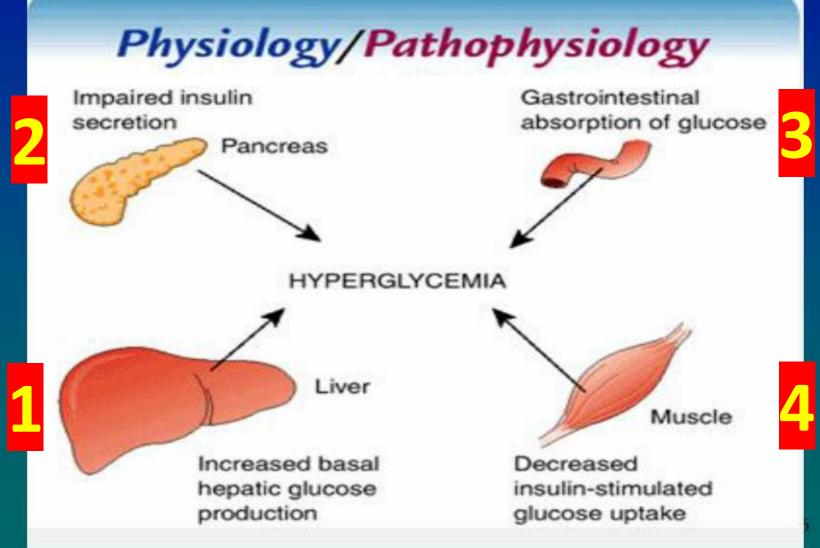
"Removing cells from an organ is fairly simple for scientists like Taylor. Rebuilding the organ by injecting stem cells is the tricky part. But that's exactly what Taylor hopes to do: grow a human heart by injecting human stem cells into a "decellularized" organ."

POTENTIAL USES FOR XENOTRANSPLANTATION PRODUCTS



Pathophysiology
of Type 2
Diabetes

Type 2 Diabetes Mellitus







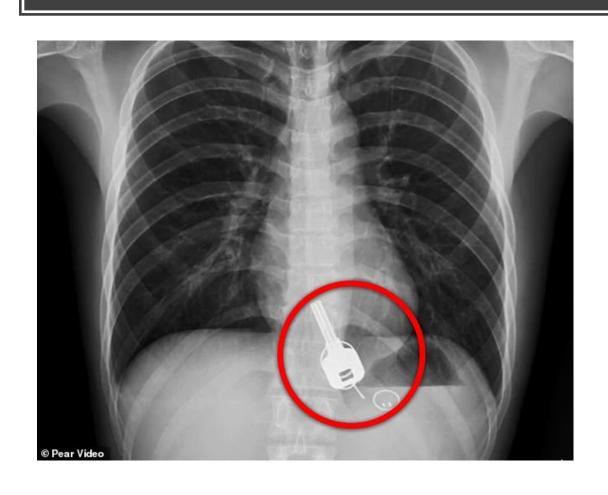
Adrenaline, NorAdrenaline, and Cortisol all oppose the action of insulin.



You are what you eat...



You are what you absorb...





You are what you don't eliminate...



"The Global Alliance on Health and Pollution estimates that toxic pollutants are responsible for 15 percent of all premature deaths worldwide."

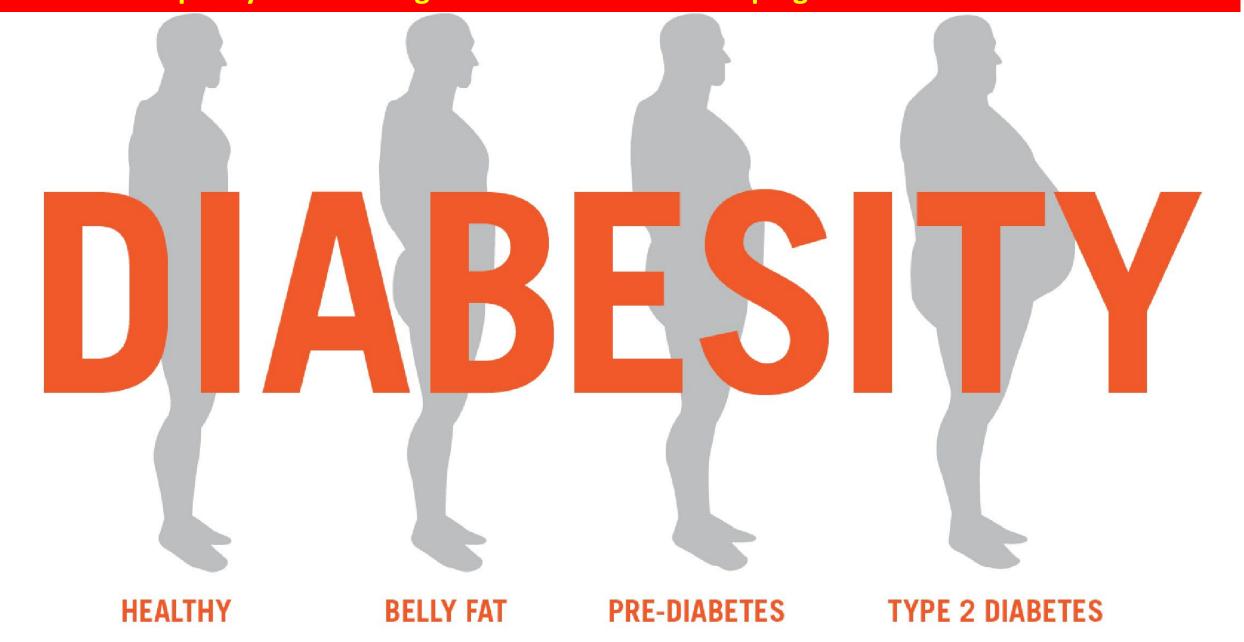


Chemical toxins: a hypothesis to explain the global obesity epidemic

"chemicals are better known for causing weight loss at high levels of exposure but much lower concentrations of these same chemicals have powerful weightpromoting actions"

PMID: 12006126





The Birth of a Field... Environmental Exposures and Obesity



Ballie-Hamilton, Chemical toxins: a hypothesis to explain the global obesity epidemic, (J Alt and Comp Med, 2002)

Endocrine Disruptors and the Obesity Epidemic, Commentary, (Tox Sci, 2003)

2002-2004 Levin and Heindel, Obesity: fetal origins and environmental influences, Duke Integrated Toxicology Program and NIEHS sponsored symposium, 2004

2006

Bruce Blumberg coined "Obesogen" (Grun and Blumberg Mol Endocrinol 2006)

2011-2014 NIEHS Funding Announcement: Role of environmental chemical exposures in the development of obesity, type 2 diabetes, and metabolic syndrome

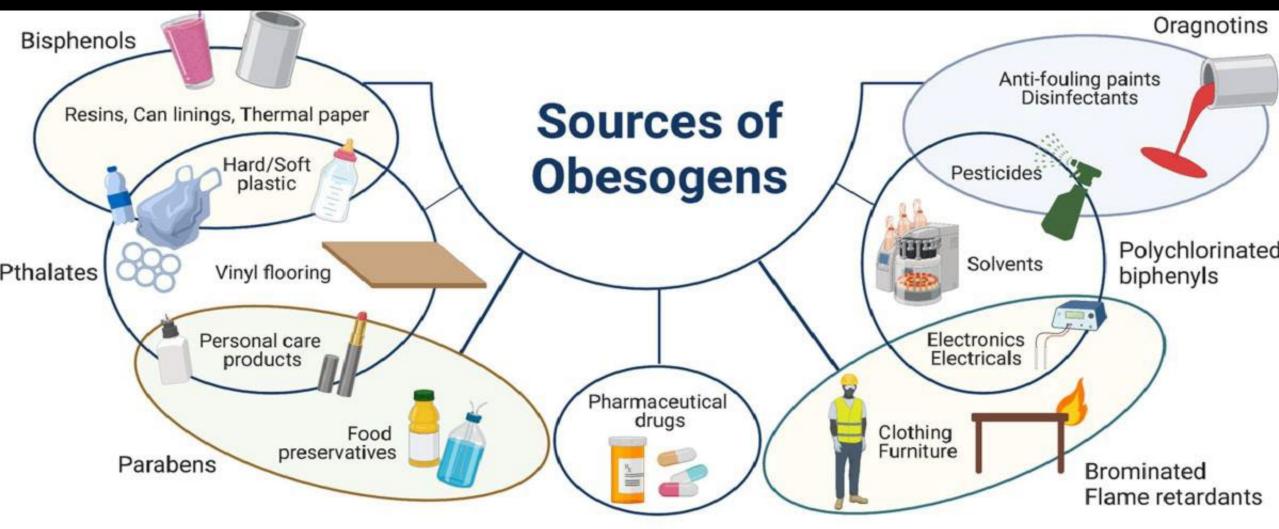
"Finally, since it is now clear that developmental exposures to obesogens/MDCs (metabolism disrupting chemicals) play a role in the obesity epidemic, there needs to be a concerted effort to focus on prevention by reducing exposures during windows of susceptibility and across the lifespan."

PMID: 30761083 2019

2011 NTP Obesity Workshop 2013 Uppsala Obesity Workshop

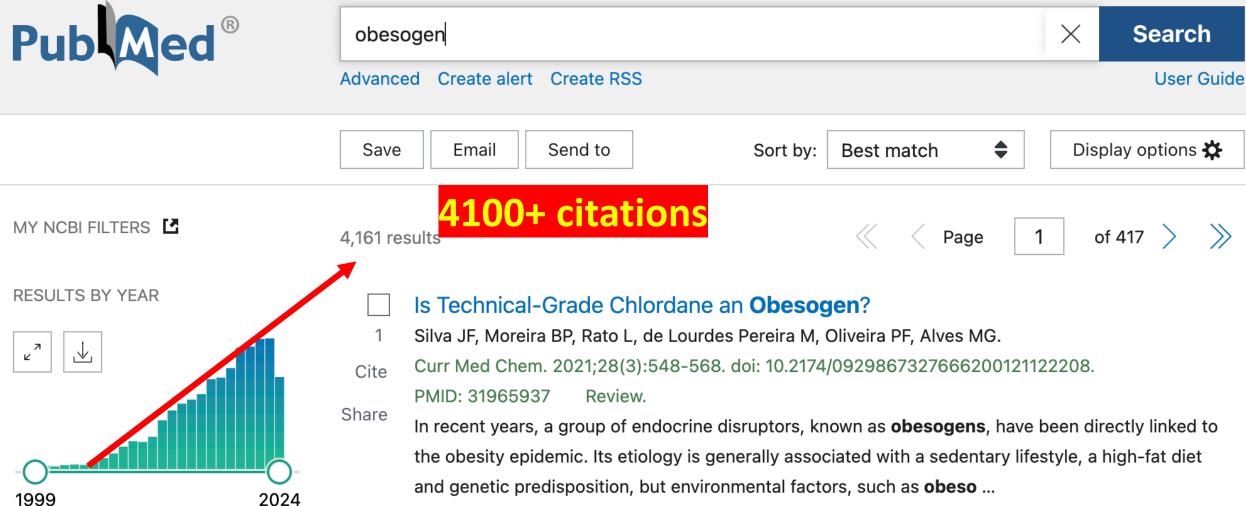
2014 - Metabolic disruptor meeting, Parma

"Obesogens are defined as compounds which cause weight gain. They may act directly to increase the number of fat cells or the storage of fat within the cells."



Non-steroid estrogens





"toxins, both natural and synthetic, that disrupt mitochondrial function"

J Neuropsychiatry Clin Neurosci 12:280-281, May 2000 Below



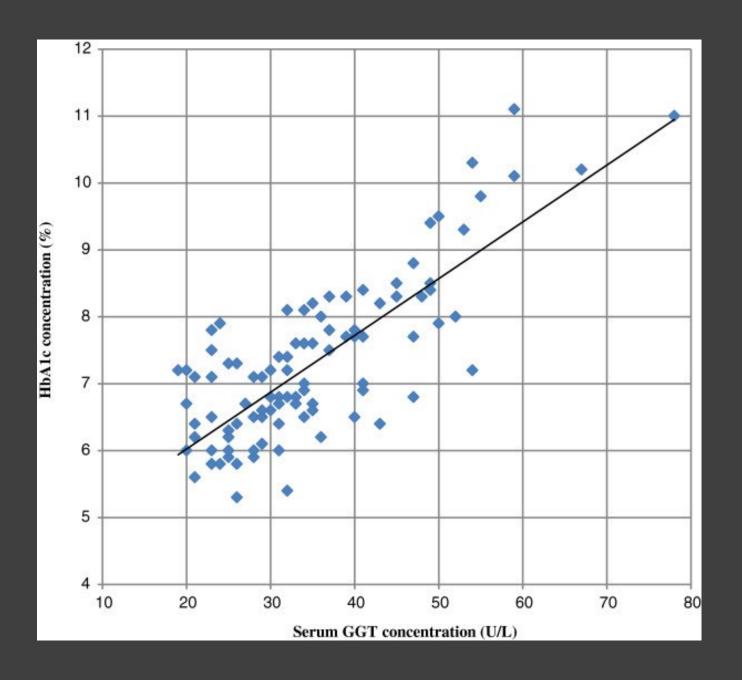
Don't count calories. Do count chemicals!



Dr. Tracey Stroup, ND



Dr. Judy Mikovits, PhD



GGT and HgA1C relationship













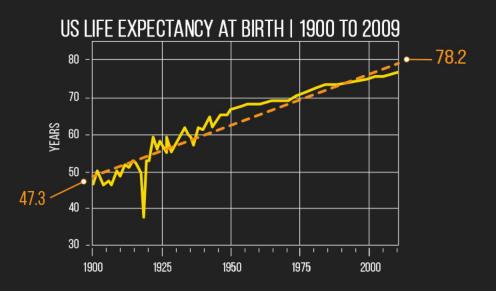


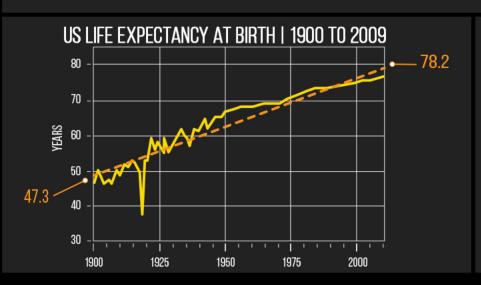


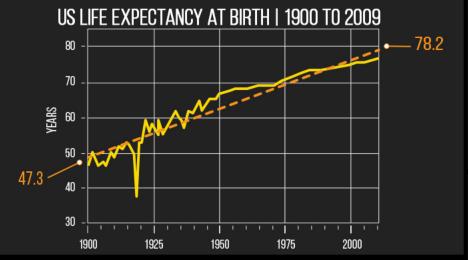




80% OF DEATHS IN 1900 WERE FROM INFECTIOUS DISEASE





















WHAT CAUSED THE BLACK DEATH PLAGUE?

"CONDITIONS IN LONDON WERE IDEAL FOR THE PLAGUE: THE STREETS WERE NARROW AND FLOWING WITH SEWAGE" -WIKIPEDIA



























HORSE MANURE 2.5 MILLION LBS PER DAY!













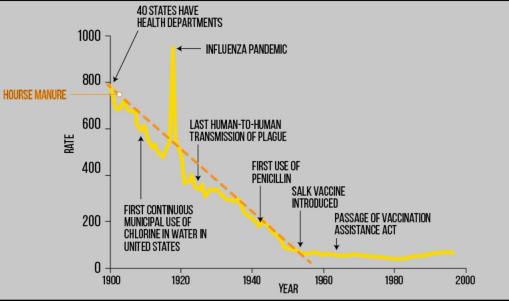


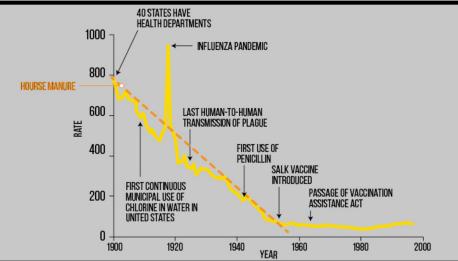


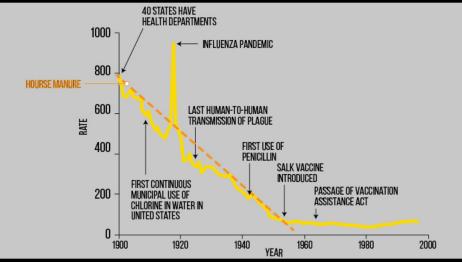




IMPROVED SANITATION & HYGIENE













IF CLEANING UP THE EXTERNAL ENVIRONMENT LEAD TO DRAMATIC INCREASES IN LONGEVITY, WHAT WILL HAPPEN WHEN WE CLEAN UP THE INTERNAL ENVIRONMENT?

IF CLEANING UP THE EXTERNAL ENVIRONMENT LEAD TO DRAMATIC INCREASES IN LONGEVITY, WHAT WILL HAPPEN WHEN WE CLEAN UP THE INTERNAL ENVIRONMENT?



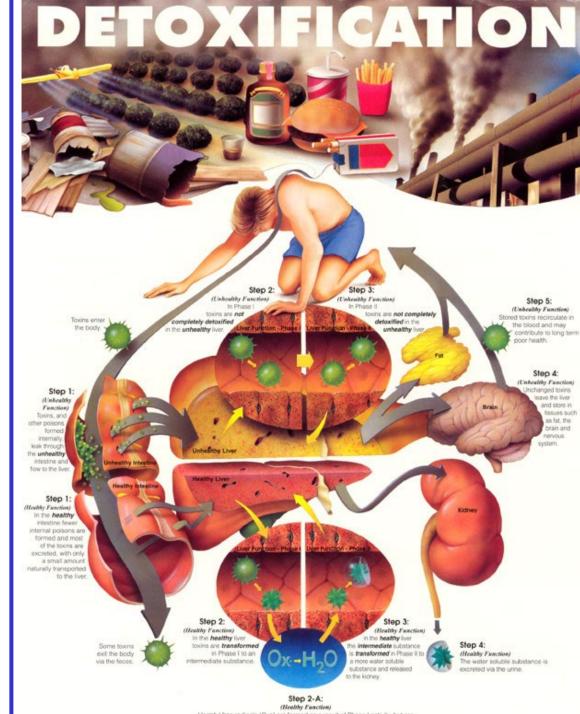


Symptoms of Chronic Poisoning

- 1. Fatigue
- 2. Sleep disturbance
 - 3. GI distress
 - 4. Headaches
- 5. Allergy symptoms
 - 6. Confusion
 - 7. Anxiety

Liang, HK. Clinical evaluation of the poisoned patient and toxic syndromes. Clin Chem. 1996;

42(8B): 1350-1355



HOW BIG IS THE PROBLEM?



HOW BIG IS THE PROBLEM?

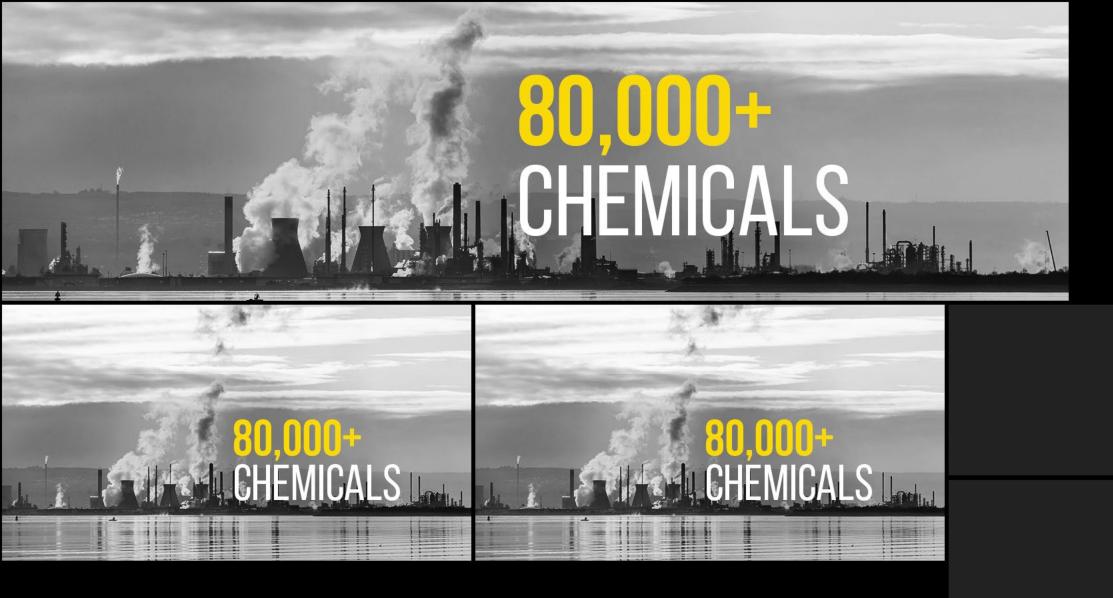


HOW BIG IS THE PROBLEM?





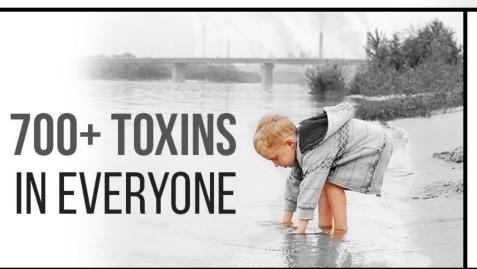








700+ TOXINS IN EVERYONE















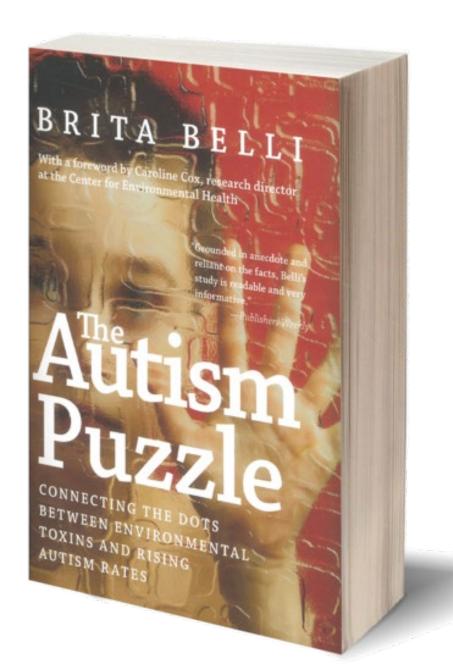




"studies specifically linking autism to (TOXIN) exposures in early pregnancy"

Current Opinion in Pediatrics: 16 January 2010 abstract below





"These findings provide the first biomarker-based evidence that maternal exposure to insecticides is associated with autism among offspring."

PMID: 30111184 2018



(glyphosate autism) AND glyphosate + autism

Search

Advanced

User Guide

Search results

> Clin Nutr ESPEN. 2018 Feb;23:171-183. doi: 10.1016/j.clnesp.2017.10.005. Epub 2017 Dec 1.

Evidence the U.S. Autism Epidemic Initiated by Acetaminophen (Tylenol) Is Aggravated by Oral Antibiotic amoxicillin/clavulanate (Augmentin) and Now Exponentially by Herbicide Glyphosate (Roundup)

Peter Good 1

Affiliations + expand

PMID: 29460795 DOI: 10.1016/j.clnesp.2017.10.005

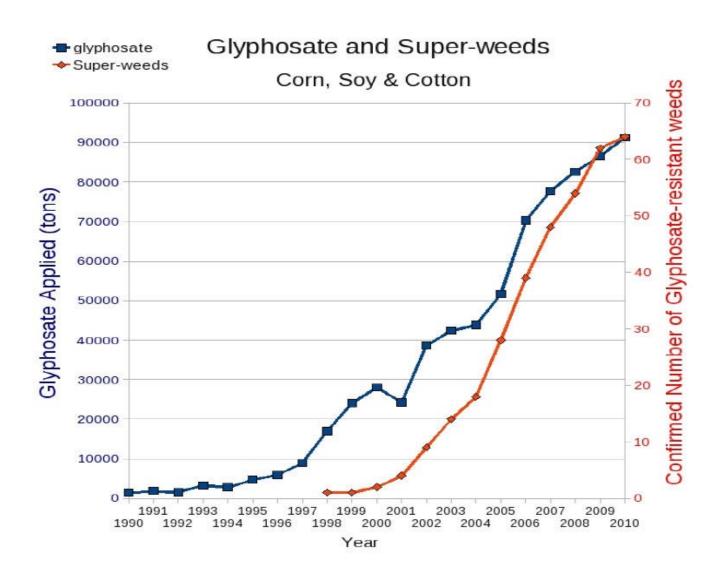
"Two toxins most implicated in the U.S. autism epidemic are analgesic/antipyretic acetaminophen (Tylenol) and oral antibiotic amoxicillin/clavulanate Augmentin). Recently herbicide glyphosate (Roundup) was exponentially

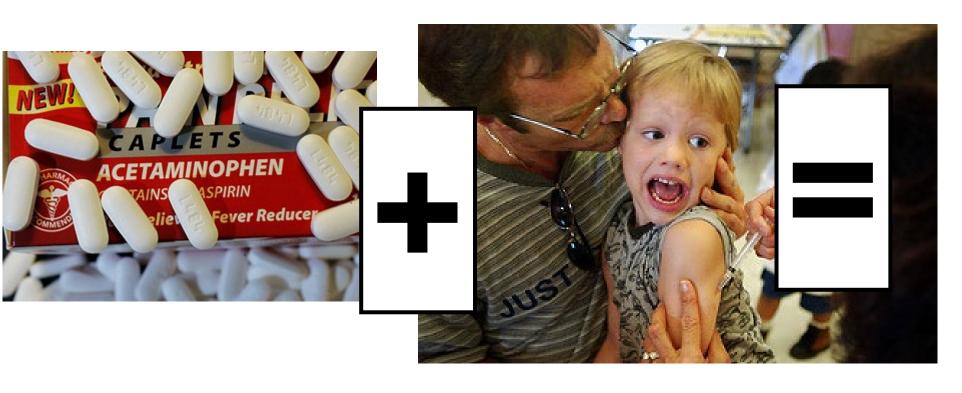
implicated."

