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**Subject:** this could be scary

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As I'm trying to learn more about what plants do and aluminum and other stressors do I started to look more closely at what subtle changes in pH can do to particular systems - specifically in the mouth, the stomach and the gut.

And what I am learning is pretty scary. Same for plants and humans. Basically in plants if you lower the pH in the soil for whatever reason bad things happen. Aluminum noticed and studied more bc it is super abundant. But in humans here are some interesting findings:

1. Aluminum is used in all vaccines. (<http://www.chop.edu/centers-programs/vaccine-education-center/vaccine-ingredients/aluminum>) My guess is that it isn't a really big deal in most kids but in those with overly intelligent or cautious parents or where there is some other things going on - they are at risk. There are a ton of studies that show that baby formulas are created to acidify the gut and make it bacteriostatic/"Safe" for babies.

(Acidification of formula below pH 4 is bactericidal to enteric organisms.

Acidified formula decreases bacterial translocation and gut colonization.) Lots of data on this. Normal breast feeding and some formulas seem to be ok. But what if the culprit is really formulas that modify the microbiome to be vulnerable to aluminum in vaccines = autism. Yikes. Not the thimerosal or other things but the aluminum.

2. Tobacco users have the lowest oral pH of anyone, but it has to be long term. What if it isn't really the smoking per se that is causing all the cancers but the change in the oral (and gut) pH that is allowing a similar toxic process to happen. In the case of tobacco users the main metal isn't aluminum but it is cadmium. And in plants too cadmium doesn't cause degenerative disease but a weird cancer like thing related to accumulation.

3. And what if the fluoridation of water is really to partly blame for a lot of this? COULD it be that in places where water isn't fluoridated there is a way lower risk of alzheimer? Check this out: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3026476/figure/F3/> and look up this paper on the antimicrobial actions of fluoride on oral bacteria on <https://www.ncbi.nlm.nih.gov/pubmed/7497353>

The point I'm trying to make I guess is that you open the door to trouble at any age by somehow lowering the pH of the surrounding system and then it's easy for one of the (activated) metals to walk through the door and make trouble. Usually your body does just fine with the metals, just like plants do.

But depending on the place that is acidified (mouth, stomach, gut), the length of stimulus (every day), the patient's age (older more acidic anyway naturally) and which particular stressor/metal - you will have bad stuff happen.

And I think that the effects are only noted by NEUROECTODERMALLY derived cells. Ectoderm and endoderm seem like not affected in the same way. But that's mostly muscles bones and organs anyway.

Super cool.