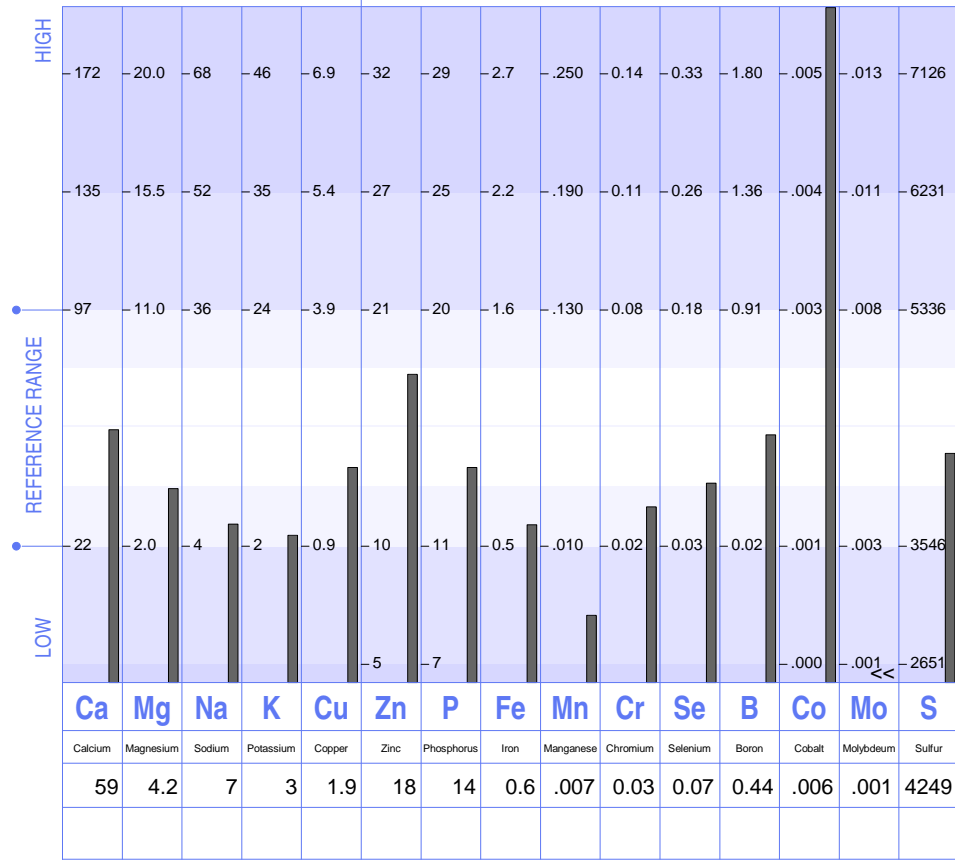
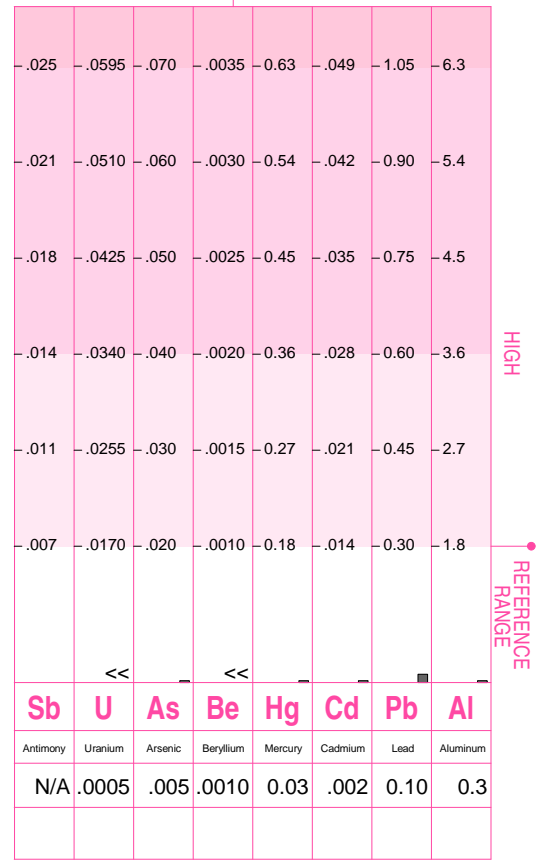