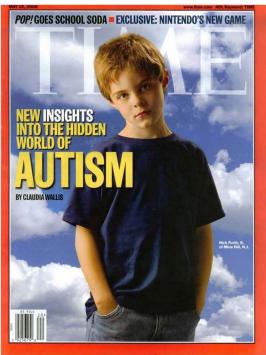
PMID: 29460795

Maternal glyphosate sure causes autism-like behaviors in offspring through increased expression of soluble epoxide hydrolase

2020 PMID: 32398374







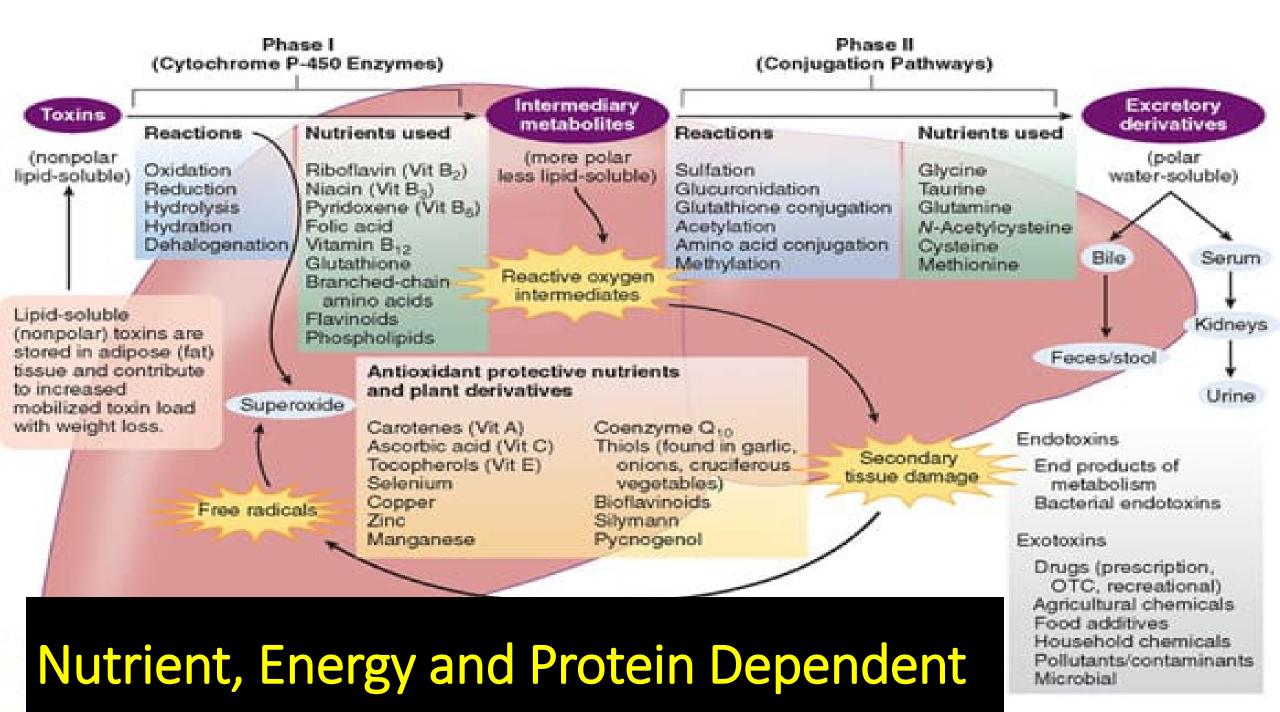
"Acetaminophen use after measles-mumps-rubella vaccination was significantly associated with <u>autistic</u> disorder when considering children 5 years of age or less (OR 6.11, 95% CI 1.42-26.3)" PMID: 18445737

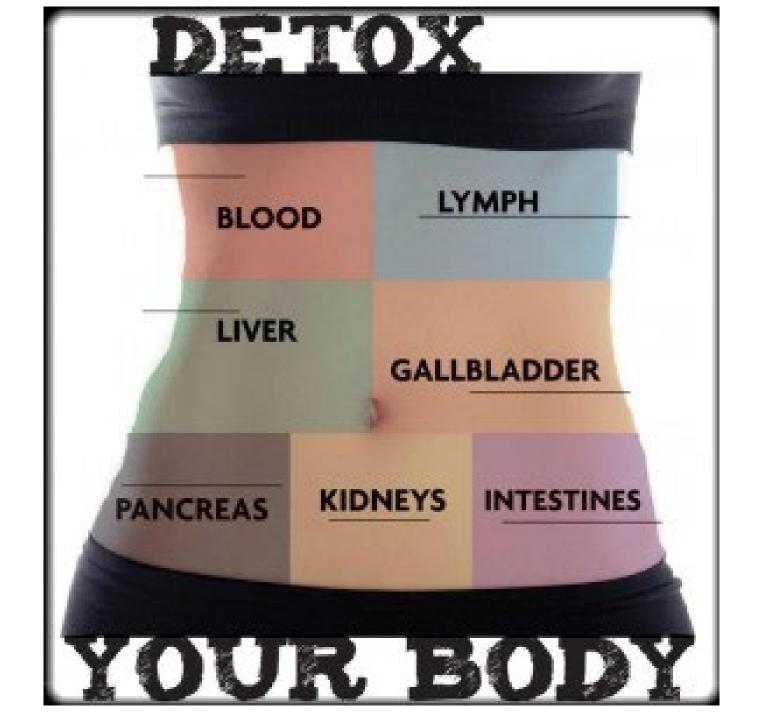


Bodies respond to Frequency, Duration, Intensity,

Quality and Timing of Stimuli







7 to 10 days of detox nutrients and Organic Vegetables

Recommended Twice each year

Organs of Detoxification



- Skin
- Liver
- Intestines
- Kidneys
- Lungs

Intense week

short term

easy to do,

you have nothing to lose,

the results can be dramatic,

slow and steady rarely creates this type of change

Mark Hyman



DETOXIFICATION PATHWAYS

Toxins \rightarrow Phase 1 \rightarrow Phase 2 \rightarrow Phase 3 \rightarrow Phase 4

REQUIRED NUTRIENTS B Vitamins Folic Acid Glutathione Antioxidant DETOXIFICATION Milk Thistle **Carotenoids**

Vitamin E

Vitamin C

REQUIRED NUTRIENTS Amino Acids

Cruciferous Veggies

(garlic, onions, broccoli, etc.)

LivComplete

NUTRITIONAL FRONTIERS

NUTRITIONAL

Ultimate Shake



Gallbladder



Kidneys





Urine



metabolic end products, micro-organisms, contaminants/pollutants, insecticides, pesticides, food additives, drugs, alchohol





NutritionalFrontiers.com cbdnf.com (412) 922-2566



Waste Products

Eliminated from

the body via:









FOOD & HUNGER

Malnutrition Is the Leading Cause of Death Globally: Report

The ongoing pandemic could deepen the crisis.

Why Global Citizens Should Care

The malnutrition crisis facing the world is also a health, educational, and economic one. The United Nations encourages countries to eliminate hunger by 2030 as part of Global Goal 2. You can join us in taking action on related issues here.

A broken food production system that favors industrial agriculture is endangering the health of humanity and the planet, according to a new report.

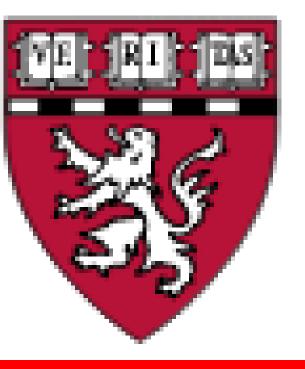
The Global Nutrition Report 2020, released on Tuesday, revealed that the various forms of malnutrition — underweight, undernourished, overweight, and obese — have become the leading causes of death and illness worldwide. At the same time, access to health care, preventative treatment, and nutritious food options are out of reach for the world's most vulnerable communities.

2020: Malnutrition is the leading cause of death!!!

"the more food is processed, the lower its satiety potential and nutrient density and the higher its glycemic impact"

PMID: 28106215 2017



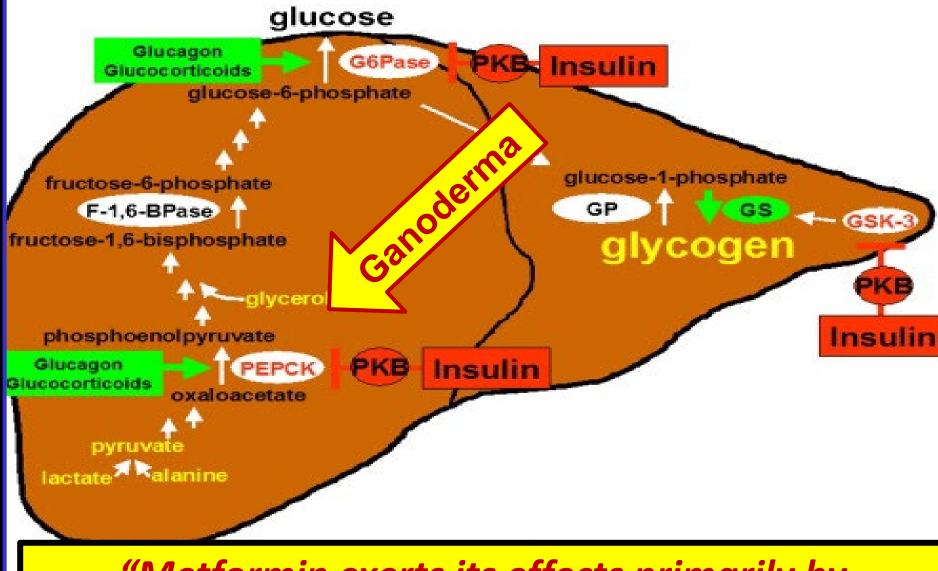


Harvard Health Publishing

Metformin is a tried and tested medicine that has been used for many decades to treat type 2 diabetes, and is recommended by most experts as first-line therapy. It is affordable, safe, effective, and well tolerated by most people.

"G. lucidum (Ganoderma lucidum) consumption can provide beneficial effects in treating type 2 diabetes mellitus (T2DM) by lowering the serum glucose levels through the suppression of the **hepatic PEPCK** gene expression."

PMID: 19109000



"Metformin exerts its effects primarily by decreasing hepatic glucose output"

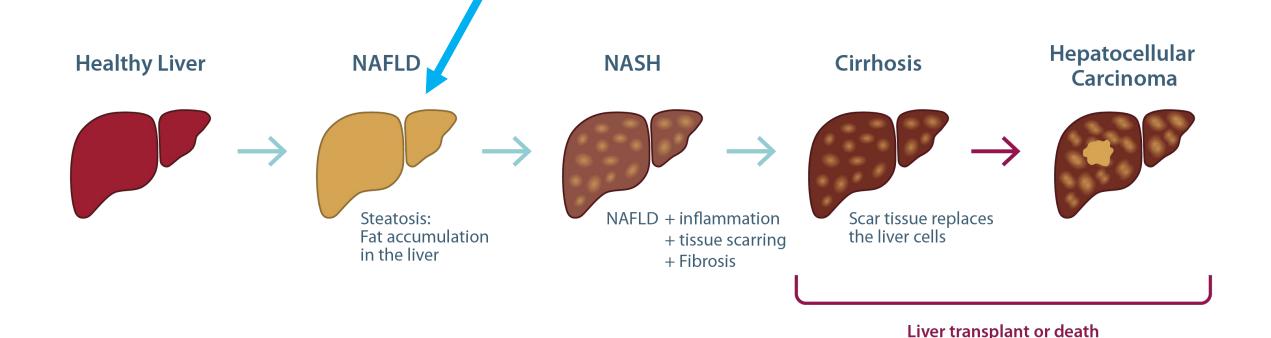
Clinical Diabetes October 2007 vol. 25 no. 4 131-134

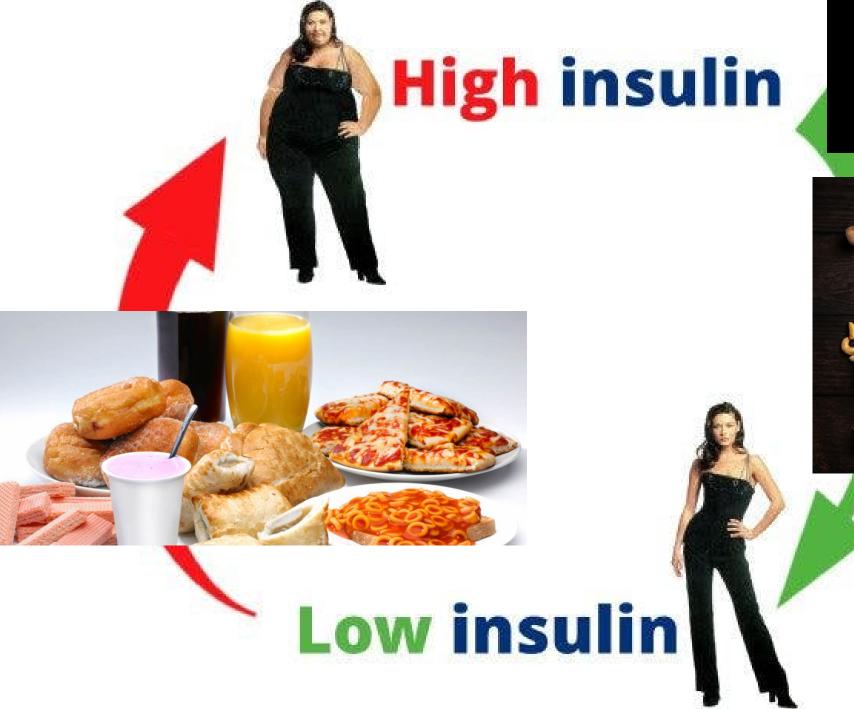
"Kaplan-Meier analysis showed a cumulative incidence of monotherapy failure at 5 years of 15% with rosiglitazone, 21% with metformin, and 34% with glyburide."

PMID: 17145742



Type 2 Diabetics have 5x the probability of Non Alcoholic Fatty Liver Disease. This can progress to liver Cancer to Cirrhosis or even cancer. PMID: 32485838





Ganoderma improves insulin resistance and reduces body fat. *PMID: 31717970*





"In the sea of diet/lifestyle books available to readers, The Schwarzbein Principle is one of the most balanced, sensible and effective programs. The Schwarzbein Principle cookbooks are prominently placed in my kitchen. I applaud Dr. Schwarzbein's revolutionary yet realistic approach to food."

—Christiane Northrup, M.D.

author, The Wisdom of Menopause and Women's Bodies, Women's Wisdom

THE SCHWARZBEIN PRINCIPLE

The Truth About LOSING WEIGHT, BEING HEALTHY AND FEELING YOUNGER

Lose body fat and transform body composition

Improve metabolism

Prevent and correct chronic conditions and diseases

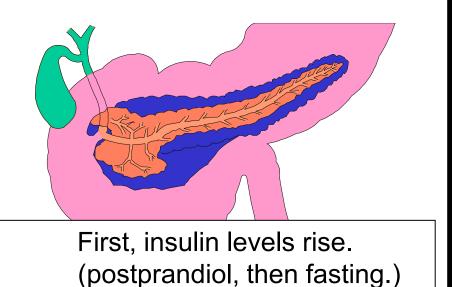
Reverse accelerated metabolic aging

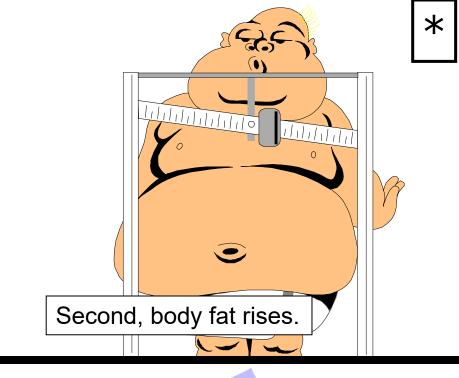
Quit addictions and food cravings

Cure depression and mood swings

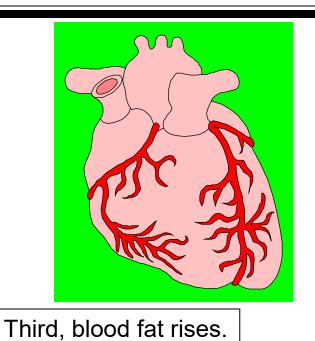
Diana Schwarzbein, M.D. Nancy Deville

Progression of Dysglycemia





Diana Schwarzbein, M.D.



Fourth, Glucose rises.

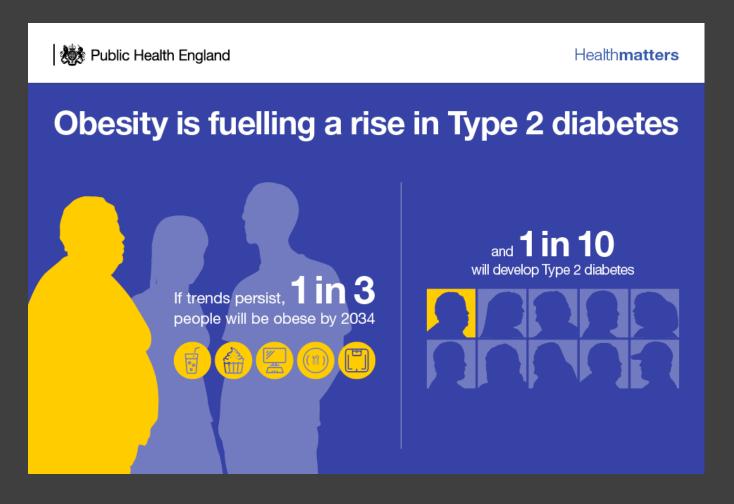
"You cannot store fat in the fat cells without the presence

of insulin"http://www.healthy-eating-politics.com/research-on-obesity.html



"approximately 90% of people with type 2 diabetes are overweight or obese, obesity is seen as a significant contributory factor in its development." PMID: 20647979

Type 2 Diabetes

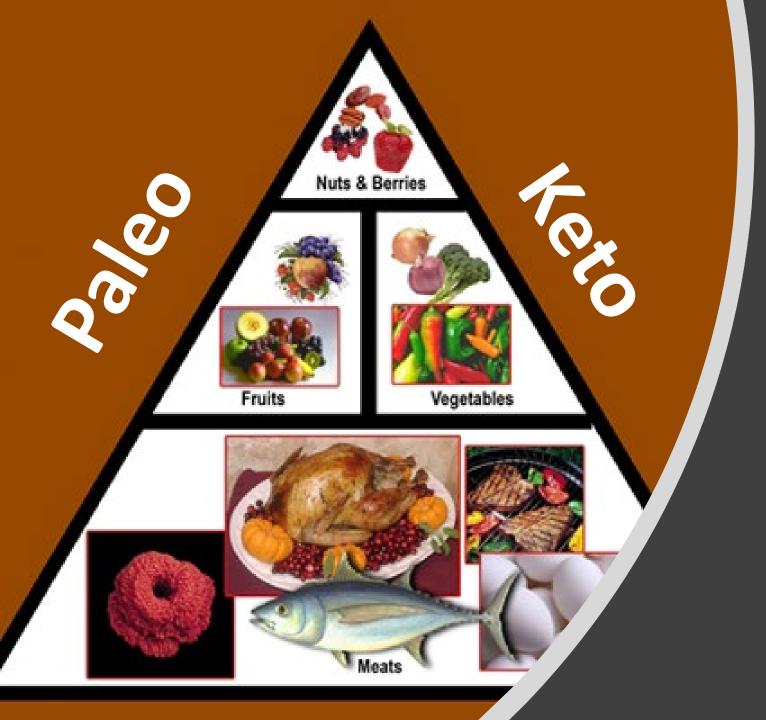




"Here are the best statistics and facts on weight loss you need to know to jumpstart your own fitness journey. 72% of Americans gained weight due to the lack of exercise in 2020."

loudcloudhealth.com/resources/weight-loss-statistics/





Leans, Greens, Nuts and Seeds

if it is WHITE, keep it out of SIGHT



Eat

Real food, Clean food, not too much, not too often, every color, ever day, in a way that honors your physiology, your genetics, and your body goals, mostly plants...



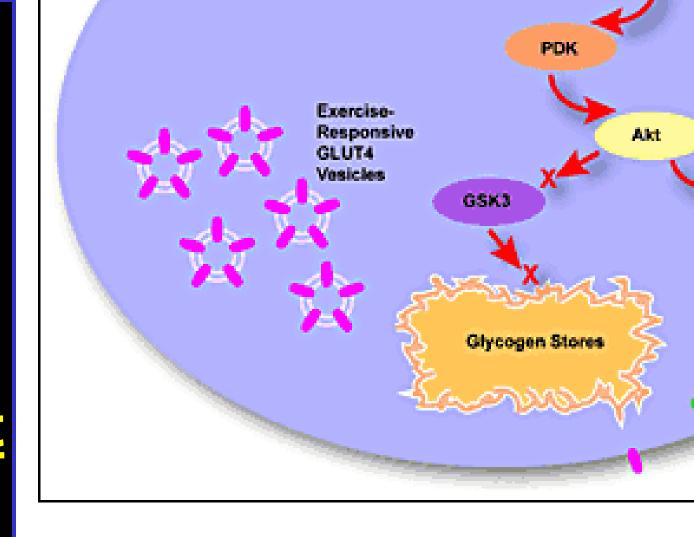






"In individuals with type II diabetes, a single bout of exercise can reduce blood glucose concentrations. (83)"

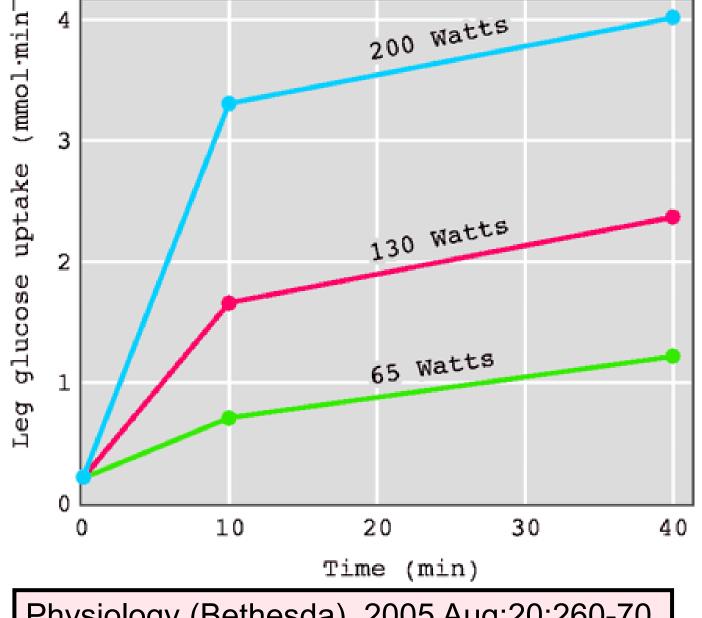
"movement of **GLUT4** to surface membranes and the subsequent increase in transport by muscle contractions"



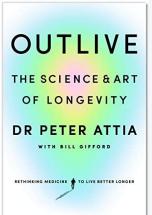
Physiology (Bethesda). 2005 Aug;20:260-70. PMID: 16024514 article below

wski 2008

FIGURE 1. Skeletal muscle glucose uptake increases substantially during dynamic exercise. The increase is dependent mainly on exercise intensity but also on exercise duration. Adapted from Wahren et al. (131).



Physiology (Bethesda). 2005 Aug;20:260-70. PMID: 16024514 article below

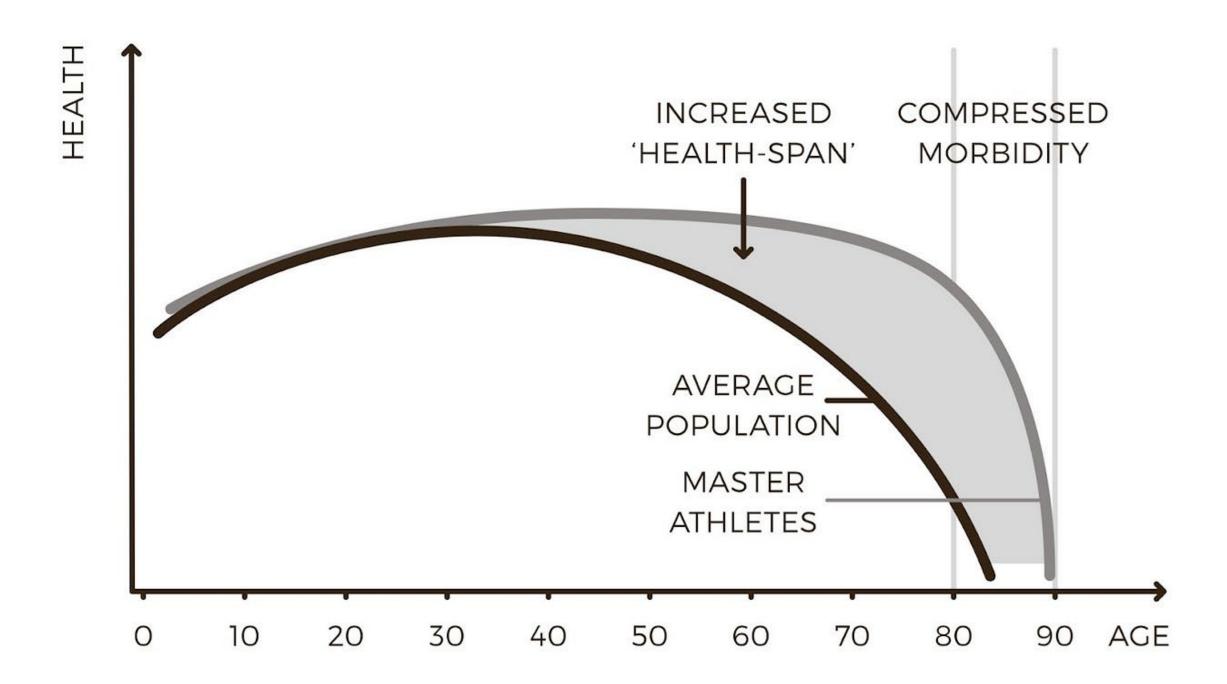




Exercising for Longevity

Exercise might be the most potent "drug" we have for extending the quality and perhaps quantity of our years of life.





