Excerpt from book titled Silica Water the Secret of Healthy Blue Zone Longevity in the Aluminum age by Dennis N Crouse PhD to be published Fall 2018

Appendix II – Daily Sources of Aluminum

Aluminum can be accumulated in the body by oral ingestion, inhaled as vapor, or injected as an adjuvant in a vaccine. Orally ingested aluminum is preferentially accumulated in the brain, bone, liver, spleen, and kidney of rats⁶⁴ and the brain, breast, retinal, and ovarian tissues of mice⁴³⁹. Aluminum has also been shown to accumulate in the brains of humans²⁶⁶. Inhaled aluminum is preferentially accumulated in the brain of rats via the olfactory nerve⁶⁷. Aluminum in tobacco and cannabis (as much as 0.37% and 0.4% by weight respectively) is volatilized during smoking and is absorbed by the lungs during both active and passive second-hand exposure to smoke⁴⁴⁰.

Avoid products with any ingredient on a label than includes the words: alum, alumina, aluminum, or bauxite.

Daily sources of aluminum are listed in table 36 with the highest indicated with a "*":

Table 36. Daily Sources of Aluminum ^{1,174,440-445}			
Source of	Examples	Aluminum	Safer Alternatives
Aluminum (Al)		(mcg)	
Al Cookware*	Pots, Pans, Calderos, &	775/liter H ₂ O -	Stainless Steel
	Dutch Ovens	350 °F for 1hr.	Cast Iron
			Porcelain - Ceramic
			Non-stick Thermalon
	Aluminum Foil	60,000-220,000	Non-stick Al Foil
		Per Kg of beef	Parchment Paper
		baked 1-3hr.	Plastic Wrap Under Foil
Antacids*	Aluminum Hydroxide:		Calcium Carbonate:
	Equate - Liquid	138,330/tsp	CVS Natural Antacid
	Maalox - Liquid	138,750/tsp	Aluminum= 90mcg/tablet
	Mylanta - Tablets	69,170/tablet	
	Mylanta - Liquid	170,910/tsp	

	Gelusil - Tablets	69,170/tablet		
	Gelusii - Tablets	09,170/tablet		
Antiperspirants	Alum, Bauxite, &	4/use absorbed	Arm & Hammer Essentials	
Timperspirants	Aluminum Chlorohydrate	+/ use absorbed	Schimdts	
Table 36. Daily Sources of Aluminum - Continued				
			Safer Alternatives	
	2Aumpies		Surer rinermutives	
Aluminum (Al)	A . 1 . 41	(mcg)	A : 1 G CT	
Baking Powder*	Acid = Alum:	10.500/	Acid = Cream of Tartar:	
	Davis	48,600/tsp Homemade Baking		
	"Aluminum Free":	5 00/	Cream of Tartar 2 tsp	
	Rumford	790/tsp	Baking Soda 1 tsp	
	Market Pantry	930/tsp	Corn Starch 1 tsp	
	Trader Joe's	>1,000/tsp	Aluminum < 4mcg/tsp	
	Whole Foods 365	>1,000/tsp		
Coffee Makers*	Aluminum Containing:		Non-aluminum Containing:	
	Drip Style:		Drip Style:	
	Black & Decker 1050	37-264/liter	BUNN Speed Brew	
	Cuisinart DCC-450	52/liter	Jura Compresso MG900	
	Cuisinart DCC-1200	182/liter	Nespresso + cups C110	
	Percolator Style:		Keurig K90	
	Presto 0281104	82/liter	Krups Moka Brew	
	Hawthorn 3424	260/liter	Percolator Style:	
			Farberware FCP-412	
			Farberware FCP-240A	
Colorants*	Aluminum Lakes:		No Aluminum Lakes:	
	Kellog Cherry Poptart	1,110/serving	Natural Food Colorants	
	Marsh Green Cookie	154/serving	See Color Kitchen's	
	Cupcakes:			
	Hostess Orange	470/serving		
	Betty Crocker Blue	84/serving		
	Betty Crocker Red	3,470/serving		
	Okedoke Chessy	420/serving		
	Combos	350/serving		
	Hamburger Helper	1,040/cup		
	Scalloped Potatoes	380/cup		
	M&M Milk Chocolate	2,950/48 pieces		
	M&M Peanuts	1,410/15 pieces		
	Skittles Original	3,320/61 pieces		
	Reese's Pieces	660/51 pieces		
	Rainbow Nerds	370/Tbls		
	Sprees	230/8 pieces		
	Jawbreakers:	_		
	Red	130/3 pieces		