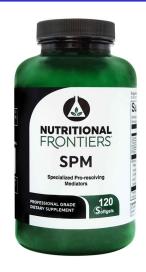




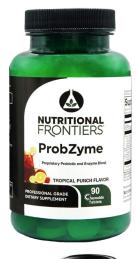


Diabesity Protocol





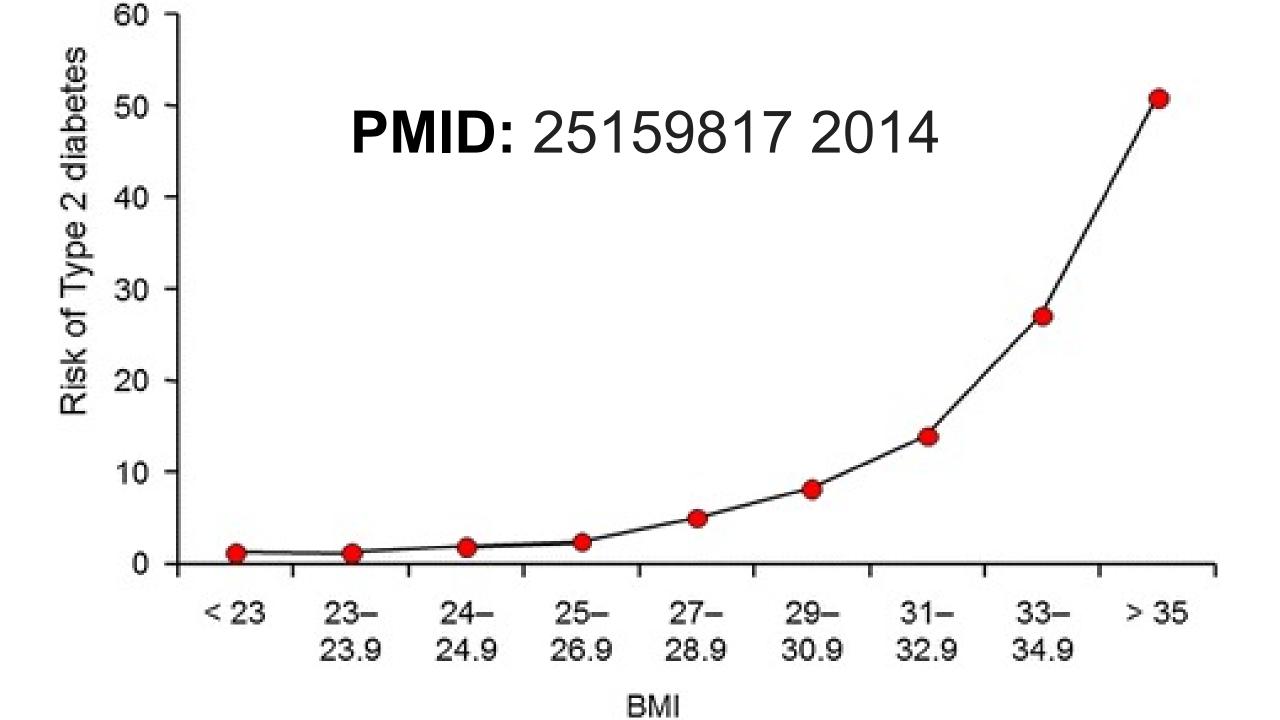












SUPPLEMENTS & PROTOCOLS



Thermogenesis Complete 3 capsules a day



NutraGlutide 2 capsules a day



Tone & Lean CLA 4-6 softgels a day



Control 3 capsules a day



Best Whey/Super Shake

Add 1 scoop of mix to 8oz of water or almond milk and shake as a meal replacement

FOOD

Fish

- Fish may be eaten once a day as long as it is wild caught and free from PCB's, mercury, and other heavy metals and environmental contaminants.
- Prepare fish by steaming, baking, broiling, or poaching. Not fried!

Meat

- Avoid meat and poultry for the most part. These foods are high in arachidonic acid, which increases inflammation.
- If you do eat meat, make sure it is organic, free range, and red meat, MUST BE "grass-fed and grass finished."
- · Prepare by broiling or baking, not frying!
- · With chicken, avoid eating the skin.
- No pork.
- · Wild game meats, lamb and bison are also acceptable choices.

Vegetables

- Vegetables, along with permissible grains, will make up the bulk of your diet for the time being.
- Prepare by steaming, mostly. You may also eat your veggies raw, baked, or roasted.
- Variety is great. Some especially healthy veggies are dark greens like kale, collards, chard, dandelion leaves, spinach, beet greens, and rapini.
 Also don't forget about broccoli, cauliflower, squashes, turnips, radish, beets, cabbage, artichokes, parsnip, cucumber, napa, etc.
- Some people feel healthier avoiding vegetables from the nightshade family: tomato, eggplant, mushrooms, potato, bell peppers.

Nuts and Seeds

- Walnuts, soy nuts, pumpkin seeds, sunflower seeds, almonds, Brazil nuts, sesame seeds are permissible in moderation.
- About ½ a cup of nuts or a few tablespoons of nut butter is ok.
- Rotate the nuts daily.
- It is preferable to buy raw and organic nuts. Store in your fridge and either eat raw, or toast them yourself prior to eating. However, peanuts should only be eaten roasted, not raw.

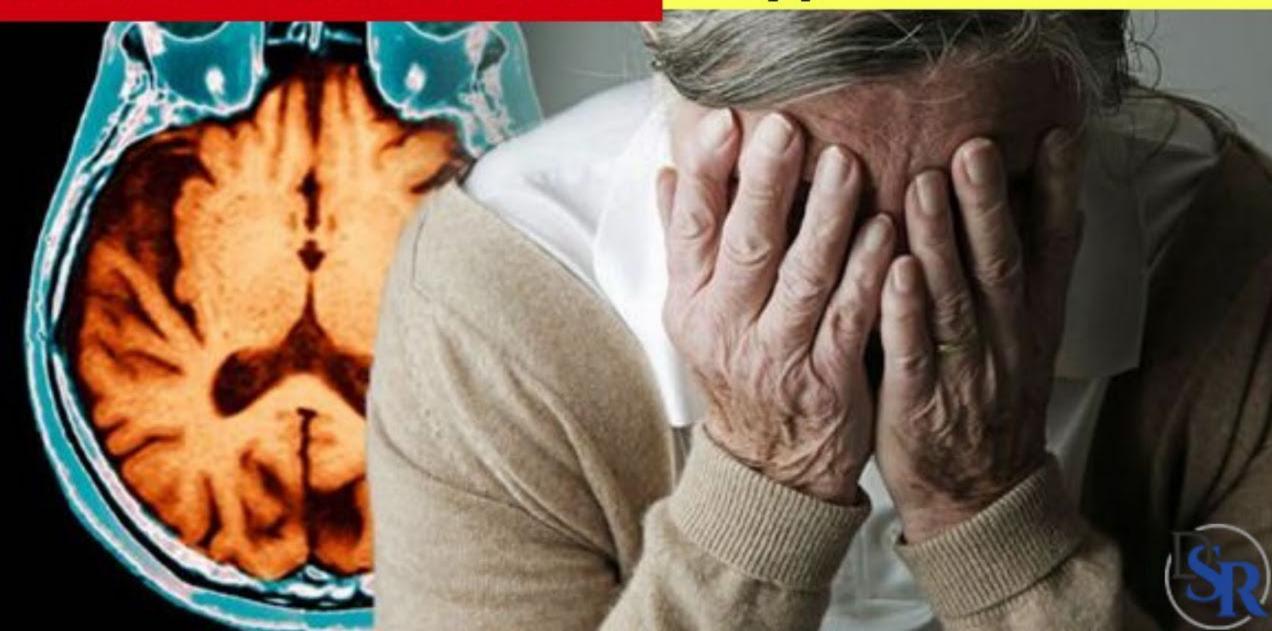
Fruit

- Avoid oranges.
- Other fruits: You can eat 1 or 2 pieces per day, or ¾ cup. However, if you have diabetes, pre-diabetes, or insulin resistance, discuss fruit intake with your healthcare practitioner, as you may be required to minimize fruit intake.

Appetite Control and Accelerated fat loss

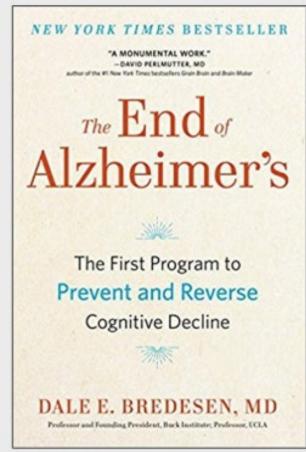
ALZHEIMER'S IS

Type 3 Diabetes



3 distinct zones of cells, dead, fine, functional but not functioning.

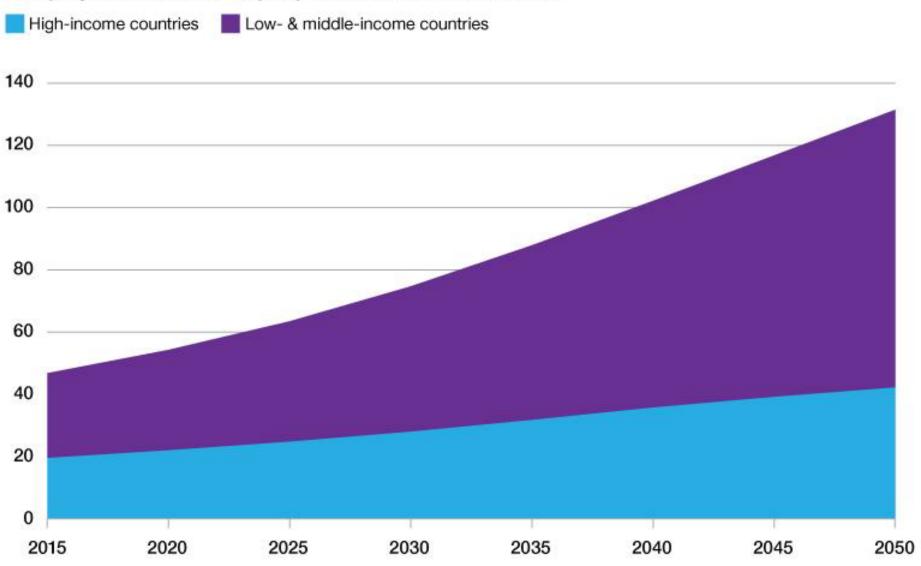






A Growing Health Crisis

The projected number of people with dementia, millions



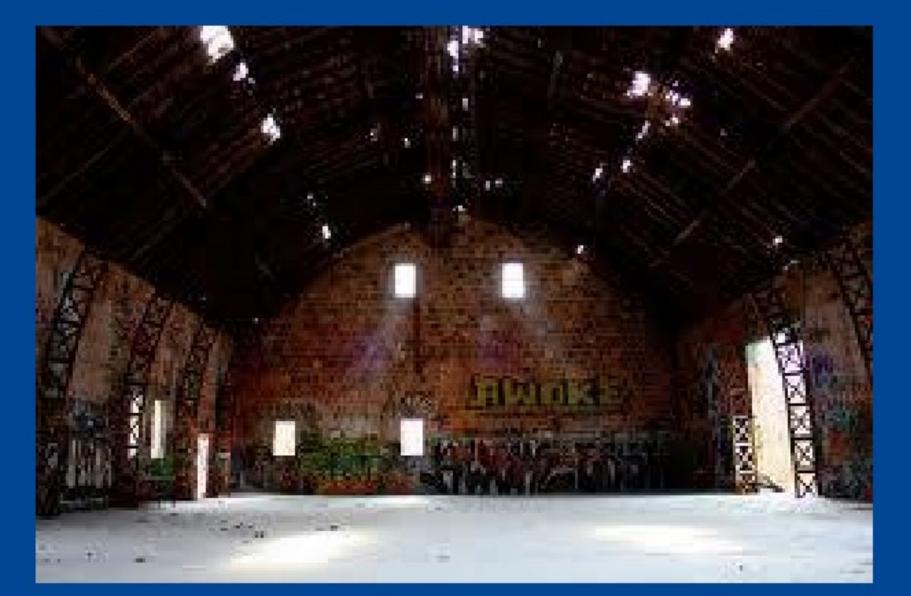
Source: Alzheimer's Disease International - World Alzheimer Report 2015



"Unpaid caregivers average more than 100 hours a month looking after the needs of seniors with dementia"

A roof with 36 holes...

3 categories, Toxins, Inflammation, Growth Factors



36 Mechanisms

- 1. Decrease Aβ production
- 2. Increase AB degradation
- 3. Decrease AB oligomerization
- 4. Increase BDNF (Brain Derived Nerve Factor)
- 5. Increase NGF (Nerve Growth Factor)
- 6. Increase G-CSF
- 7. Increase ADNP
- 8. Decrease p-tau
- 9. Decrease homocysteine
- 10. Build synapses
- 11. Decrease 4/2
- 12. Increase Aβ breakdown
- 13. Increase A/G Ratio (Albumin/Globulin)
- 14. Decrease Inflammation
- 15. Inhibit NF-kB
- 16. Increase GSH (glutathione)
- 17. Increase antioxidants
- 18. Decrease Iron (& decrease copper, increase zinc
- 19. Increase CBF
- 20. Increase ACh
- 21. Increase α 7 signaling
- 22. Increase Aβ transport
- 23. Increase Aβ clearance
- 24. Decrease ApoE4 effect
- 25. Increase GABA
- 26. Decrease NMDA
- 27. Optimise hormones
- 28. Increase vitamin D
- 29. Decrease pro-NGF
- 30. Decrease caspase-6
- 31. Decrease N-APP
- 32. Increase Memory
- 33. Increase Energy
- 34. Increase Mitochondrial function
- 35. Increase Mitochondrial protection
- 36. Re-Vitalize Neurons

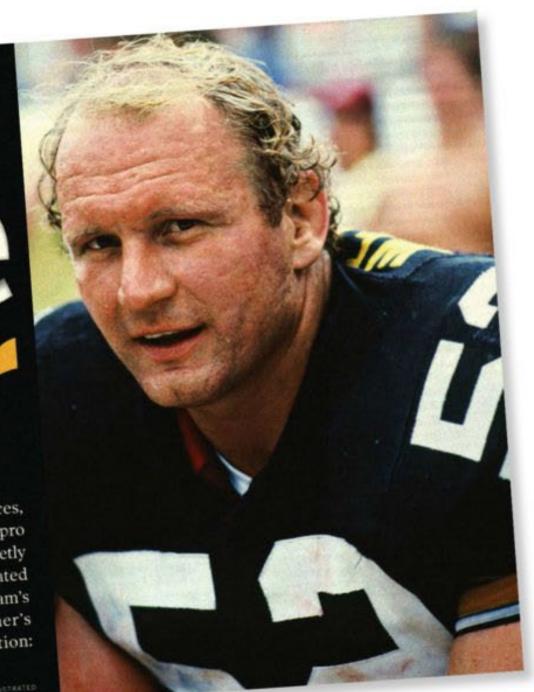


Football made Mike Webster a hero—and left him a shattered man

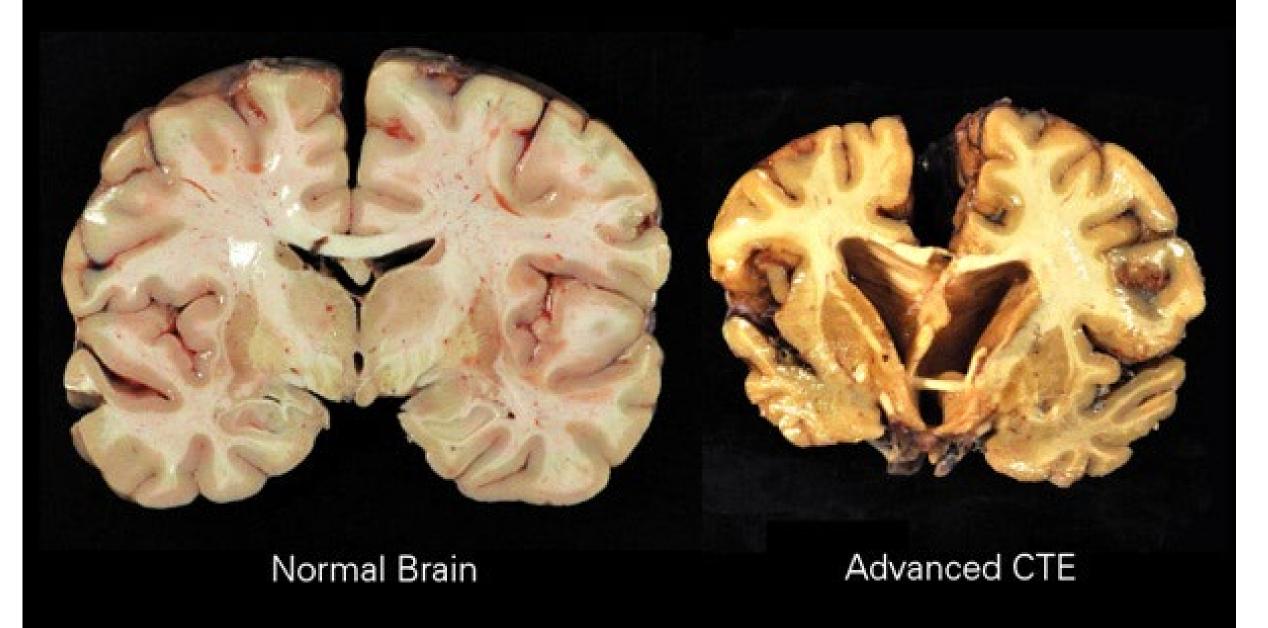
Game

BY MERYL GORDON

AT THE Pittsburgh Steelers executive offices, overlooking the manicured field where the pro football team practices, Mike Webster's sweetly smiling photo stands out on a wall decorated with glowering tough-guy shots of the team's other famous players. The Hall of Famer's sheer fortitude is celebrated in the caption:



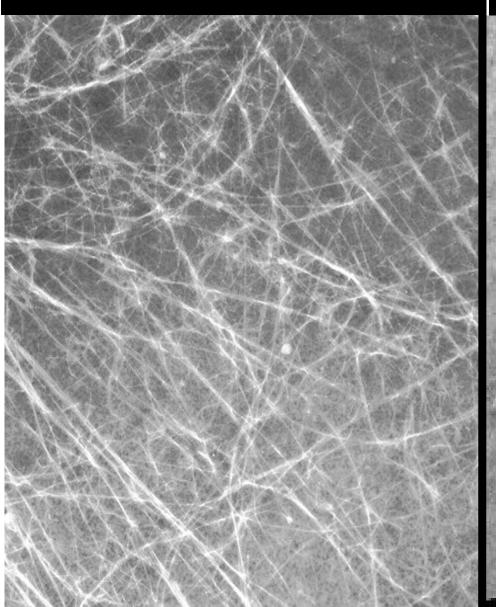




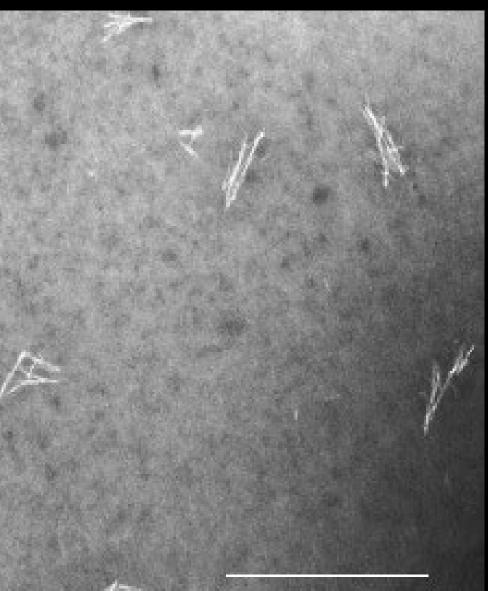
Source: Boston University Center for the Study of Traumatic Encephalopathy

HISTORY VSHOLLYWOOD.COM - CONCUSSION

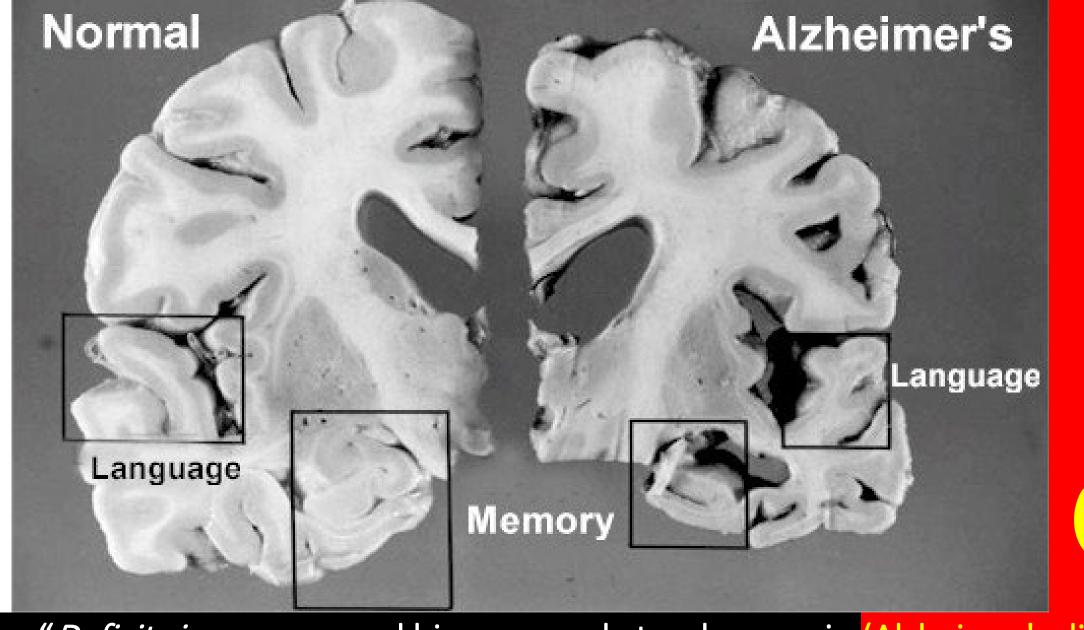
Amyloid Plaque – no treatment



21 days of Treatment



"Conclusion The ganoderma lucidum preparation can dissolve and decline or dismiss the senile plaques and neurofibrillar tangles in the brain of AD (Alzheimer's disease) mice and also reduce the amyloid angiopathy." PMID: 28877835



"Deficits in memory and hippocampal atrophy seen in (Alzheimer's disease) AD have been associated with hypercortisolism" PMID: 18774653



User Guide





enviromental toxins + alzheimers



Advanced

"Exposure to metals and biotoxins produced by bacteria, molds, and viruses may contribute to the cognitive decline and pathophysiology associated with AD."

Review

> Neurochem Int. 2020 Dec;141:104852. doi: 10.1016/j.neuint.2020.104852.

Epub 2020 Sep 30.

Environmental toxins and Alzheimer's disease progression

Maryam Vasefi ¹, Ehsan Ghaboolian-Zare ², Hamzah Abedelwahab ², Anthony Osu ²

Affiliations + expand

PMID: 33010393 DOI: 10.1016/j.neuint.2020.104852

FULL TEXT LINKS

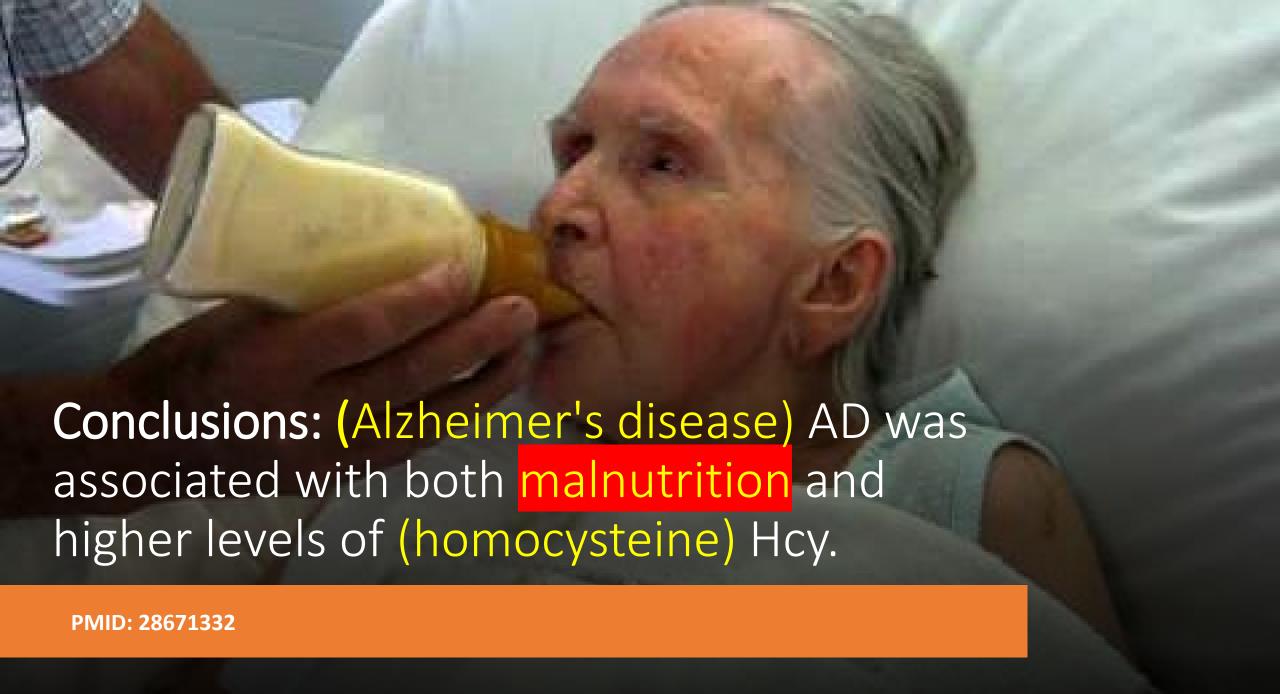


ACTIONS





CHVDE







Most active seniors -49% reduction Alzheimer's

American Journal of Epidemiology 2005 161(7):639-651; below





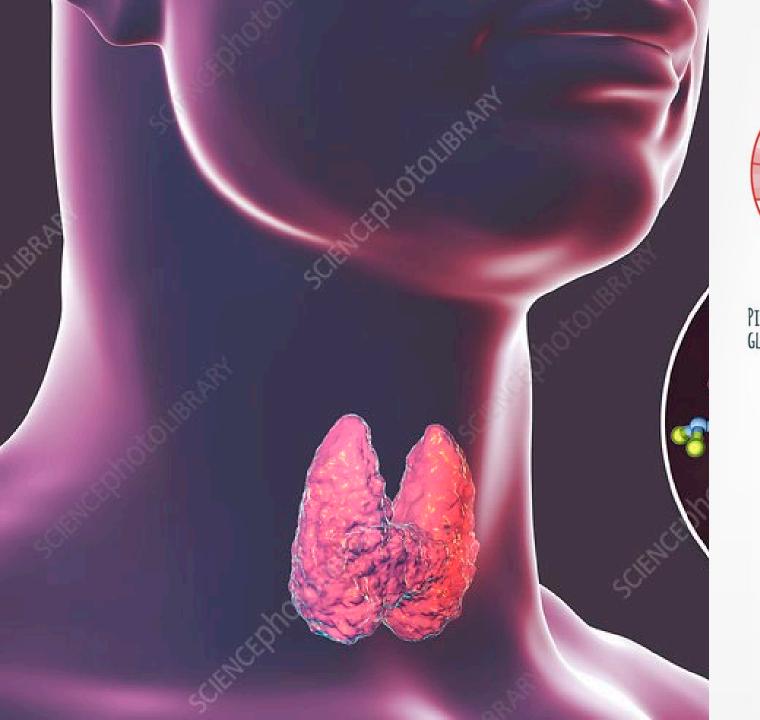
Severe Memory Loss with progressive Decline

One lower limb lost to Diabetes

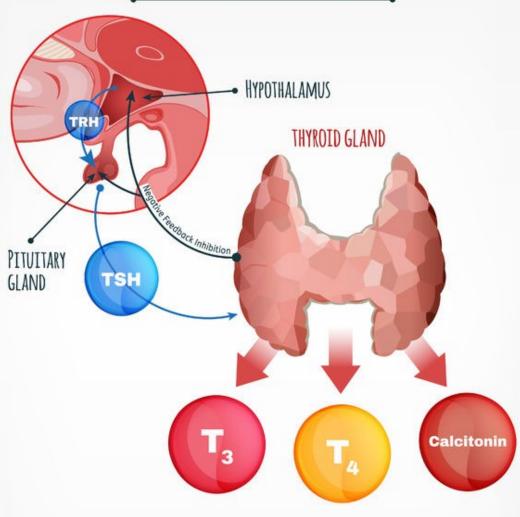
Remaining foot severely infected

Infection completely resolved at 2 weeks and memory restored after 3 months





THYROID GLAND HORMONES



TRH - THYROID RELEASING HORMONE

TSH -THYROID RELEASING HORMONE

T₃ - TRIODOTHYRONINE HORMONE

T4 - THYROXINE HORMONE



Why **Eating** Less and **Exercising More May not** be enough...

Calories in = Calories Out (the food we eat) (the energy we burn) blood sugar levels exercise hormone levels % lean body mass % body fat nutrient balance emotional state gut bacteria food environment

Metabolism is Complex...

GLOBESITY



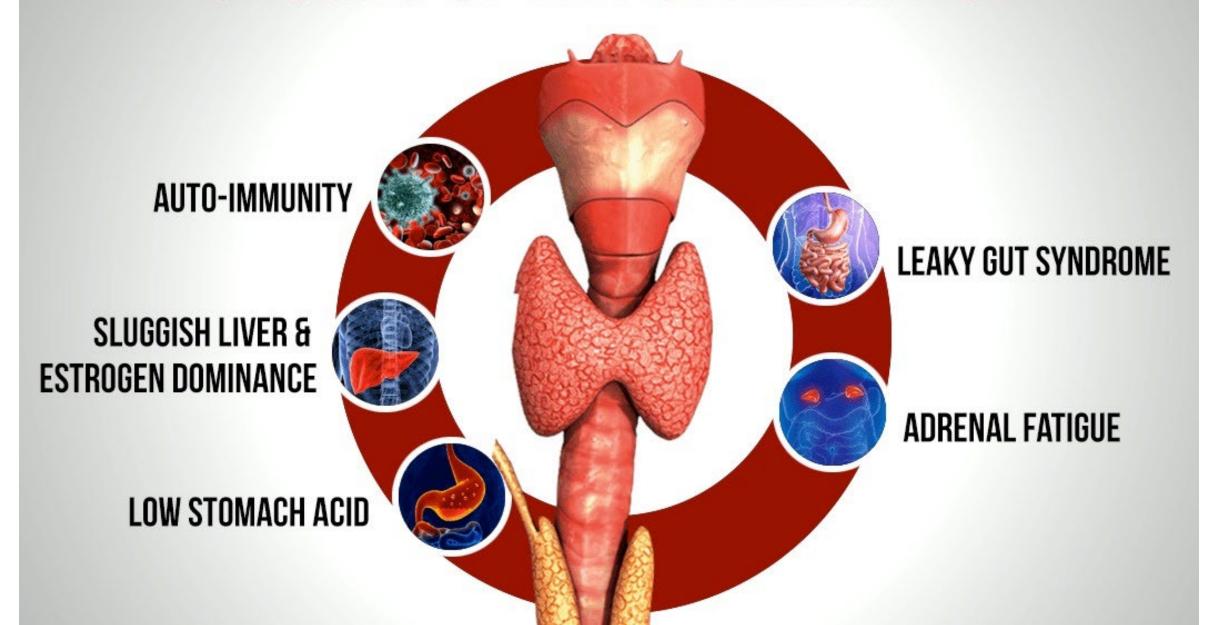
Fat-Burning Body

Fat-Storing Body

PMID: 31717970



CAUSES OF HYPOTHYROIDISM



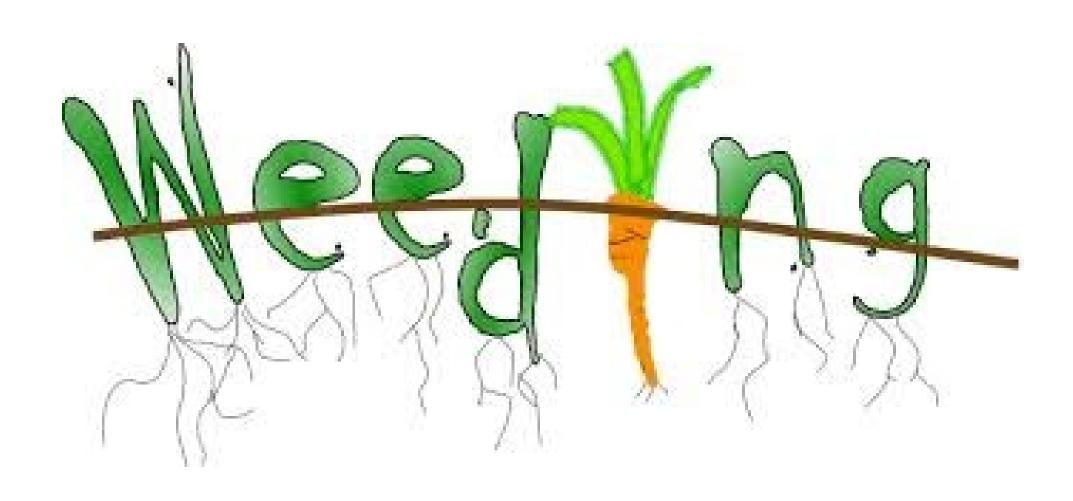




I thought that my immune system was created to protect me?



"autoreactivity is physiologic³ and crucial to normal immune function." NEJM PMID: 11759654



Sasha McHale's death brings attention to little-understood autoimmune disease

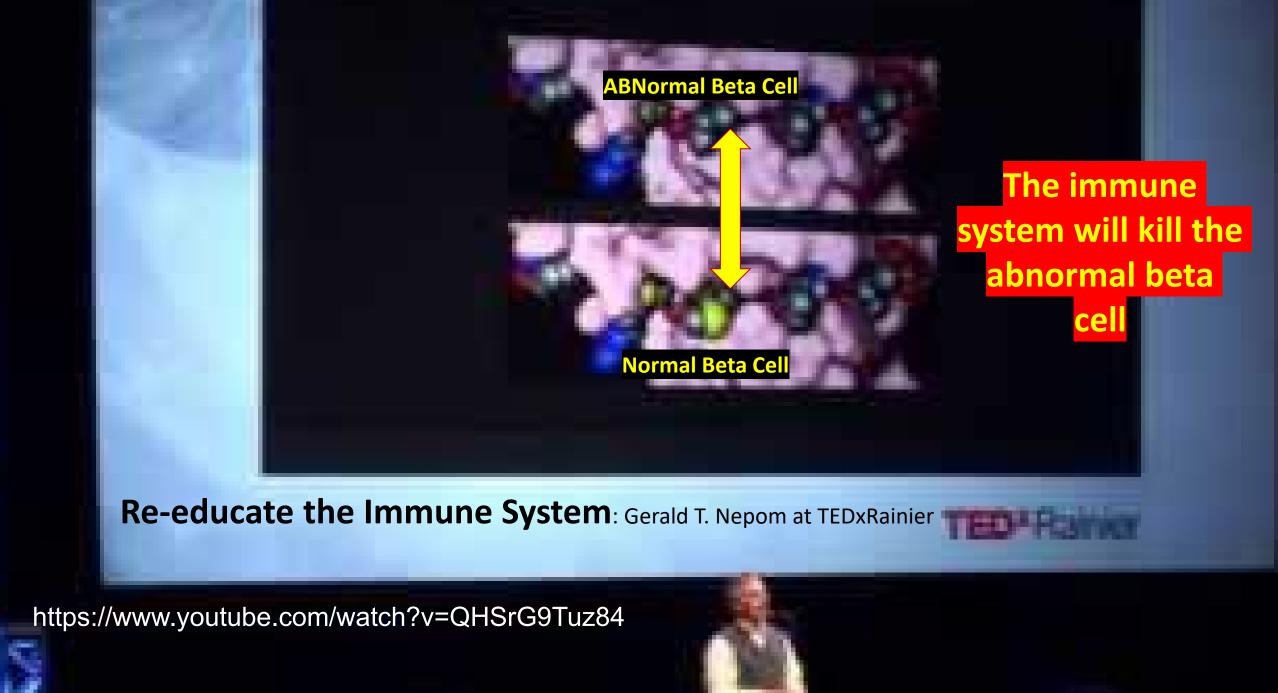
By Susan Perry | 11/30/2012

Courtesy of the McHale Family

Sasha McHale, the daughter of former Timberwolves coach and vice-president Kevin McHale, died in Minneapolis on November 24 of lupus-related complications.

"Sasha McHale, the daughter of former Timberwolves coach and vice-president Kevin McHale, died in Minneapolis on November 24 of lupus-related complications."







Immune Function:

Differentiate
Self
from
Non-Self



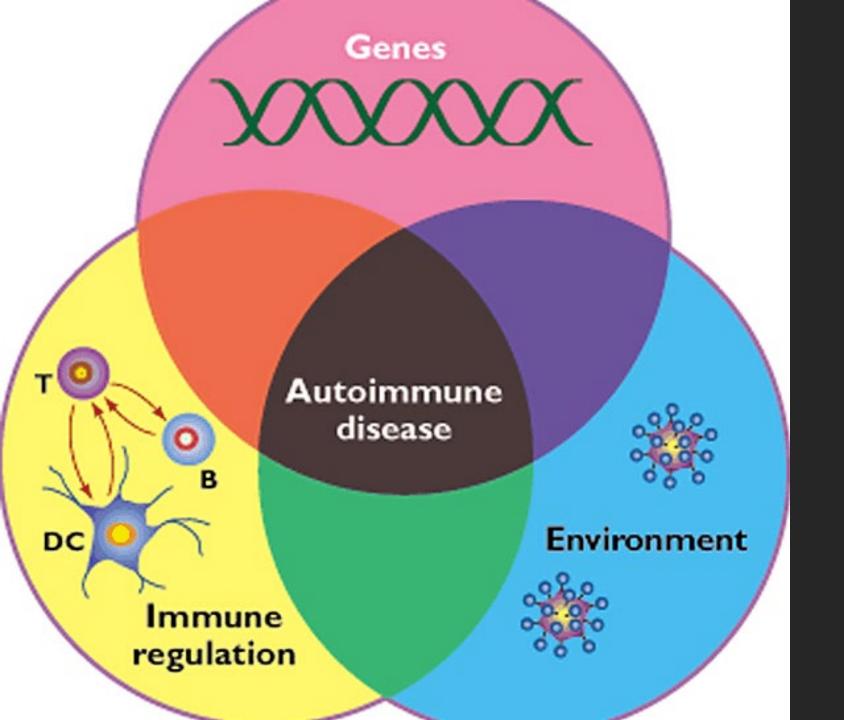
"relationship between cell injury and

autoimmune disease."

PMID: 18194728E



What's causing the problem?



"The development of autoimmune diseases is frequently linked to exposure to environmental factors such as chemicals, drugs, or infections...mercury ... induces an autoimmune syndrome with rapid anti-nucleolar Ab production and immune system activation."

J Immunol. 2008 Nov 15;181(10):6779-88. PMID: 18981095 below













RESULTS:

Overall, 1014 potential new-onset cases were electronically identified; 719 were eligible for case review; 31-40% were confirmed as new onset. Of these, no cluster of disease onset in relation to vaccination timing, dose sequence or age was found for any autoimmune condition.

None of the estimated (Incidence rate ratios) IRR was significantly elevated except Hashimoto's disease [IRR=1.29, 95% confidence interval: 1.08-

1.56]. Further investigation of temporal relationship and biological plausibility revealed no consistent evidence for a safety signal for autoimmune thyroid conditions. The SRC and the investigators identified no autoimmune safety concerns in this study.

CONCLUSIONS:

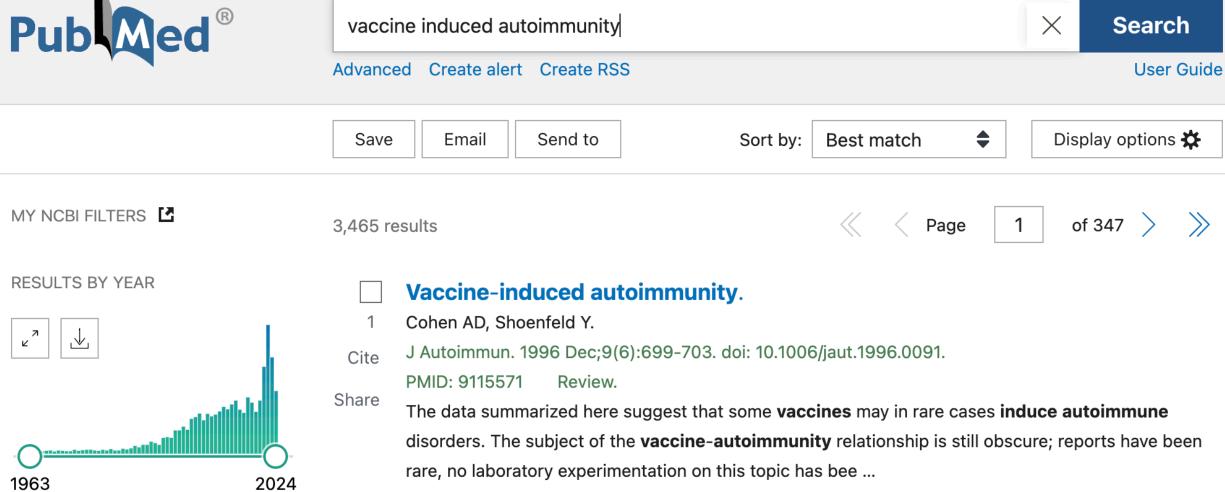
No autoimmune safety signal was found in women vaccinated with HPV4.

J Intern Med. 2012 Feb;271(2):193-203. PMID: 21973261

Three Cases of Subacute **Thyroiditis** Following SARS-CoV-2 **Vaccine**: Postvaccination ASIA Syndrome. İremli BG, Şendur SN, Ünlütürk U. Cite J Clin Endocrinol Metab. 2021 Aug 18;106(9):2600-2605. doi: 10.1210/clinem/dgab373. Share PMID: 34043800 Free PMC article. There are very limited data regarding ASIA syndrome following severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) vaccines. OBJECTIVES: This work aims to report cases of subacute thyroiditis related to the SARS-CoV-2 vaccine. ... Two of them were in t ... Two Cases of Graves' Disease Following SARS-CoV-2 Vaccination: An **Autoimmune**/Inflammatory Syndrome Induced by Adjuvants. Vera-Lastra O, Ordinola Navarro A, Cruz Domiguez MP, Medina G, Sánchez Valadez TI, Jara LJ. Cite Thyroid. 2021 Sep;31(9):1436-1439. doi: 10.1089/thy.2021.0142. Epub 2021 May 3. Share PMID: 33858208 Patient's Findings: Two female health care workers received a SARS-CoV-2 vaccine, and three days later developed clinical manifestations of thyroid hyperactivity, with increased thyroid hormone levels on **thyroid** function tests, suppressed **thy** ... **Autoimmune** hepatitis triggered by SARS-CoV-2 vaccination. Vuille-Lessard É, Montani M, Bosch J, Semmo N. J Autoimmun. 2021 Sep;123:102710. doi: 10.1016/j.jaut.2021.102710. Epub 2021 Jul 28. Cite PMID: 34332438 Free PMC article. Share The development of **autoimmune** diseases has been reported after SARS-CoV-2 infection. Vaccination against SARS-CoV-2 could also trigger auto-immunity, as it has been described with

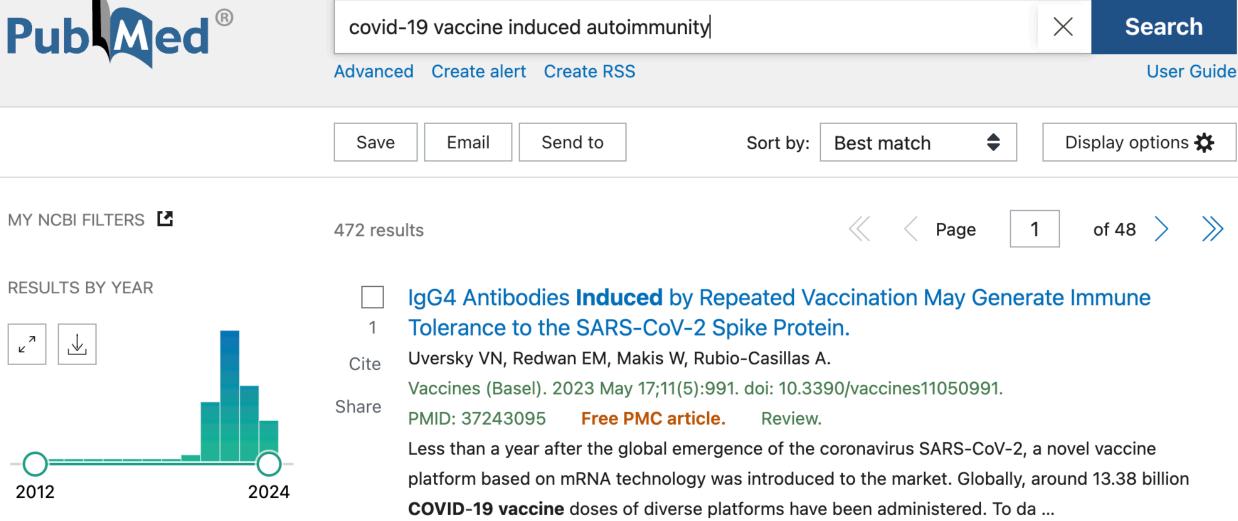
Vaccine induced autoimmunity is a published medical fact.

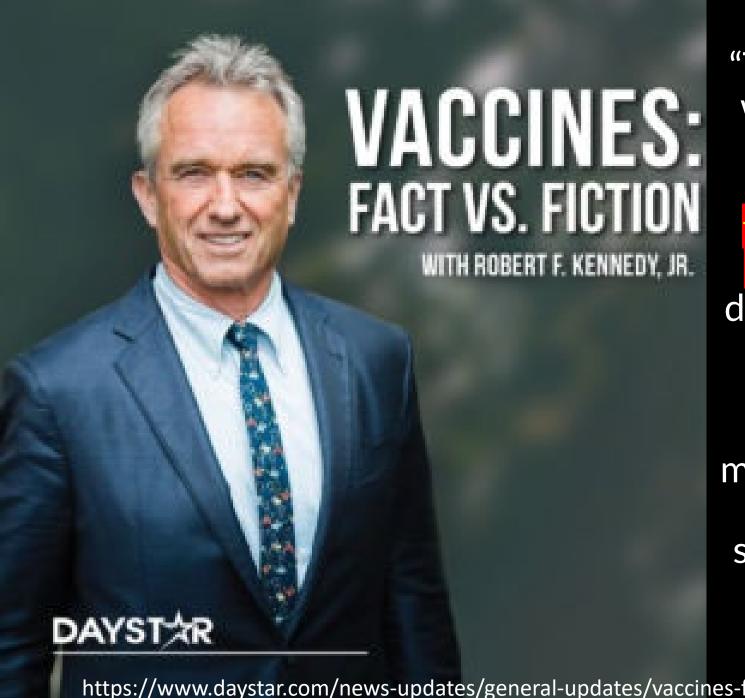




National Library of Medicine National Center for Biotechnology Information







"There are about 61 studies that we've uncovered that compare vaccinated populations and unvaccinated populations, and the vaccinated populations are always sicker. They have more diabetes, they have more autism, they have more special education, they have more hospital visits, more earaches, more auto immune diseases, they have more allergies, there's no study that we've ever been able to find that shows vaccinated populations are healthier."

SAGE Open Medicine

Analysis of health outcomes in vaccinated and unvaccinated children: Developmental delays, asthma, ear infections and gastrointestinal disorders

SAGE Open Medicine Volume 8: I-II © The Author(s) 2020 Article reuse guidelines: sagepub.com/journals-permissions DOI: 10.1177/2050312120925344 journals.sagepub.com/home/smo

\$SAGE

Brian S Hooker on And Neil Z Miller

Abstract

Objective: The aim of this study was to compare the health of vaccinated versus unvaccinated pediatric populations.

Methods: Using data from three medical practices in the United States with children born between November 2005 and June 2015, vaccinated children were compared to unvaccinated children during the first year of life for later incidence of developmental delays, asthma, ear infections and gastrointestinal disorders. All diagnoses utilized International Classification of Diseases–9 and International Classification of Diseases–10 codes through medical chart review. Subjects were a minimum of 3 years of age, stratified based on medical practice, year of birth and gender and compared using a logistic regression model. Results: Vaccination before I year of age was associated with increased odds of developmental delays (OR = 2.18, 95% CI 1.47–3.24), asthma (OR = 4.49, 95% CI 2.04–9.88) and ear infections (OR = 2.13, 95% CI 1.63–2.78). In a quartile analysis, subjects were grouped by number of vaccine doses received in the first year of life. Higher odds ratios were observed in Quartiles 3 and 4 (where more vaccine doses were received) for all four health conditions considered, as compared to Quartile I. In a temporal analysis, developmental delays showed a linear increase as the age cut-offs increased from 6 to 12 to 18 to 24 months of age (ORs = 1.95, 2.18, 2.92 and 3.51, respectively). Slightly higher ORs were also observed for all four health conditions when time permitted for a diagnosis was extended from ≥ 3 years of age to ≥ 5 years of age.

Conclusion: In this study, which only allowed for the calculation of unadjusted observational associations, higher ORs were observed within the vaccinated versus unvaccinated group for developmental delays, asthma and ear infections. Further study is necessary to understand the full spectrum of health effects associated with childhood vaccination.