	Orange	50/3 pieces	
	Purple	70/3 pieces	
	Green	50/3 pieces	
	Yellow	27/3 pieces	
	Table 36. Daily Sources of		Continued
Source of	·		
Aluminum (Al)		(mcg)	
Cosmetics	Aluminum Containing		Non-aluminum Containing
	Sun Screens & Blocks		Zinc Oxide Sun Screens
	Lipstick		
	Styptic Pencil		
Drinking Water	Tap Water- Alum Treated	179/liter avg.	Tap Water- Brita Filtered
	Bottled Water:		Bottled Water:
	AquaFina	5/liter	Fiji Water 0 mcg/liter
	Eska	5/liter	Poland Spring 0 mcg/liter
	Evian	7/liter	Starkey Water 0 mcg/liter
	Perrier	13/liter	Volvic 0 mcg/liter
	San Pellagrino	23/liter	
E-Cigarettes	10% Al on Woven Tube	4.4/15 puffs	Avoid E-Cigarettes
	in Core of E-Cigarette		
Food*	Contains Baking Powder:		Use Aluminum Free B.P.
	Brownies		
	Cakes		
	Corn Bread		
	Cupcakes		
	Donuts		
	Biscotti		
	Biscuits		
	Muffins		
	Pancakes		
	Scones		
	Tortillas		
	Waffles		
	Fried Chicken		
	Chicken McNuggets		
	Food Containing Alum:		
	Cheese Shredded		
	Some Mt Olive Pickles		
	Some Salt		

	Table 36. Daily Sources	of Aluminum - Co	ontinued
Source of	Examples	Safer Alternatives	
Aluminum (Al)		(mcg)	
Pharmaceuticals*	Al as Active Ingredient:		
	Ascriptin Buff. Aspirin		CVS Buffered Aspirin
	Aluminum as Colorant:		
	Bayer LowDoseAspirin		Walgreen LowDoseAspirin
	Citrucel Caplets		
	Levothyroxine		50mcg pill is white
	Musinex 12 Hour		
	Aluminum for Anticaking		
	Centrum Multivitamins		
	Aluminum as Astringent:		
	Domboro		Use Epson Salts
	Canker Sore Powder		
Pigments	Used for Tattooing		
Soap	Dove Orig Beauty Cream		
-	EnviroKlenz Odor		
	Neutralizing Soap		
Spices	Alum*	5.7% by Wt. Al	Dispose of all Alum
Tobacco*	Aluminum Accumulators	0.4% by Wt. Al	Don't Smoke
& Cannabis*			

Vaccines as a Source of Aluminum – Vaccines contain aluminum as an adjuvant. When injected this aluminum is 23% to 73% bioavailable as opposed to ingested aluminum in foods and water that is only 0.2% bioavailable (i.e. the amount that gets into the blood stream and is accumulated or excreted as urine.) Vaccines need to be considered a daily source of aluminum as the aluminum that is used as an adjuvant in the vaccine is released slowly over at least 28 days after the vaccination⁴⁴⁶. Some of the aluminum adjuvants injected as vaccines in rabbits have been found to be accumulated in their brains⁴⁴⁶.

Note that depending upon manufacturer the amount of aluminum for a given vaccine can vary by a factor of approximately 2 so when possible ask for the lower dose of aluminum:

- Daptacel 330mcg and Infanrix 625mcg
- Quadracel 330mcg and Kinrix 600mcg
- Engerix 250mcg and Recombivax 500mcg
- Gardisil 225mcg and Gardasil 9 500mcg

Table 37. Vaccines that Contain Aluminum			
Vaccine	Aluminum Content		
Daptacel (DTaP – Diptheria, Tetanus, Pertussis)	330		
Infanrix (DTaP)	625		
Kinrix (DTaP + Polio)	600		
Pediarix (DTaP + Polio + Hepatitis B)	850		
Pentacel (DTaP + Polo + Haemophilus influenza B)	330		
Quadracel (DTaP + Polo)	330		
PedvaxHIB (Haemophilus influenza B)	225		
Havrix (Hepatitis A)	250		
Vaqta (Hepatitis A)	225		
Twinrix (Hepatitis A and B)	450		
Engerix-B (Hepatitis B)	250		
Recombivax (Hepatitis B)	500		
Gardasil (Human Papillomavirus / HPV)	225		
Gardasil 9 (HPV)	500		
Bexsero (Meningococcal B)	519		
Prevnar (Pneumococcal)	125		
Td (Tetanus and Diptheria)	530		
Tenivac (Tetanus and Diptheria)	330		
Adacel (Tdap – Tetanus and Diptheria Booster)	330		
Boostrix (Tdap – Tetanus and Diptheria Booster)	390		