Development Delays + 218%

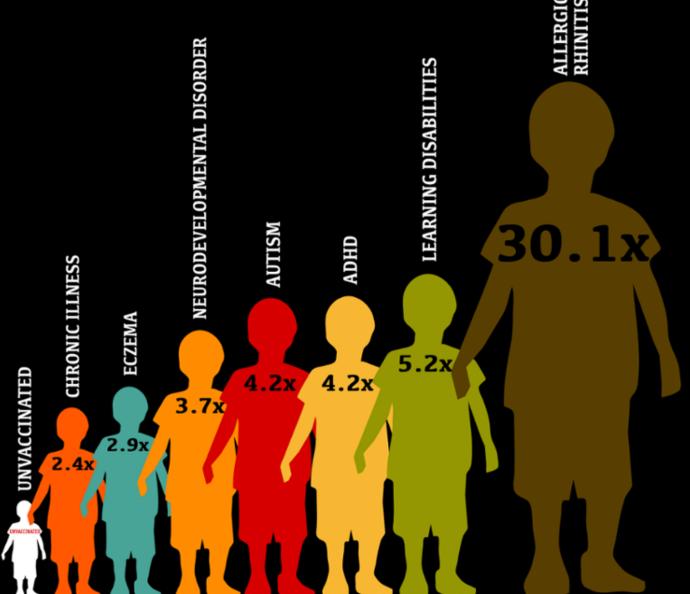
Asthma + 449%

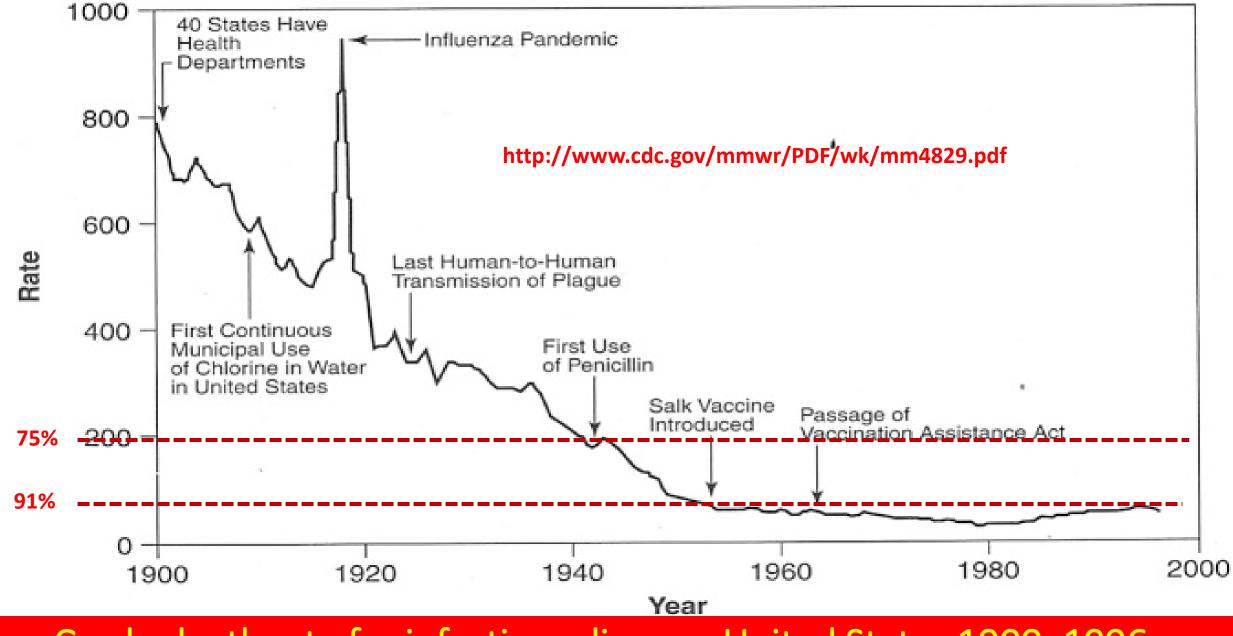
Ear Infections + 213%

GI disorders + 147%



http://info.cmsri.org /the-drivenresearcherblog/vaccinated-vs.unvaccinated-guesswho-is-sicker A new groundbreaking survey of hundreds of homeschooled American children found that, compared to the UNVACCINATED children, the VACCINATED children had higher odds of developing the following conditions.





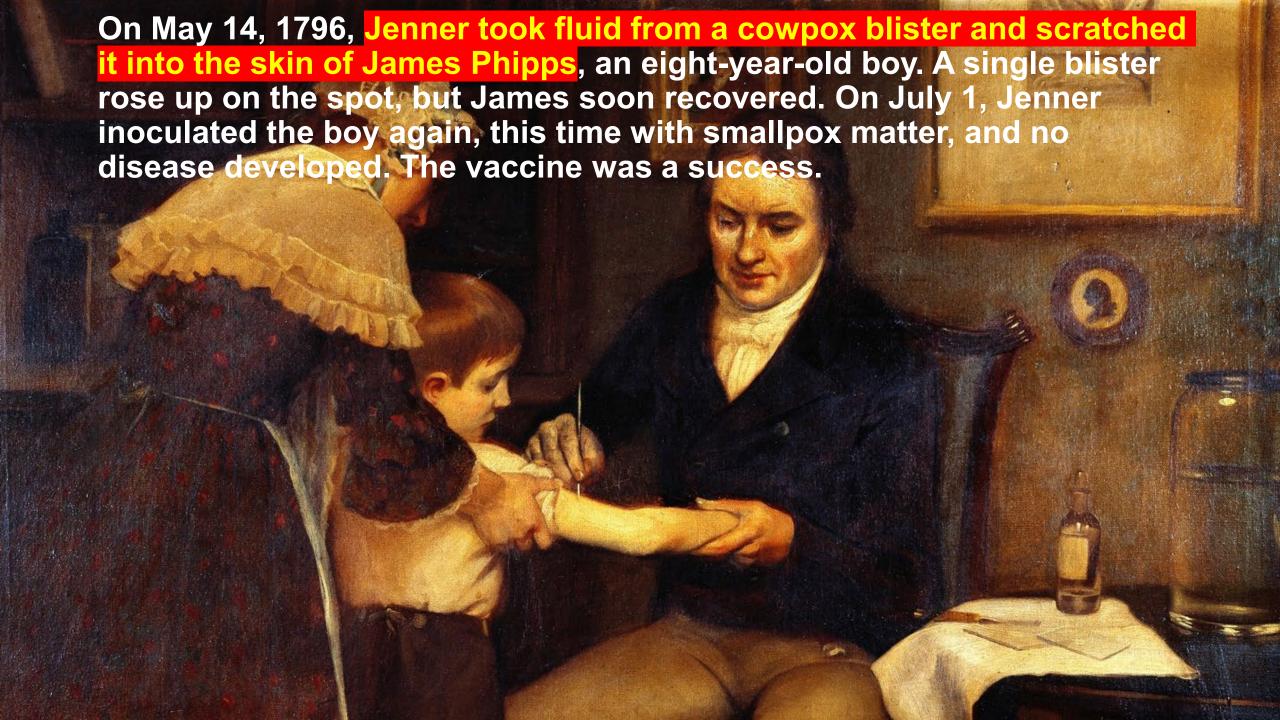
Crude death rate for infectious disease, United States 1900–1996. (Adapted from Armstrong, GL, et al. JAMA 1999:281:61–6)

Jenner - Smallpox vaccine

- Noticed that milkmades that had contracted cowpox did NOT get smallpox
- Test on an 8 year old boy, injected cowpox into him (NOT very nice.....)
- Follwed by exposure to smallpox
- Vaccine was invented (latin vacca means "cow")





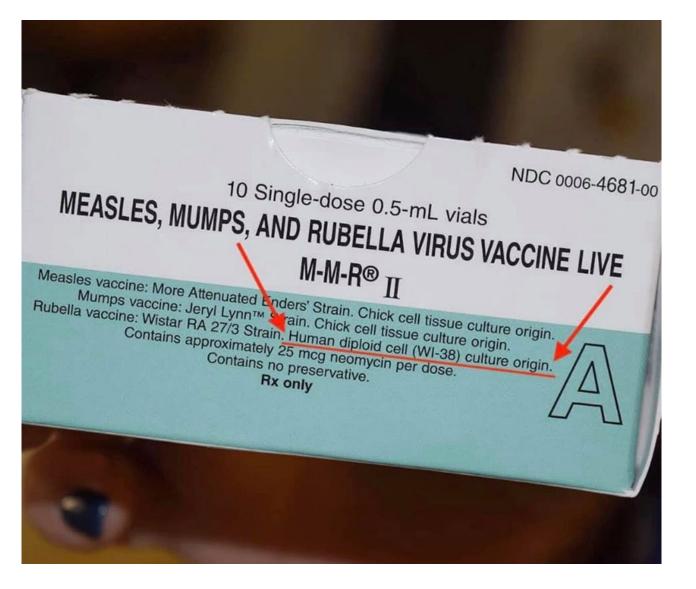


Vaccine ingredients

Mercury Aluminum Formaldehyde

https://www.cdc.gov/vaccines/vacgen/additives.htm

Type of Ingredient	Example(s)
Preservatives	Thimerosal (only in multi-dose vials of flu vaccine)*
Adjuvants	Aluminum salts
Stabilizers	Sugars, gelatin
Residual cell culture materials	Egg protein^
Residual inactivating ingredients	Formaldehyde†
Residual antibiotics	Neomycin



WI-38 is a diploid **human cell** line composed of fibroblasts derived from lung tissue of a 3-monthgestation aborted female fetus. https://en.wikipedia.org /wiki/WI-38



Smallpox Defense May Be Found in Mushrooms

August 3, 2006 · 12:00 AM ET Heard on Morning Edition

TOM BANSE











A rare mushroom that grows in the old-growth forests of the Pacific Northwest may offer protection from smallpox — an infectious disease that security experts feel may be a biological weapon of choice for terrorists who wish to attack America.

Paul Stamets Mushrooms for BioTerrorism...

https://www.npr.org/templates/story/story.php?storyId=4783951



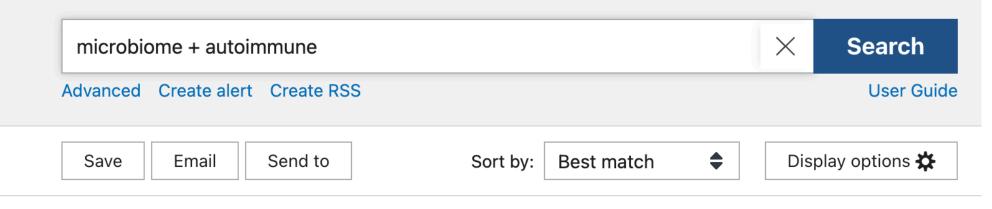
Paul Stamets with mushrooms he's growing at his Mason County, Wash., compound.

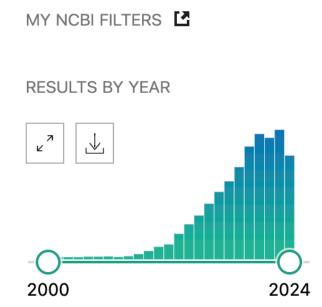
Tom Banse

of 386

Page







1 De Luca F, Shoenfeld Y.

3,854 results

Share

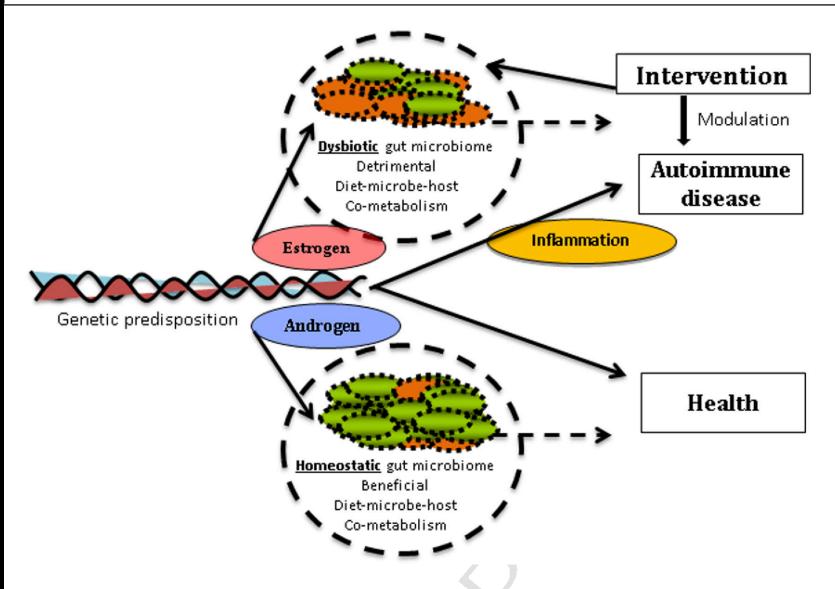
Cite Clin Exp Immunol. 2019 Jan;195(1):74-85. doi: 10.1111/cei.13158.

PMID: 29920643 Free PMC article. Review.

The **microbiome** in **autoimmune** diseases.

In recent years, several studies have highlighted the role of the **microbiome** in the pathogenesis of **autoimmune** diseases. Notably, in systemic lupus erythematosus an alteration of the intestinal flora (lower Firmicutes/Bacteroidetes ratio) has been described. ...Here ...

"Interactions of microbiota and the immune system have been shown to promote and sustain chronic inflammation and PMID: 32044247







Carnivore or Herbivore: How Your Diet Alters Your Gut Bugs



Published: 11 December 2013

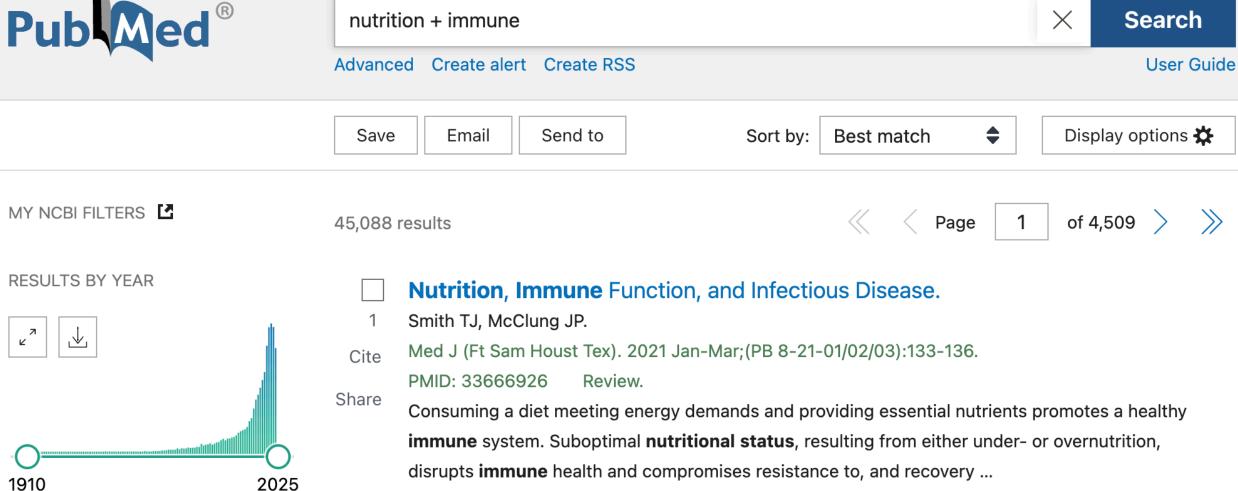
Diet rapidly and reproducibly alters the human gut microbiome https://www.nature.com/articles/nature12820

Abstract

Long-term dietary intake influences the structure and activity of the trillions of microorganisms residing in the human gut^{1,2,3,4,5}, but it remains unclear how rapidly and reproducibly the human gut microbiome responds to short-term macronutrient change. Here we show that the short-term consumption of diets composed entirely of animal or plant products alters microbial community structure and overwhelms inter-individual differences in microbial gene expression. The animal-based diet increased the abundance of bile-tolerant microorganisms (Alistipes, Bilophila and Bacteroides) and decreased the levels of Firmicutes that metabolize dietary plant polysaccharides (Roseburia, Eubacterium rectale and Ruminococcus bromii). Microbial activity mirrored differences between herbivorous and carnivorous mammals², reflecting trade-offs between carbohydrate and protein

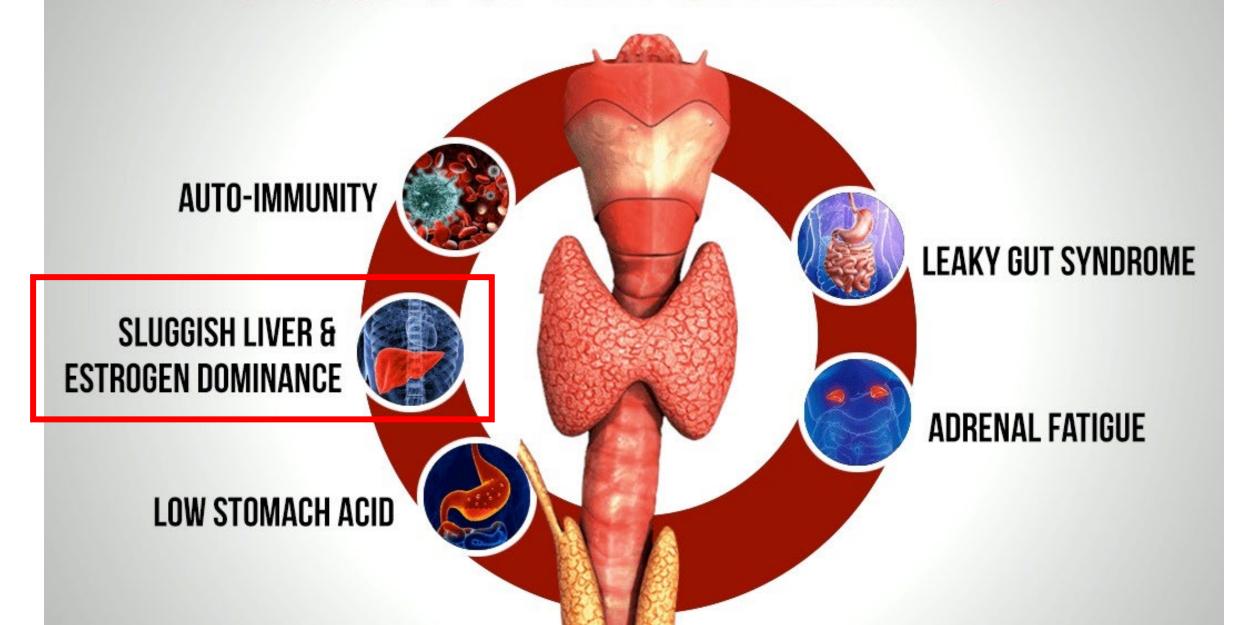
fermentation. Foodborne microbes from both diets transiently colonized the gut, including bacteria, fungi and even viruses. Finally, increases in the abundance and activity of *Bilophila wadsworthia* on the animal-based diet support a link between dietary fat, bile acids and the outgrowth of microorganisms capable of triggering inflammatory bowel disease⁶. In concert, these results demonstrate that the gut microbiome can rapidly respond to altered diet, potentially facilitating the diversity of human dietary lifestyles.







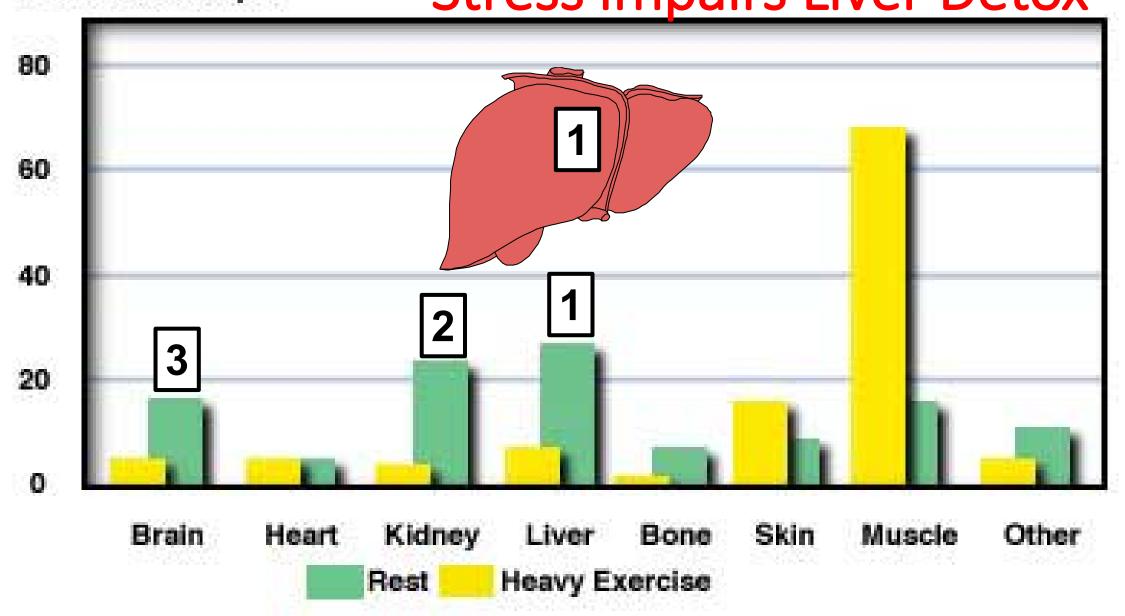
CAUSES OF HYPOTHYROIDISM

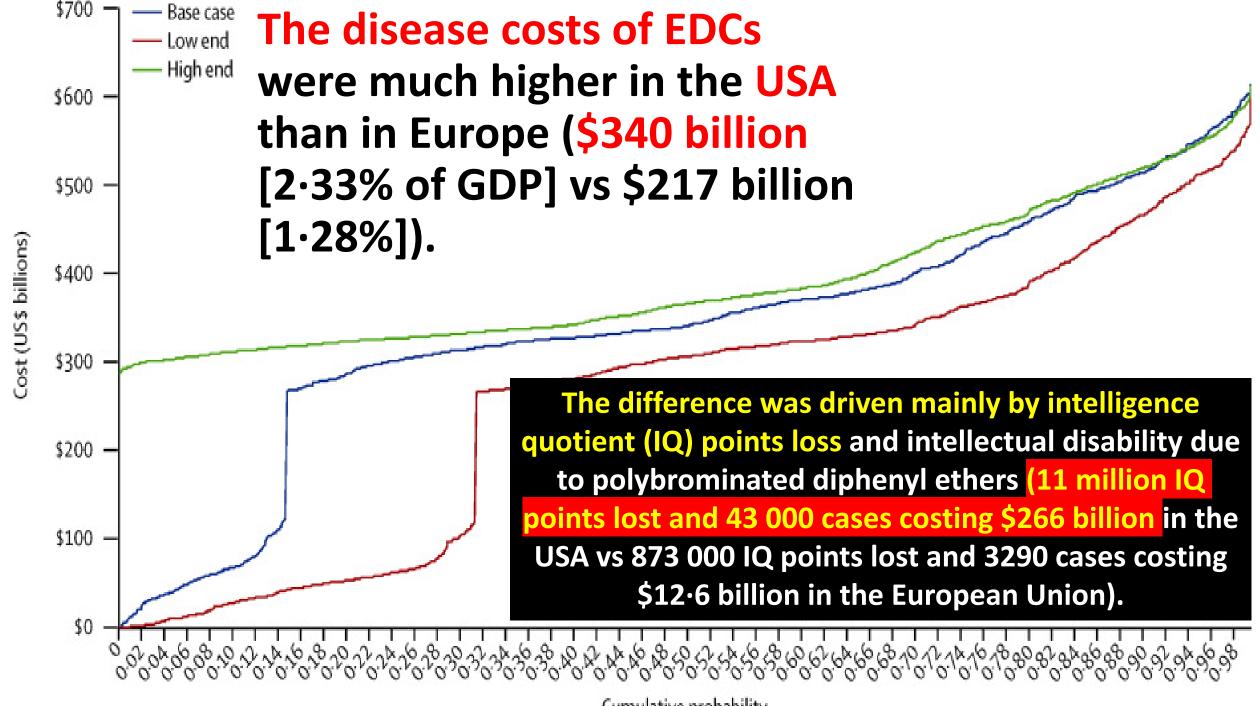


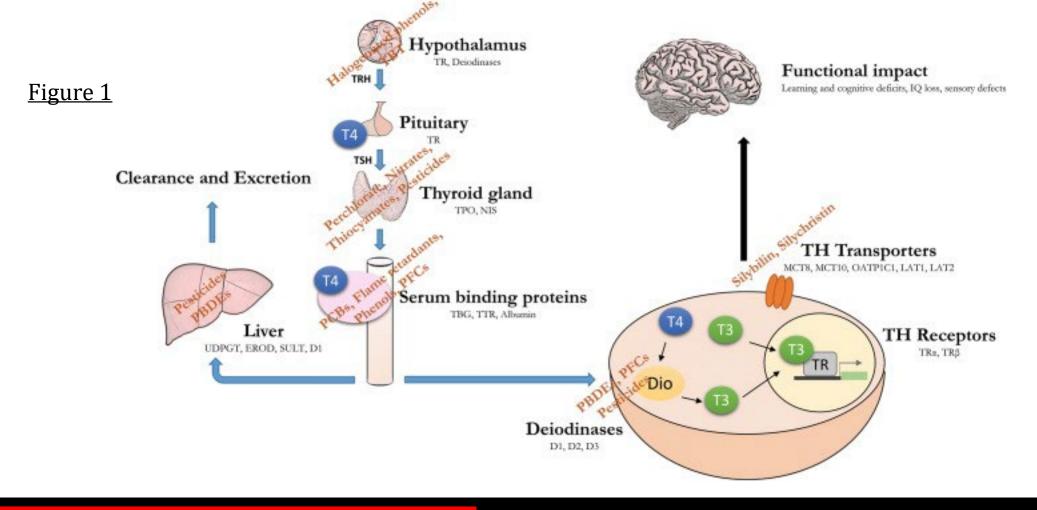
Distribution of Cardiac Output at Rest and Exercise

% of cardiac output

Stress impairs Liver Detox



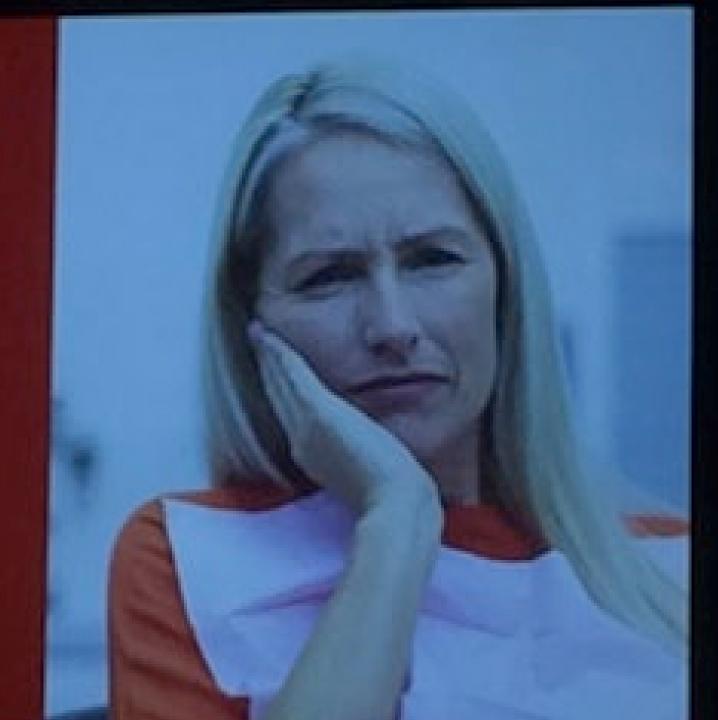




Endocrine-disrupting chemicals (EDCs) act at multiple levels of the hypothalamus—pituitary—thyroid (HPT) axis. Environmental chemicals have the potential to disrupt the HPT axis, alone or in combination. Given the crucial role for thyroid hormone in brain development, such disruption can have a long-lasting functional impact, such as IQ loss and increased risk of neurodevelopmental disease (note: targets not drawn to scale). PMID: 29572405 2018

TOP THYROID TOXINS

- Mercury
- 2. Perchlorate
- 3. Halides or halogens
- 4. Nitrates
- 5. Plastics
- Parabens and Phthalates



1

"Conclusions: This meta-analysis indicates that exposure to Hg in blood could significantly corrrelate with the levels of TSH, T4, and FT4 in the general population." PMID: 33640496 2021

6 SOURCES OF MERCURY EXPOSURE













AmyMyersMD.com



Mercury increases Thyroid Autoimmunity 2.24x

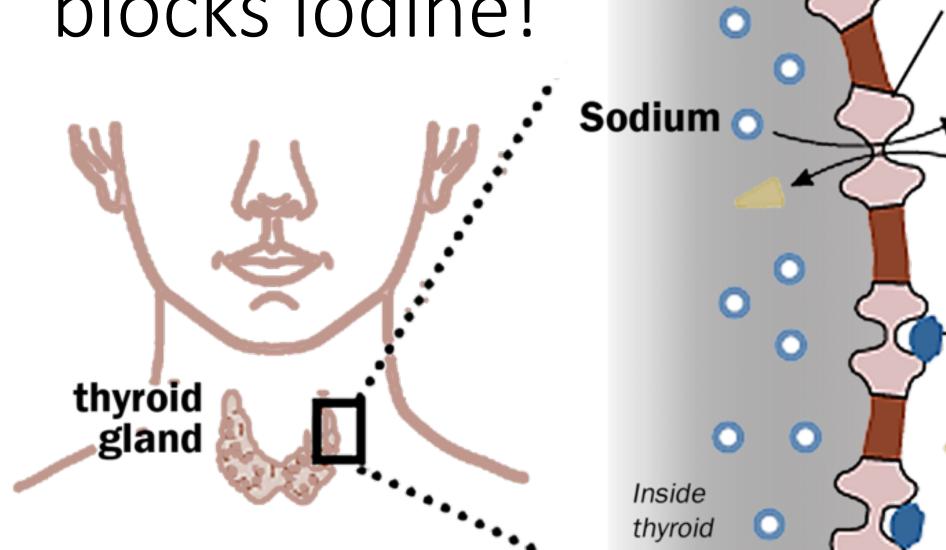
PMID: 22280926

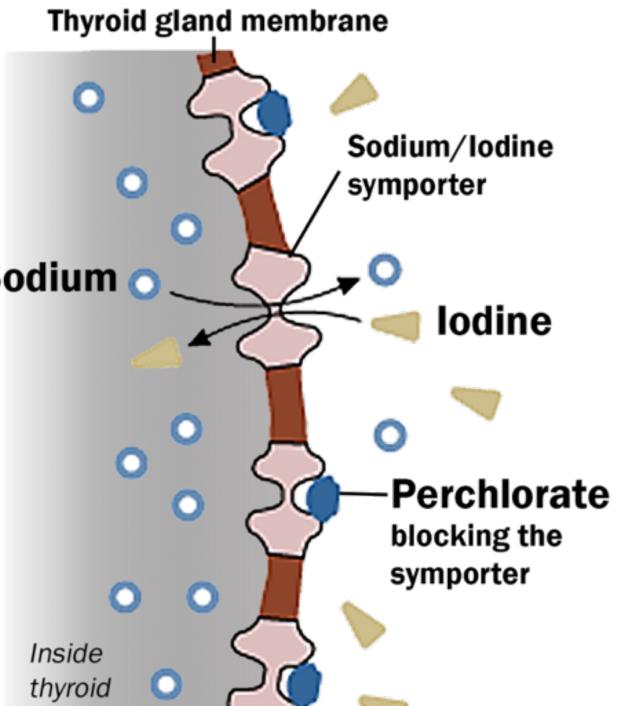


"The main source of perchlorate found in drinking water is primarily associated with releases of ammonium perchlorate by military operations and aerospace programs."

http://2016.igem.org/Team:Leiden/TheProblem

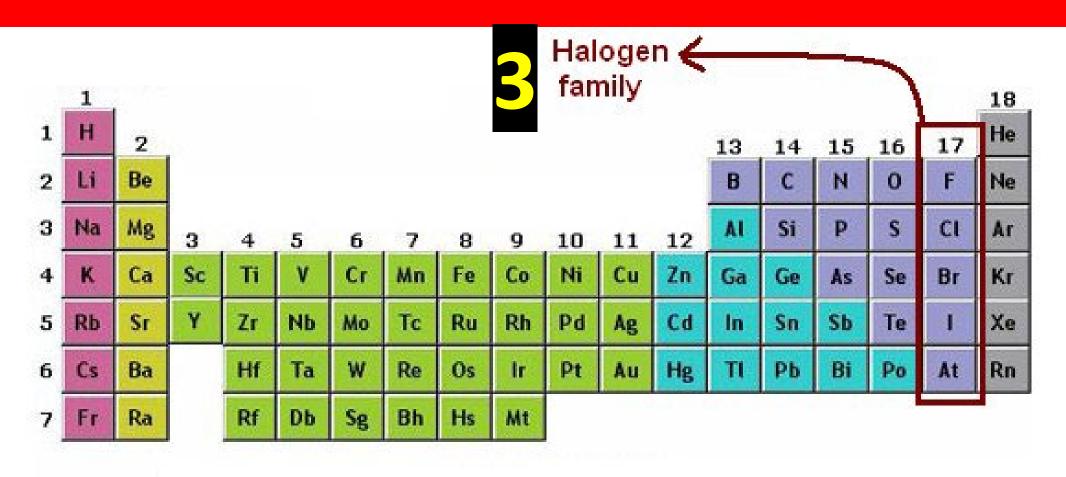
Perchlorate blocks iodine!





Fluoride, Chloride and Bromide inhibit thyroid function.

PMID: 22186223, PMID: 22800594, http://www.ewg.org/node/8609 below

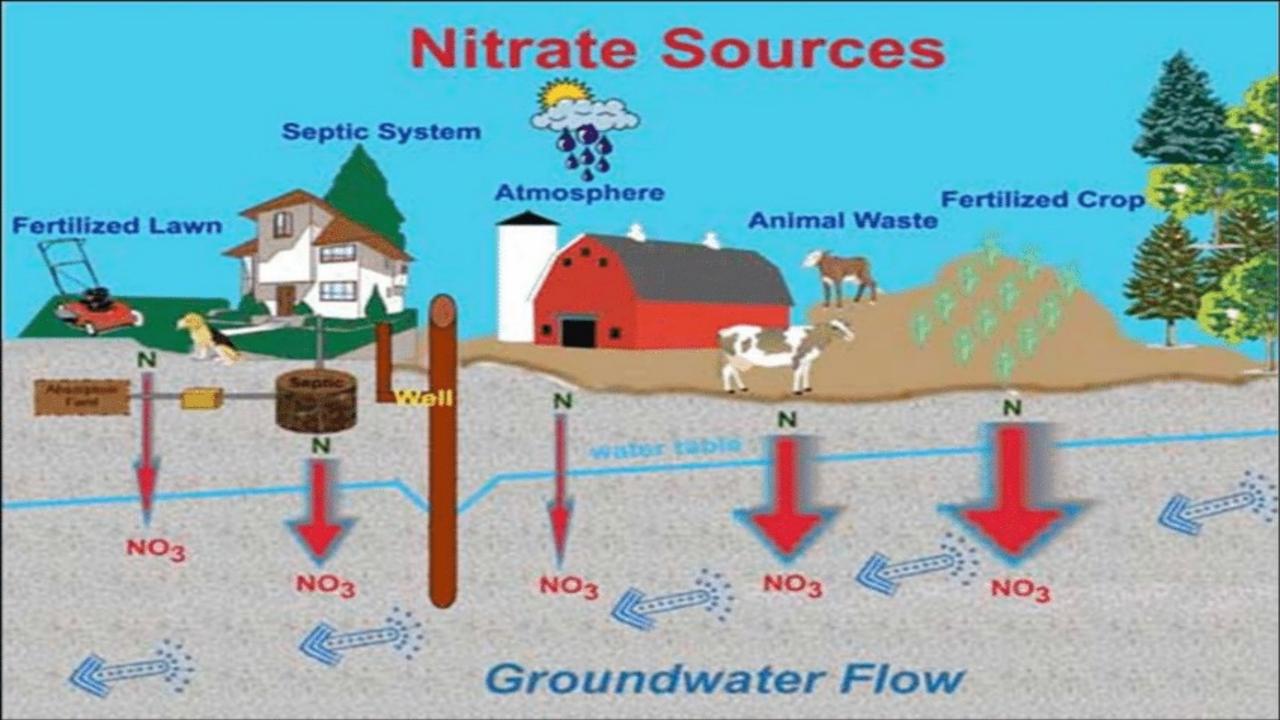


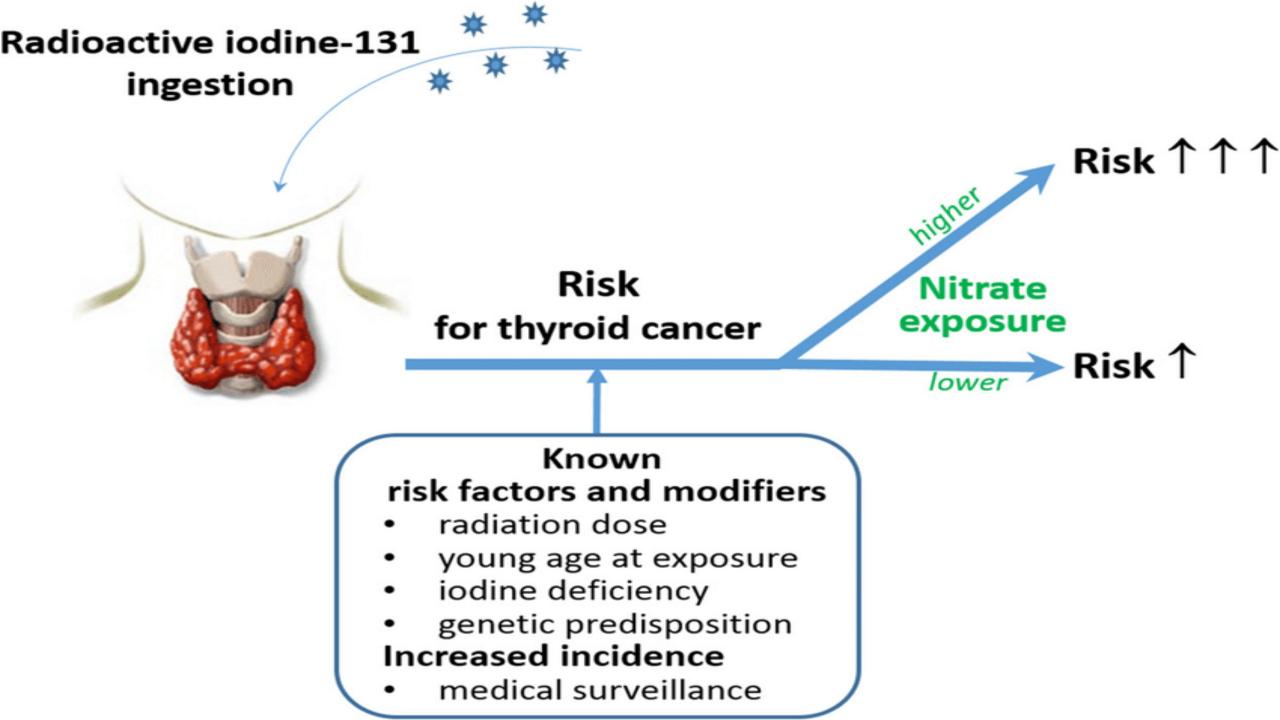
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

4 NITRATES

- Found in fertilizer and foods
- Resemble iodine enough to block thyroid hormone absorption
- Women more likely to develop thyroid cancer if higher nitrate levels in water

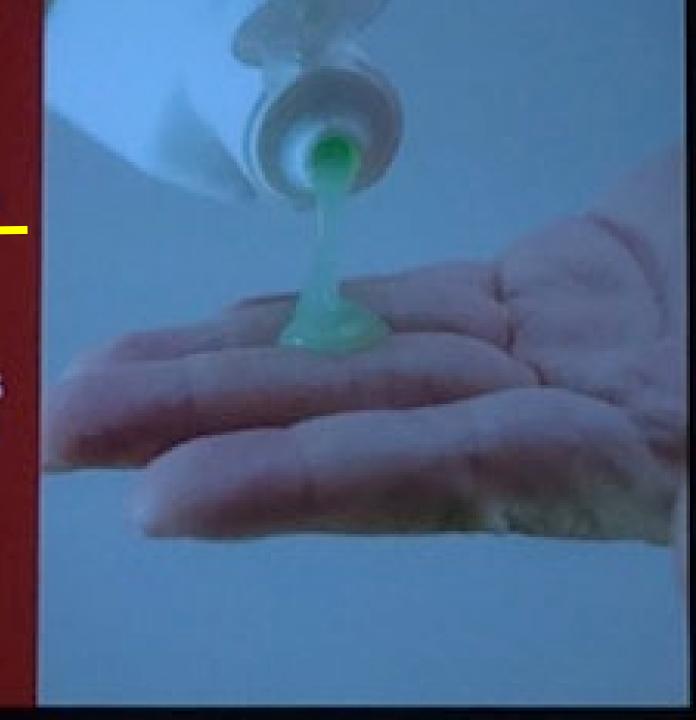






PARABENS & PHTHALATES

- Mimic estrogen and disrupt the hormonal cascade
- Higher estrogens = TBG
- CDC study found phthalates were 39% higher in urine of people who ate 35% of calories from fast food

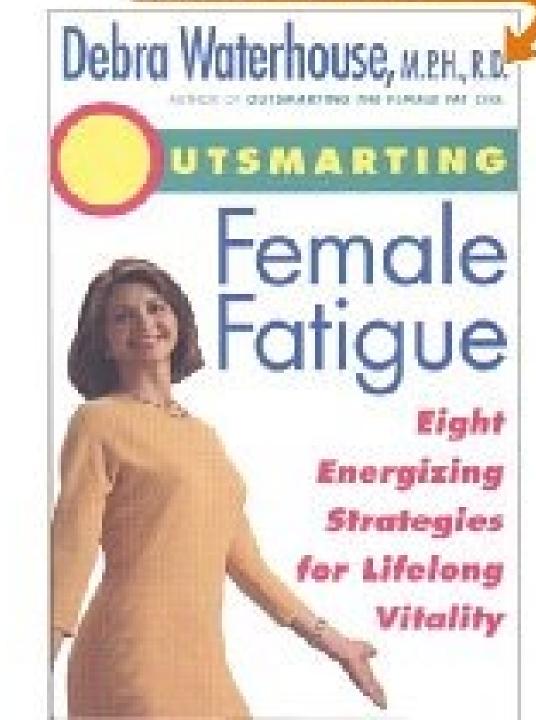


"estrogen-induced increase in serum thyroxine-binding globulin" "dose-dependent" PMID: 11396448



"Hypothyroidism is a relatively common condition... Statistics suggest that it is six times more common in women"

Practice Nursing 14(7): 316 - 319 (Jul 2003) abstract below



"The striking preponderance of autoimmune diseases has also been shown in several animal models, in which estrogens promote, whereas androgens abrogate, B-cell-mediated autoimmune diseases"

PMID: 15012623



surprising sources of PHTHALATES **PRONOUNCED** "THAH-LATES"

food & beverages

1 food & liquid containers

baby formula & baby food

3 pesticides

eat organic foods from glass or other safe containers to avoid phthalates in your diet

phthalates & other toxins are easily absorbed through your skin into your bloodstream personal care products

4 cosmetics, personal care, perfumes

5 infant care products

medication & medical devices -

Food (fast food)

Pesticides

Cosmetics

Infant Care products

Medications



Vingl

7 shower curtains

8 flooring

9 wallpaper

10 mini-blinds

11 diaper mats

12 rain gear

inflatable mattresses

14 school supplies

15 car interiors

vinyl products are
loaded with
phthalates, which
make for soft, strong
plastics - avoid vinyl
whereever you can
and look for products
that use natural
materials & fibers
instead

watch out for phthalates used in aces you might not expect: toys, room ays, & electronics

miscellaneous

16 air fresheners & plug-ins

17 electronics

18 plastic jewelry & party favors

19 toys & crafts

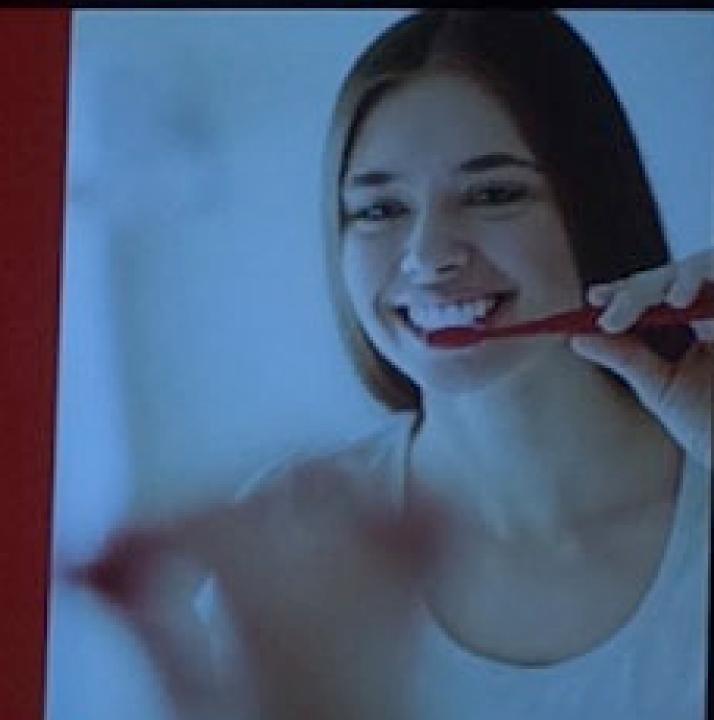


BRANCH BASICS

Common Home Items

6 OTHER TOXINS

- Mycotoxins
- Your Mouth
- EMF





Ganodermin, an antifunga/ protein from fruiting bodies of the medicinal mushroom Ganoderma lucidum

PMID: 16039755

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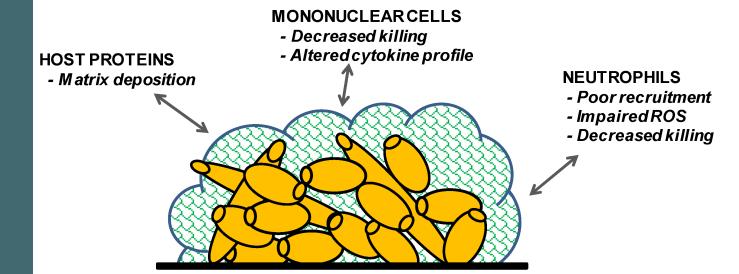


Antifungaldemelanizing properties and RAW264.7 macrophages stimulation of glucan sulfate from the mycelium of the mushroom Ganoderma lucidum

PMID: 30263523

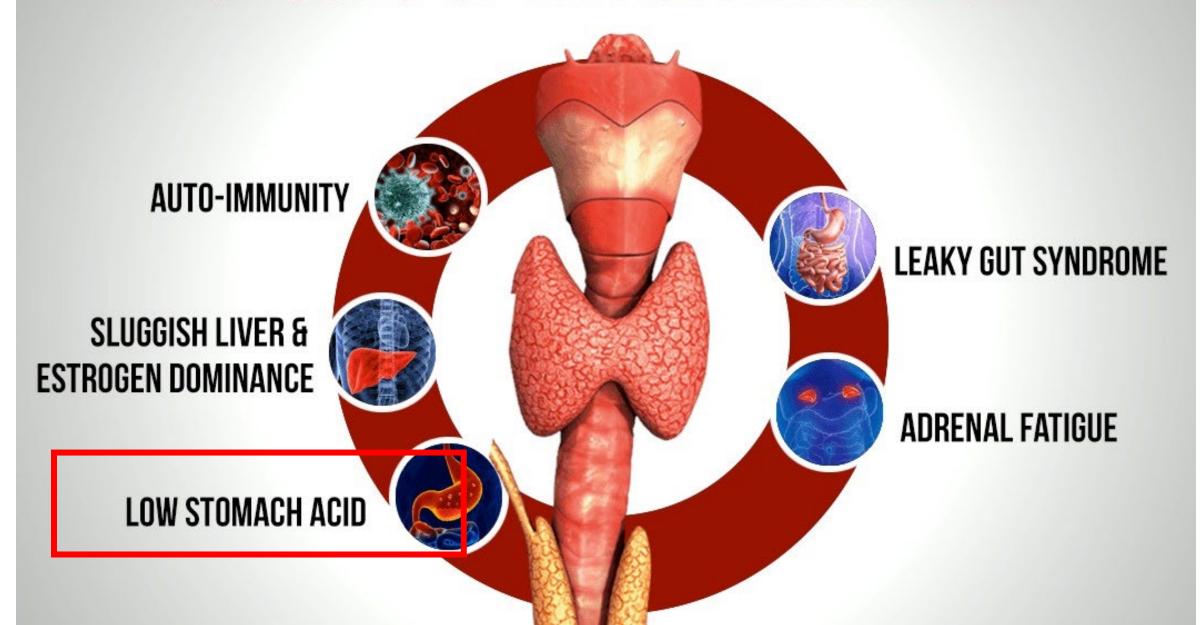
"yeast biofilms are tenacious structures difficult to eradicate or treat with the current arsenal of antifungal agents." PMID: 32776210

HOST RESPONSE TO CANDIDA BIOFILM

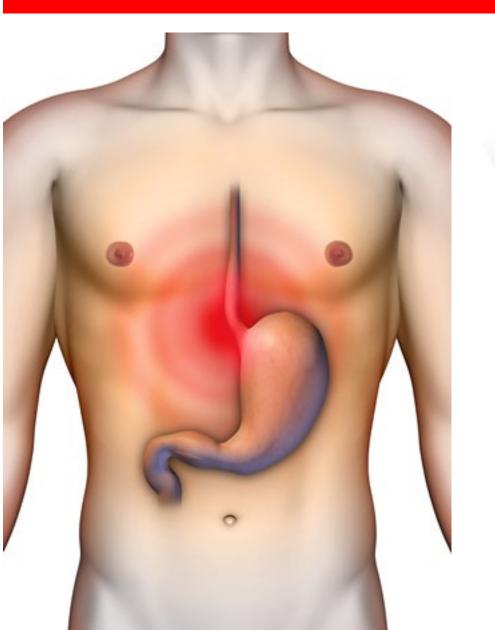


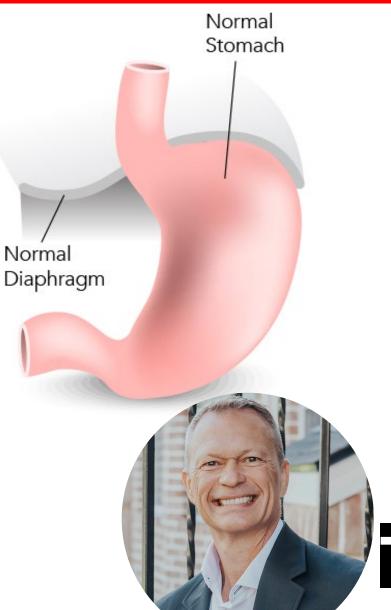


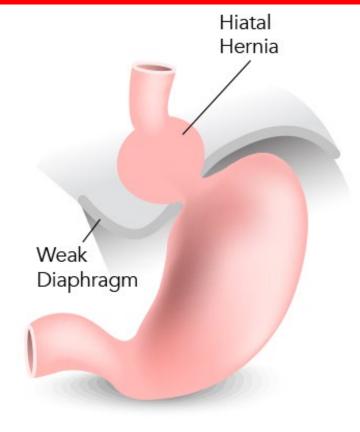
CAUSES OF HYPOTHYROIDISM



Stomach Acid / Acid Reflux mini course

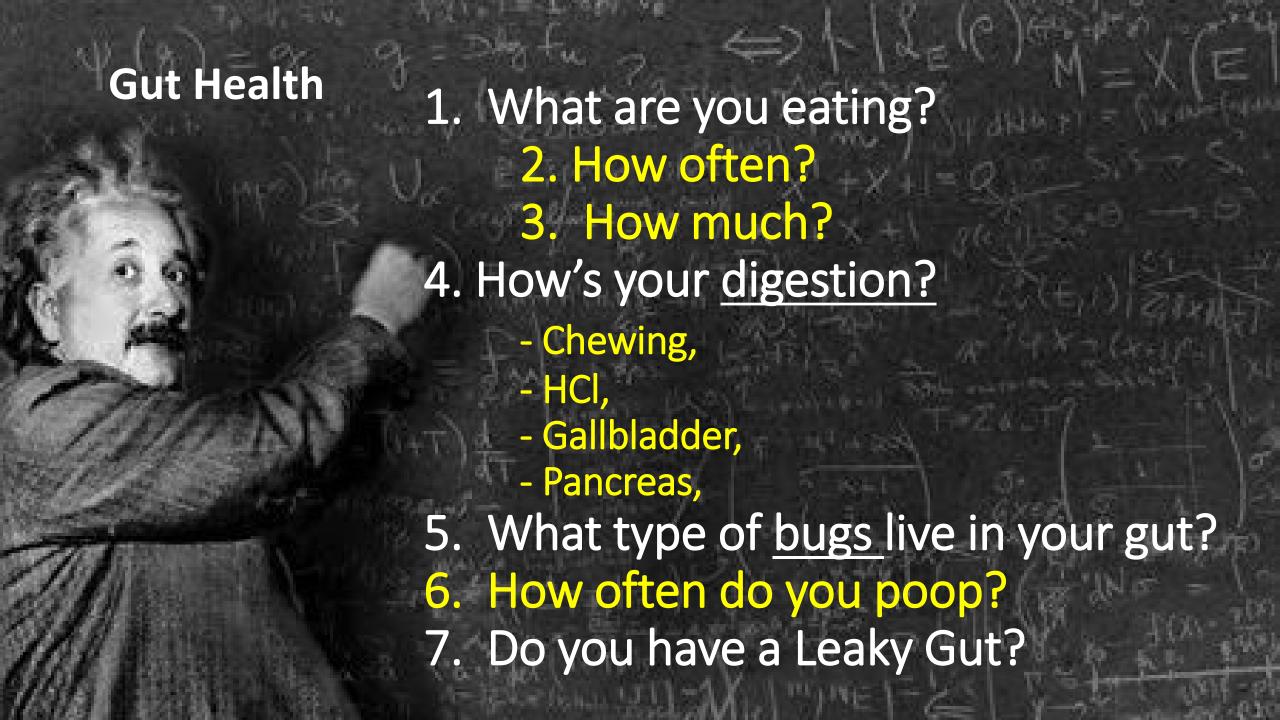


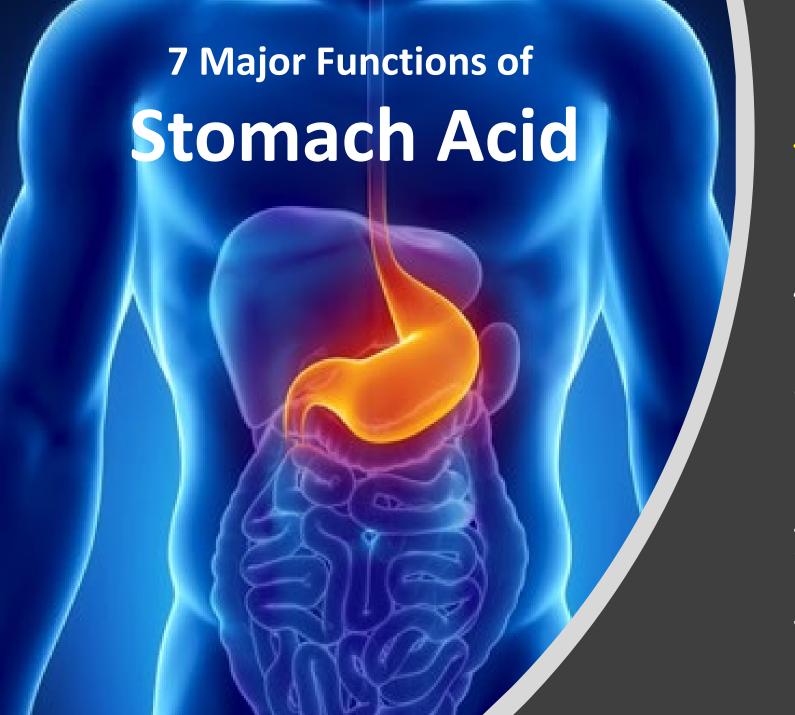




Robert A. Rakowski DC, CCN, DACBN, DIBAK

The Dr Bob. com





- 1. Sterilizes Food (prevents food poisoning)
- 2. Protein Digestion
- 3. Activates Pepsin
- 4. Activates Intrinsic Factor (B12)
- 5. Stimulates Bile and Enzymes
- 6. Closes the Esophageal Sphincter (prevents reflux)
- 7. Opens the Pyloric Sphincter



Results: Among 71,812 participants, 32,878 (44.1%) reported having had GERD symptoms in the past and 23,039 (30.9%) reported having GERD symptoms in the past week

PMID: 31866243 2020



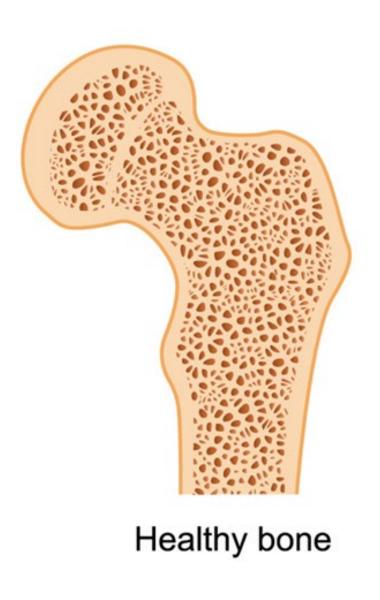
Popular acid blocking drugs

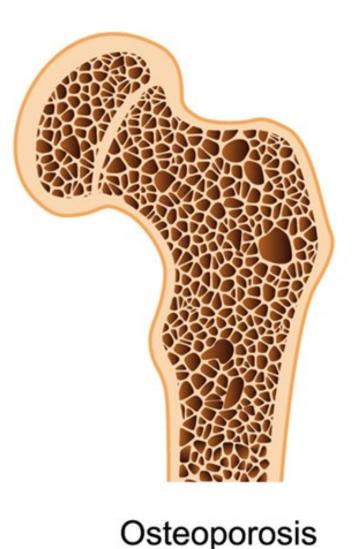


ACID BLOCKING DRUGS MAY THREATEN HEALTH

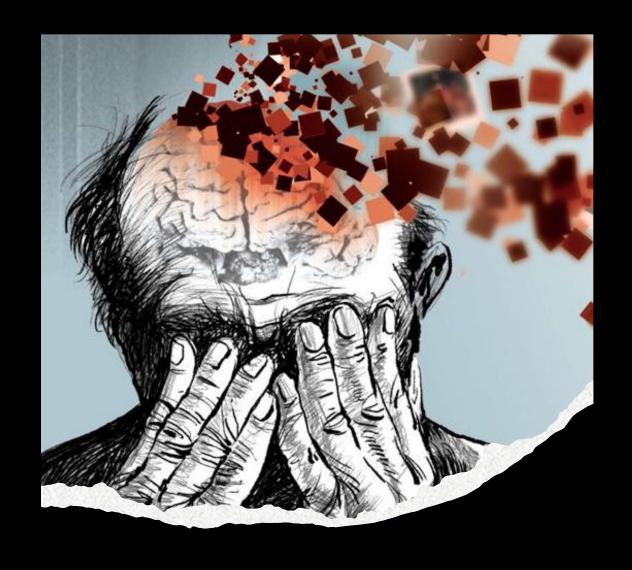
Overall, PPIs were positively associated with elevated fracture risk

PMID: 31060319 2019





"Recent clinical studies have shown that proton pump inhibitors (PPIs) are associated with risk of dementia, including AD (Alzheimer's Dementia)"

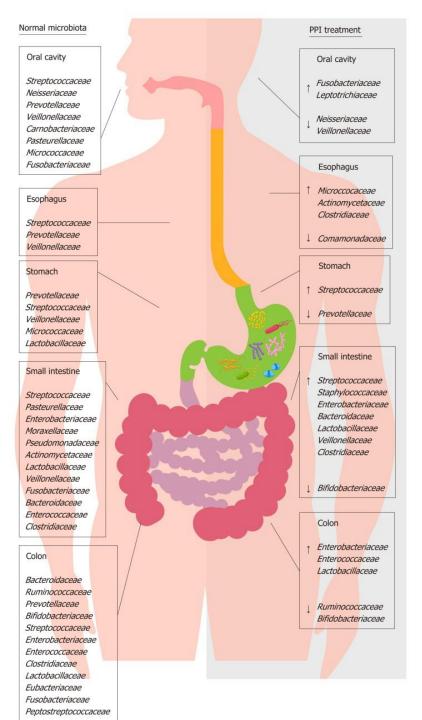


PMID: 29755512 2019



429% increase risk of Gastric Cancer for patients using proton pump inhibitors for more than 1 year

Gut 2018 PMID: 29089382



"The evidence indicates that PPIs which are widely used in gastroenterology clinical practice likely through their acidantisecretory effects, are able to modify the host microbiota in each segment of the GI tract and

can contribute to dysbiosis

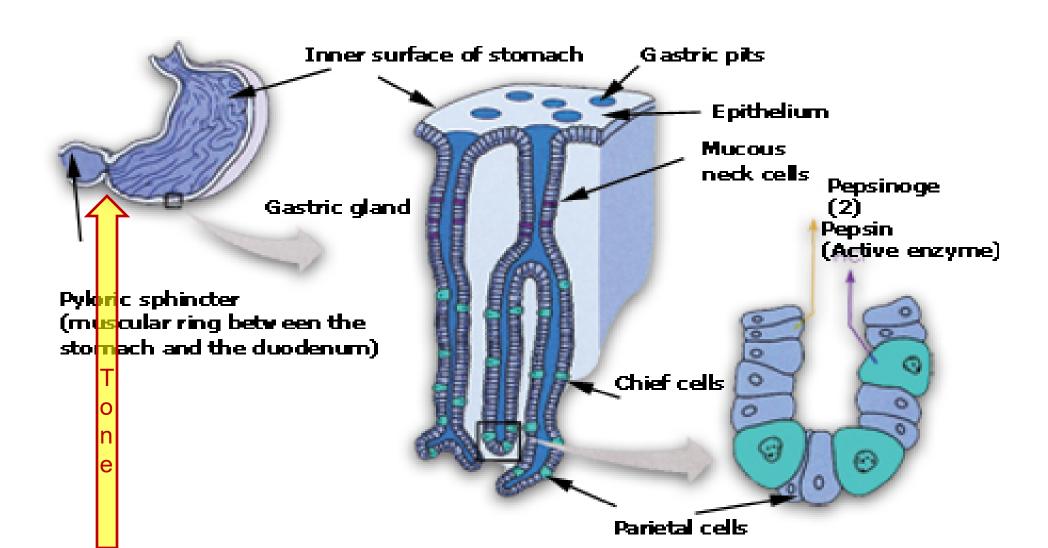
development"

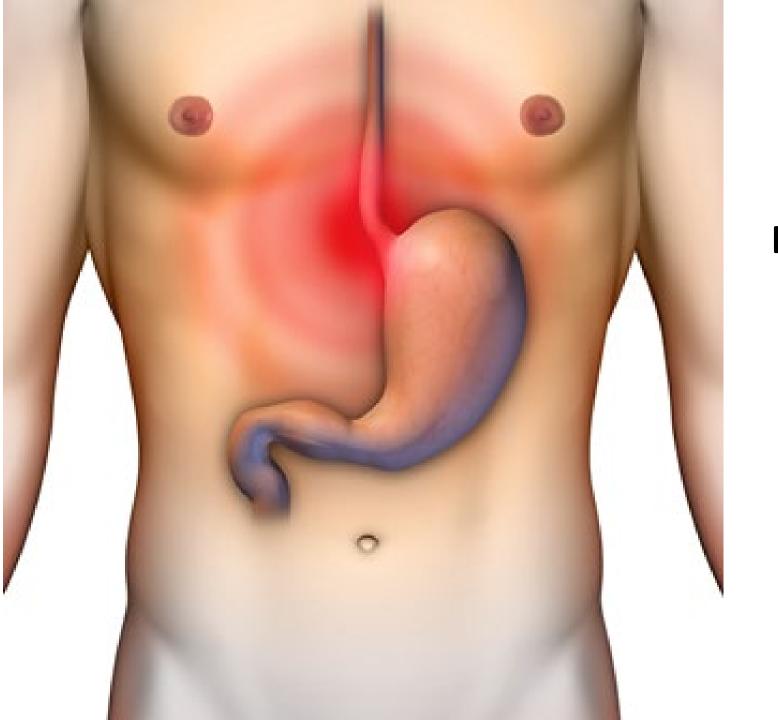
PMID: 31235994

'The pH of stomach HCI is approximately 0.8, which is

3 million times more concentrated that of arterial blood.'

Textbook of Medical Physiology 7th Edition; Guyton; © 1986 W.B. Saunders Co., ISBN: 0-7216-1260-1, page 774





Blood

	Logarithmic
рН	Multiplier
7.35	
6.35	10
5.35	100
4.35	1000
3.35	10,000
2.35	100,000
1.35	1,000,000
0.8	3,000,000



And to concentrate the hydrogen ions this tremendous amount requires over 1500 calories of energy per liter of gastric juice"

Textbook of Medical Physiology 7th Edition; Guyton; © 1986 W.B. Saunders Co., ISBN: 0-7216-1260-1, page 774

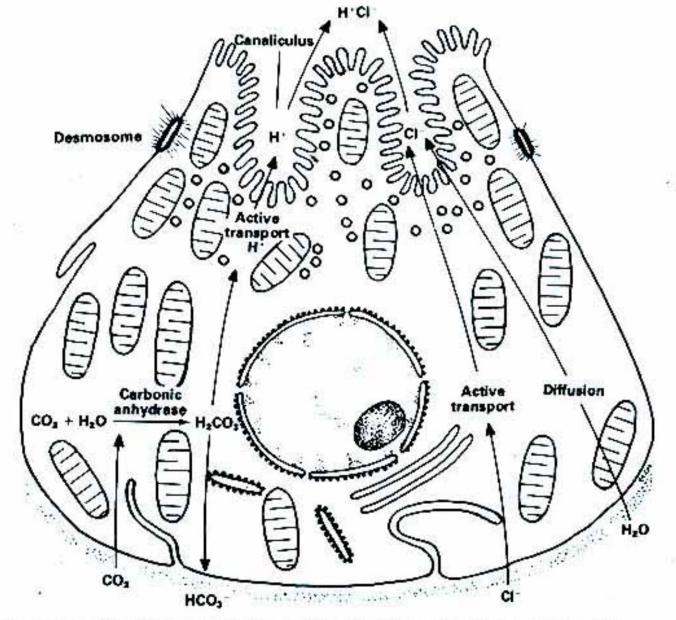


Figure 11. Structure of a parietal cell and the mechanisms involved in hydrochloric acid formation.

All toxins reduce human energy (mitochondria) efficiency



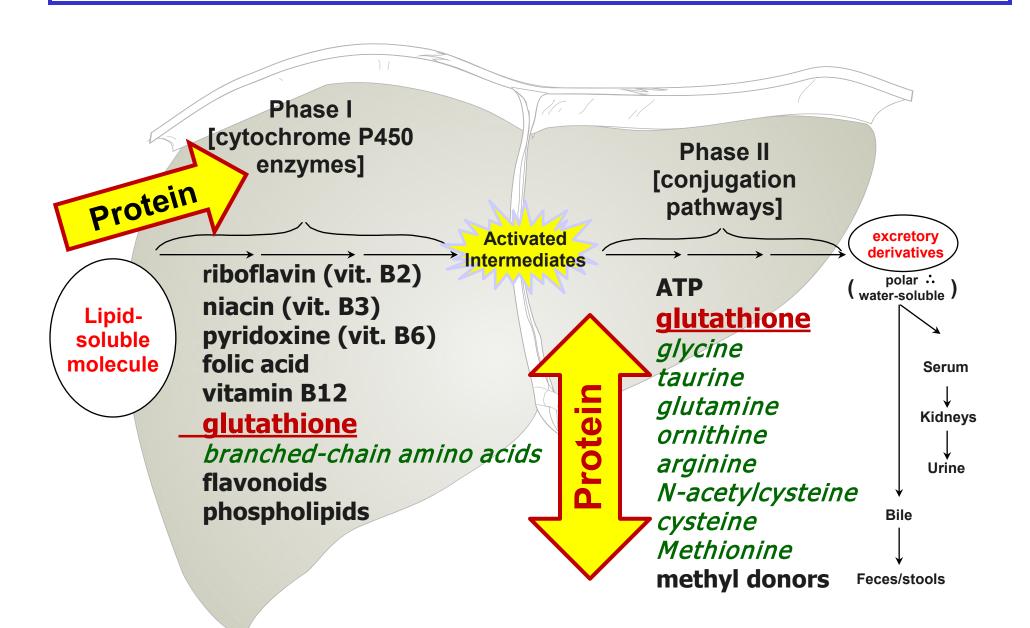
toxins, both natural and synthetic, that disrupt mitochondrial function

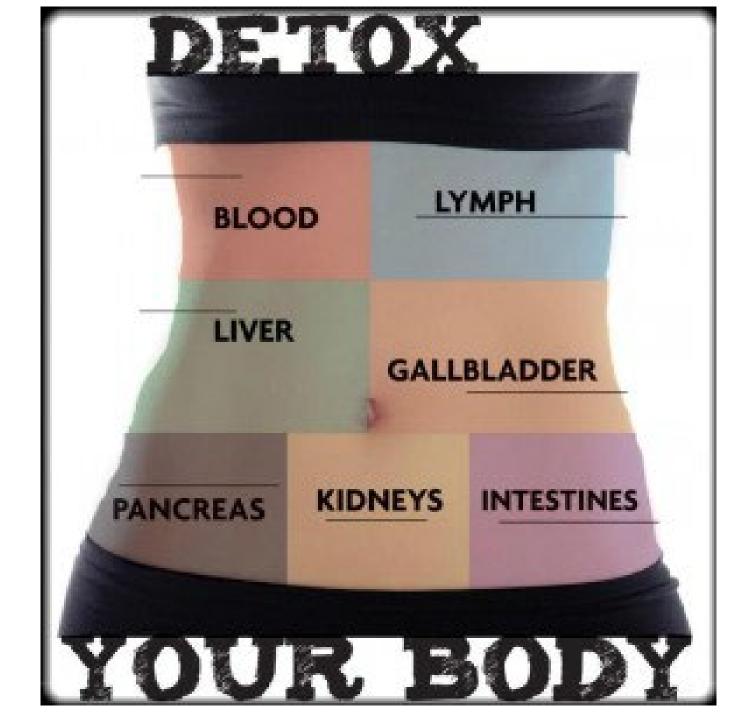
Musser, M.D. William S. J Neuropsychiatry Clin Neurosci 12:280-281, May 2000

Toxins Impair HCI!!!

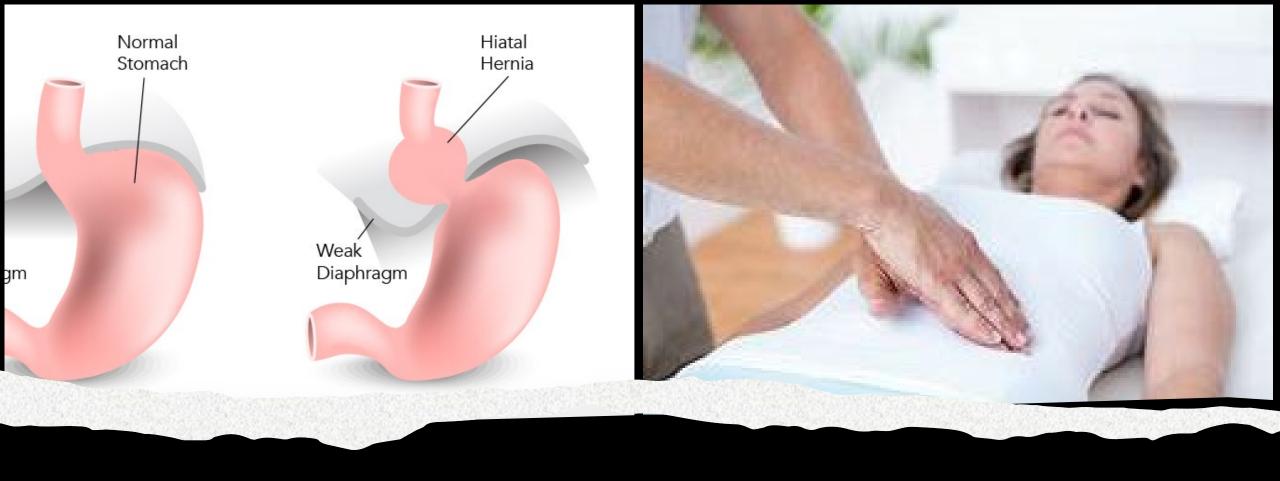


Nutrient Support for Detoxification

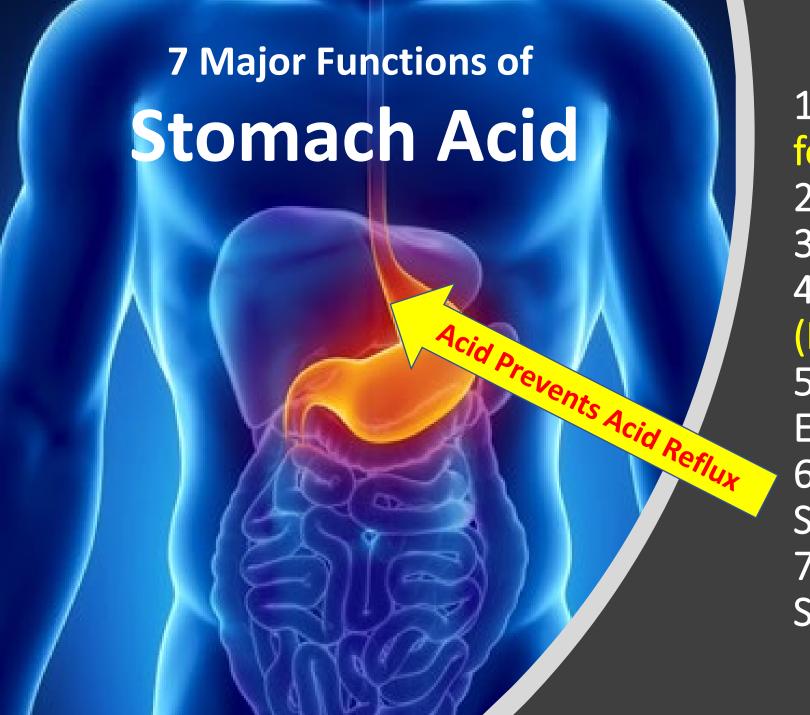




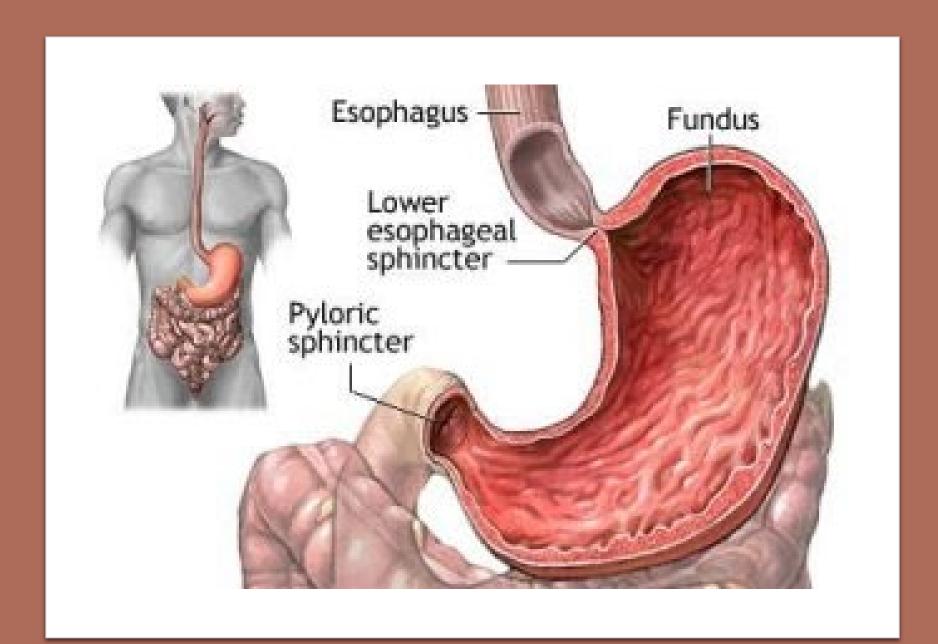
7 to 10 days of detox **functional** foods and **Organic** Vegetables



Hiatal hernia's can be reduced with downward traction.

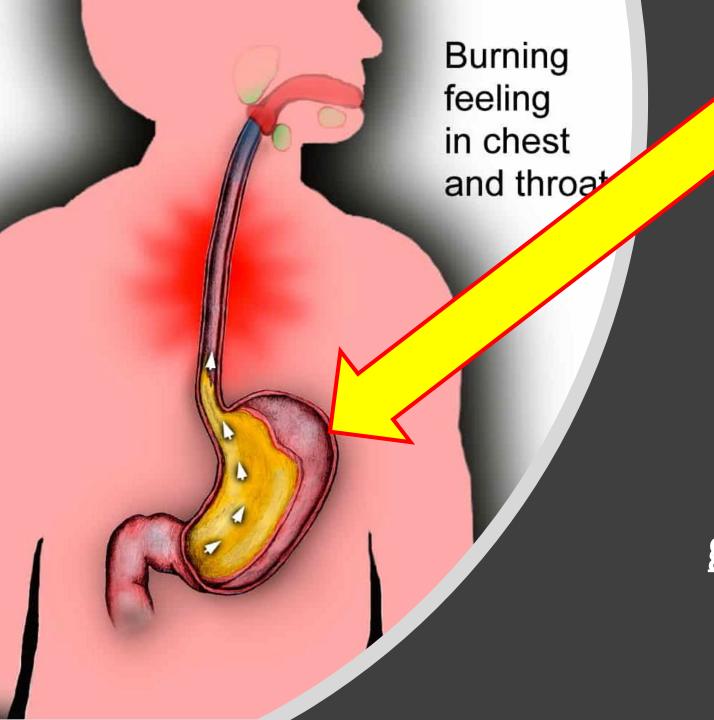


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- 7. Opens the Pyloric Sphincter



"the (lower esophageal) sphincter responds to acid in a dynamic fashion designed to increase sphincteric pressure."

Gut. 1969 October; 10(10): 852–856. PMCID: PMC1552999



"Acidification of the gastric cardia has been shown to increase lower esophageal sphincter pressure...

barrier against gastroesophageal reflux."

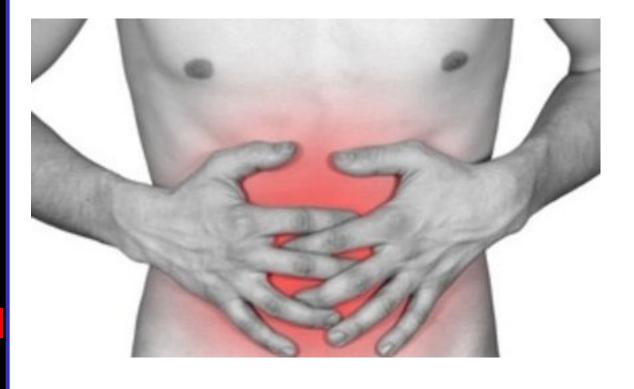
Surgery. 1989 PMID: 2928955

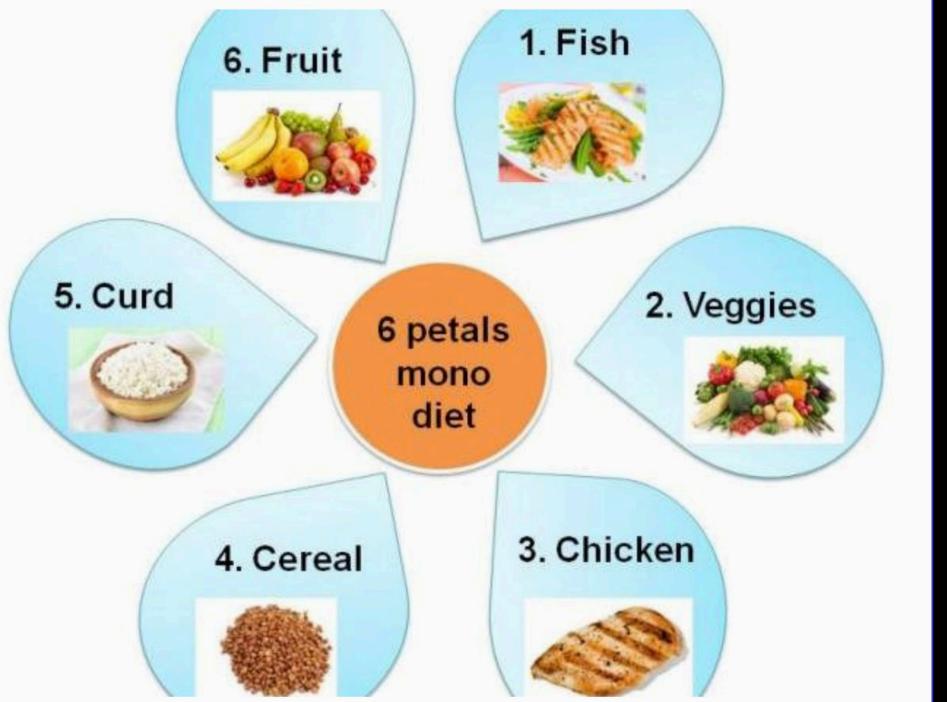
- 1. Day 1: take 1 Betaine HCl tablet (usually 600mg) after each meal
- 2. Day 2: take 2 HCl tablet after each meal
- 3. Continue increasing by 1 tablet per day until you feel a warmth in your stomach or until you reach six tablets per meal
- 4. As your gut improves your body will require less supplemental HCl

If you experience discomfort you can neutralize the acid with water and or baking soda and or Alka Seltzer

IMPORTANT: this test should not be undertaken if there is gastritis or any recent history of gastric ulceration (stomach ulcers).

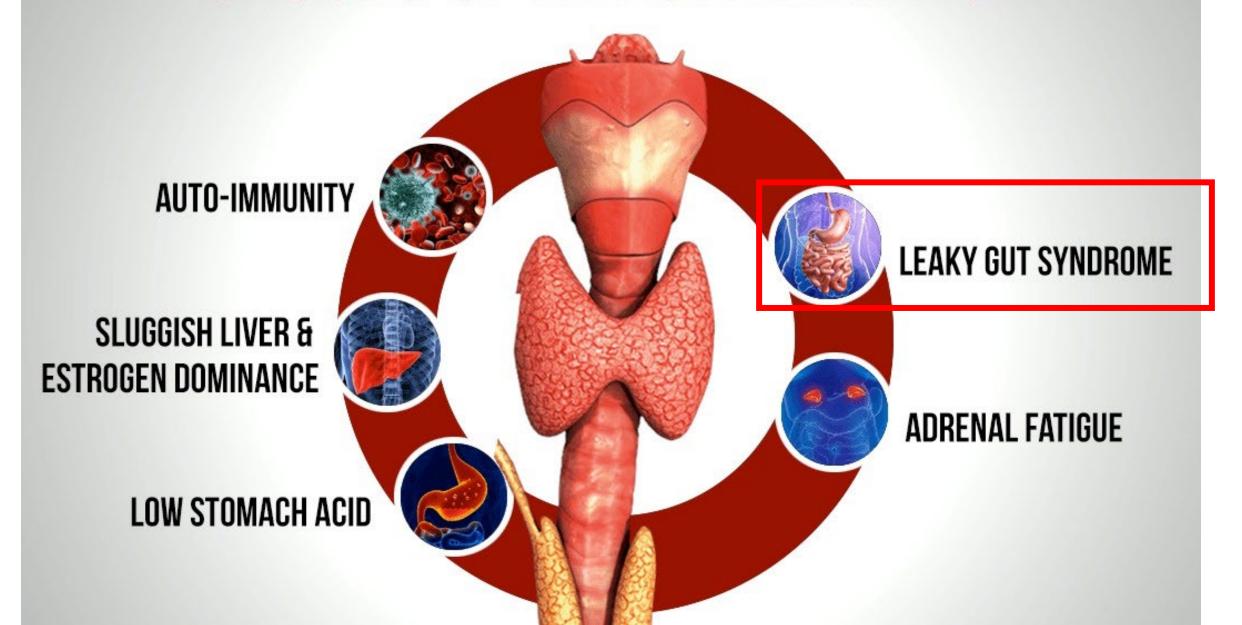


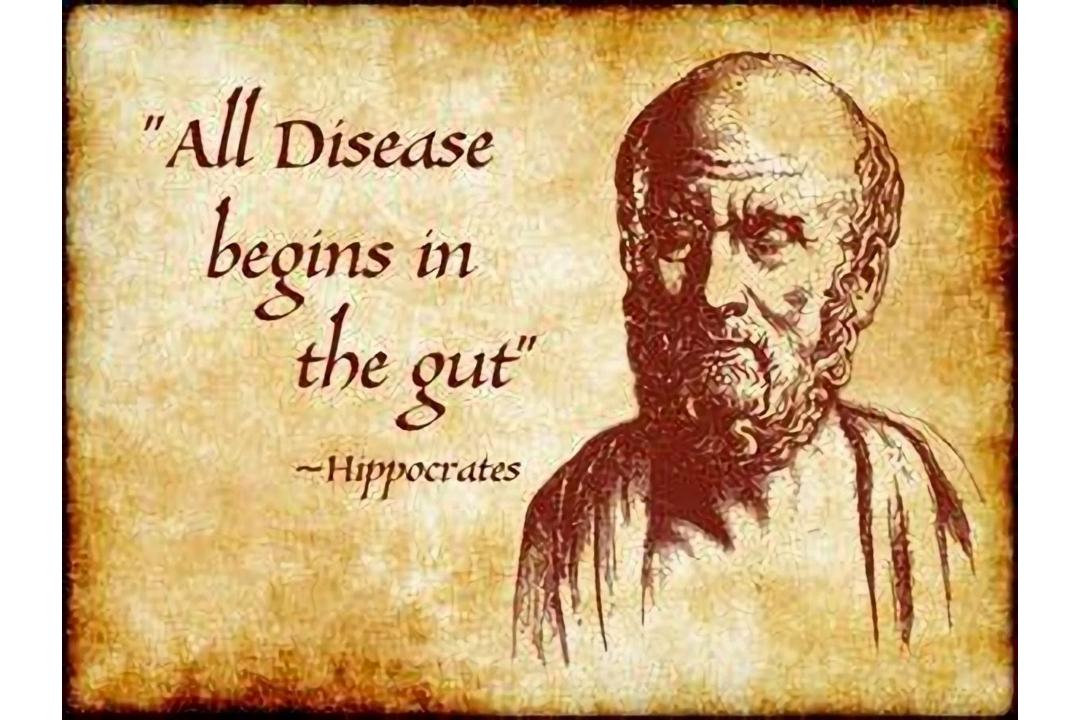




Mono Meals are easier digest

CAUSES OF HYPOTHYROIDISM

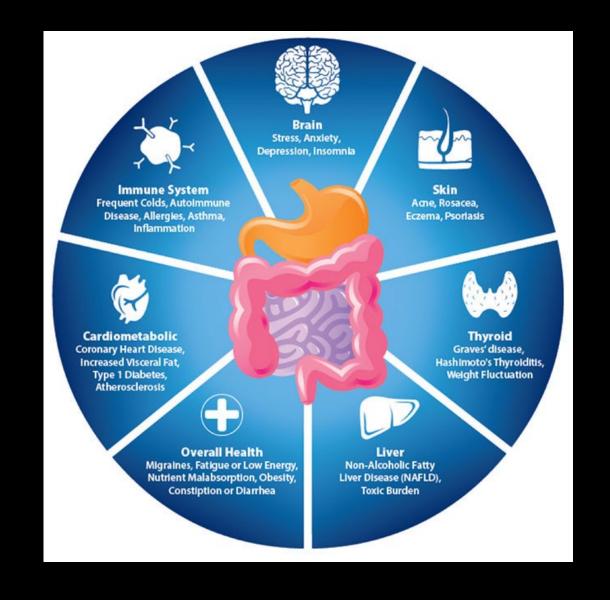




Hippocrates was a little off in stating

"All Disease starts in the Gut"

Many chronic diseases do start in the gut...



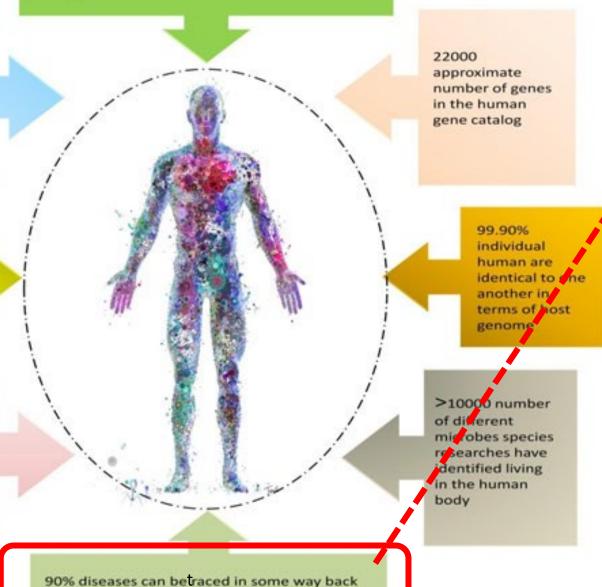
These are 10 times as many outside organisms are there are human cells in the human body

3.3 million number of non-Reductant genes in the human gut microbiome

> 80-90% individuals humans are different from one another

10-100 Trillion of symbiotic microbial cells harbored by each person, primarily bacteria in the gut that make up the human microbiota

to gut health and microbiome

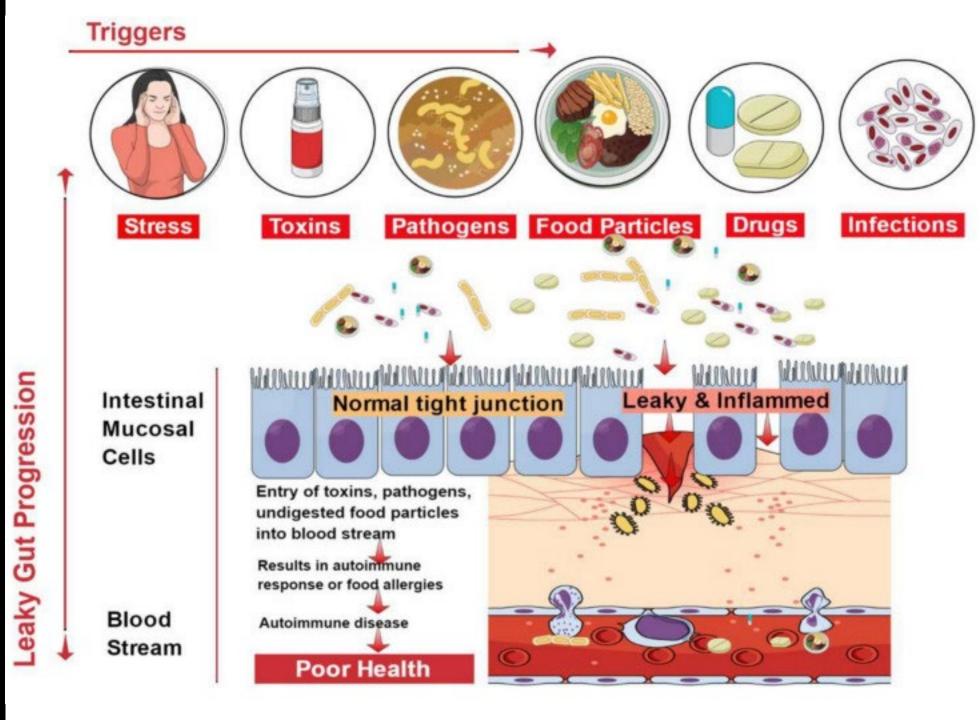


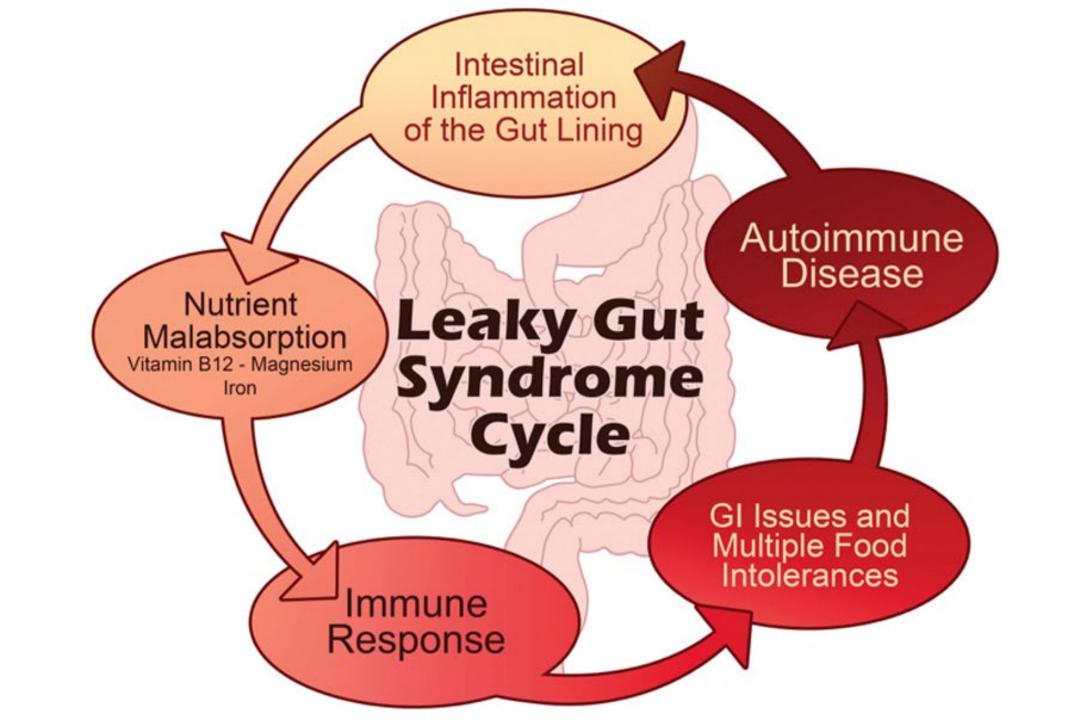
90% of diseases can be traced back to the gut and or Microbiome

334 The Open Microbiology Journal, 2019, Volume 13

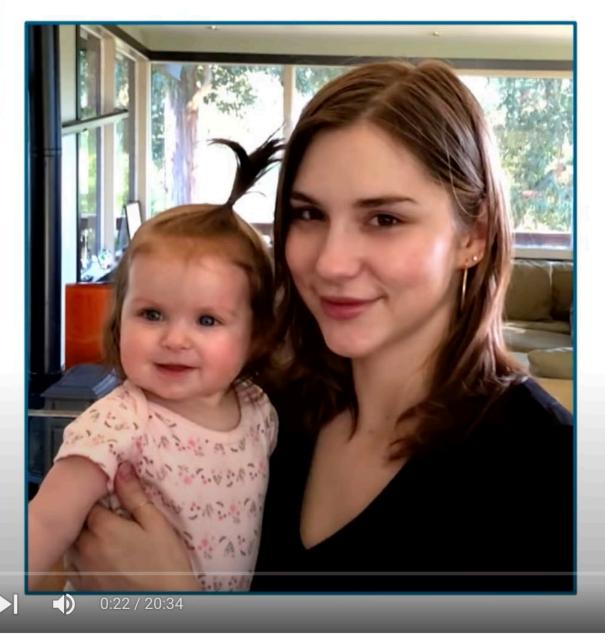
Figure 2 Factors contributing to the development of leaky gut and its relationship to autoimmune diseases. Diet, genetic susceptibility, and environmental conditions, among others, affect the intestinal epithelial barrier integrity. This imbalance leads to compromised barrier integrity and contributes to several diseases.

PMID: 33371435 2020





1



Mikhaila Peterson

Mother. Blogger. Manager. Formerly Dying.

www.mikhailapeterson.com

Don't Eat That









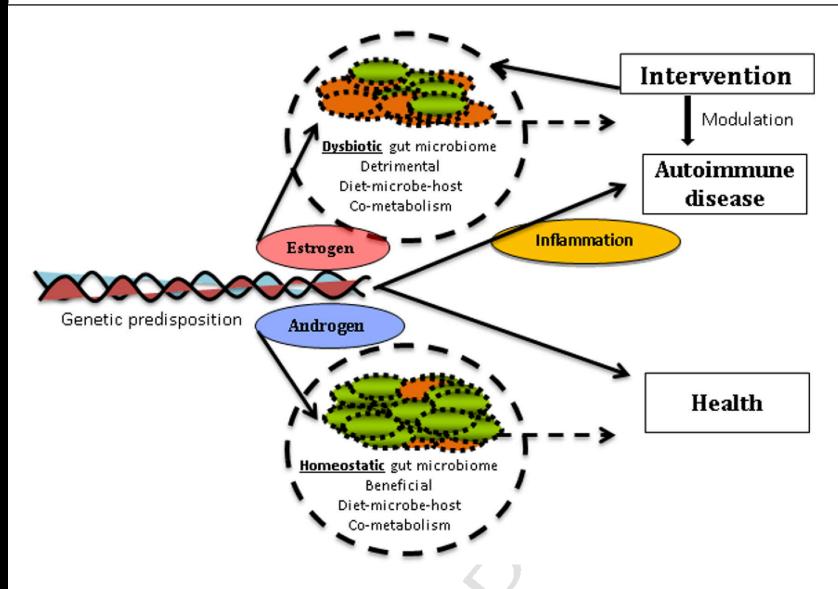






Why I Only Eat Meat - Mikhaila Peterson's Background Story

"Interactions of microbiota and the immune system have been shown to promote and sustain chronic inflammation and PMID: 32044247







Carnivore or Herbivore: How Your Diet Alters Your Gut Bugs



Published: 11 December 2013

Diet rapidly and reproducibly alters the human gut microbiome https://www.nature.com/articles/nature12820

Abstract

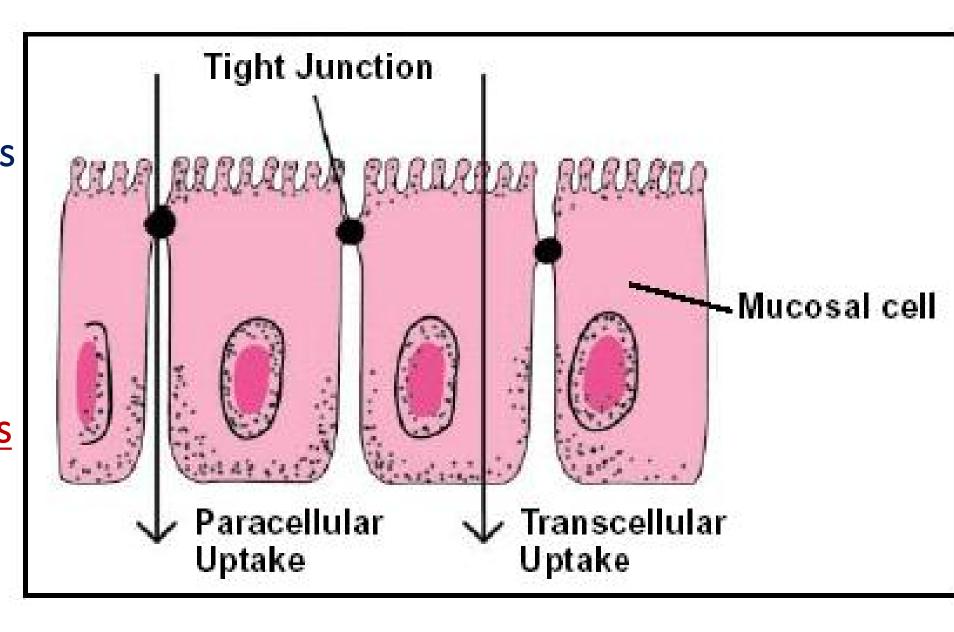
Long-term dietary intake influences the structure and activity of the trillions of microorganisms residing in the human gut^{1,2,3,4,5}, but it remains unclear how rapidly and reproducibly the human gut microbiome responds to short-term macronutrient change. Here we show that the short-term consumption of diets composed entirely of animal or plant products alters microbial community structure and overwhelms inter-individual differences in microbial gene expression. The animal-based diet increased the abundance of bile-tolerant microorganisms (Alistipes, Bilophila and Bacteroides) and decreased the levels of Firmicutes that metabolize dietary plant polysaccharides (Roseburia, Eubacterium rectale and Ruminococcus bromii). Microbial activity mirrored differences between herbivorous and carnivorous mammals², reflecting trade-offs between carbohydrate and protein

fermentation. Foodborne microbes from both diets transiently colonized the gut, including bacteria, fungi and even viruses. Finally, increases in the abundance and activity of *Bilophila wadsworthia* on the animal-based diet support a link between dietary fat, bile acids and the outgrowth of microorganisms capable of triggering inflammatory bowel disease⁶. In concert, these results demonstrate that the gut microbiome can rapidly respond to altered diet, potentially facilitating the diversity of human dietary lifestyles.

"The <u>oral administration of bovine colostrum</u> (BC) reduces endotoxemia in patients with <u>impaired gut barrier function</u>." 2014 PMID: 25242628



"These observations suggest that (vitamin D receptor) VDR plays a critical role in mucosal barrier homeostasis by preserving the integrity of junction complexes and the healing capacity of the colonic epithelium."



PMID: 17962355

CAUSES OF HYPOTHYROIDISM