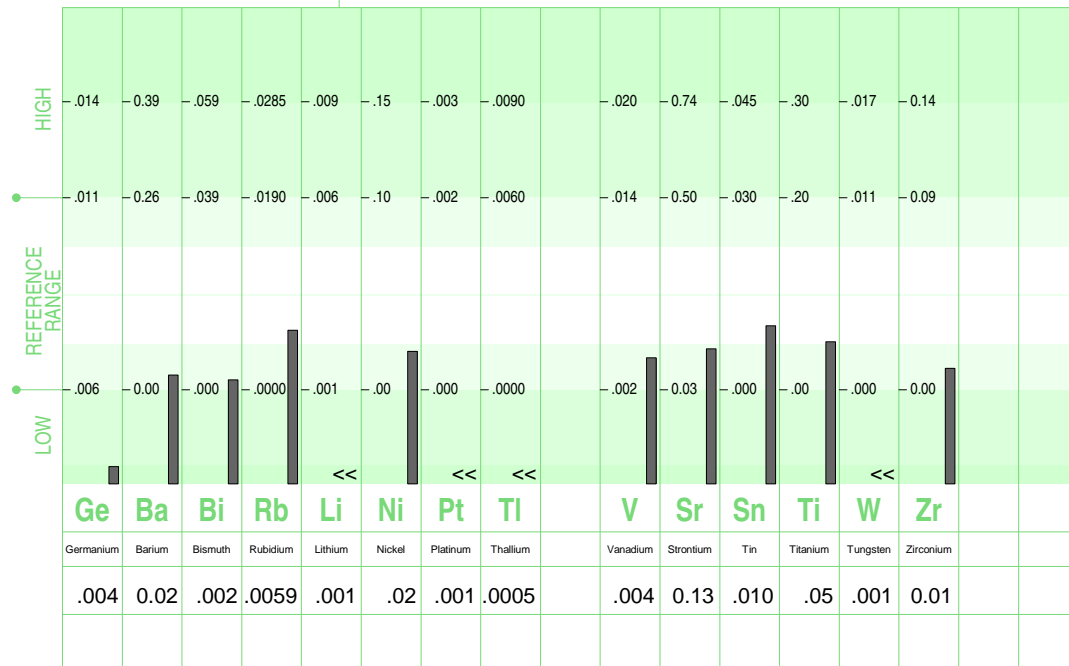
NUTRITIONAL ELEMENTS



TOXIC ELEMENTS



ADDITIONAL ELEMENTS



"<<": Below Calibration Limit; Value Given Is Calibration Limit

"QNS": Sample Size Was Inadequate For Analysis.

"N/A": Currently Not Available

Ideal Levels And Interpretation Have Been Based On Hair Samples Obtained From The Mid-Parietal To The Occipital Region Of The Scalp.

Laboratory Analysis Provided by Trace Elements, Inc., an H. H. S. Licensed Clinical Laboratory. No. 45 D0481787

13/09/2013
CURRENT TEST RESULTS

PREVIOUS TEST RESULTS

Health history for hair test 855

What are your current symptoms and health history?

Current symptoms: Normal Pressure Hydrocephalus and start of Parkinson's disease with poor balance, shuffling gait, deteriorating mobility; urinary frequency especially at night, difficulty swallowing, (pain, aspiration, coughing etc). Disturbed sleep.

Medical History: Depression; Crushed T11, T12 following a fall (1981); TURP for Benign Prostatic Hypertrophy 1991; Osteoporosis; Polymyalgia Rheumatica; Restless Legs Syndrome; Normal Pressure Hydrocephalus VP-shunt 2007; Triple bypass, mitral valve repair 2010; Start of PD 2012; Swallowing difficulty - Odynophagia?? cause not certain, thought to be oesophageal candidiasis but has not responded to anti-candida treatment 2013.

Other – constipation, gut issues; Hypertension

Dental history

Top teeth replaced by plate 1948; Half of remainder gone by 1990; No significant work since 1990, Policy was to have all nerves out, and bare essential maintenance only.

Amalgams date variously from 1935 to 1990.

What dental work do you currently have in place?

Four amalgams remain in lower teeth – probably there for decades.

Mother's dentistry - unknown

Vaccinations

* Suspect no vaccs since mother was religious objector. All standard travel shots in 1950s. Flu shots since 1990.

Supplements and medications

Caltrate, low dose Aspirin, Atacand Plus/Atacand, Sifrol, Zoloft, Omeprazole, occasional use of paracetamol

Current Supplements: Blackmores BioZinc (1x/day)

Recent Supplements; (prior to July 2013): Kelp, Glucosamine and Chondroitin, Fish Oil (1x/day)

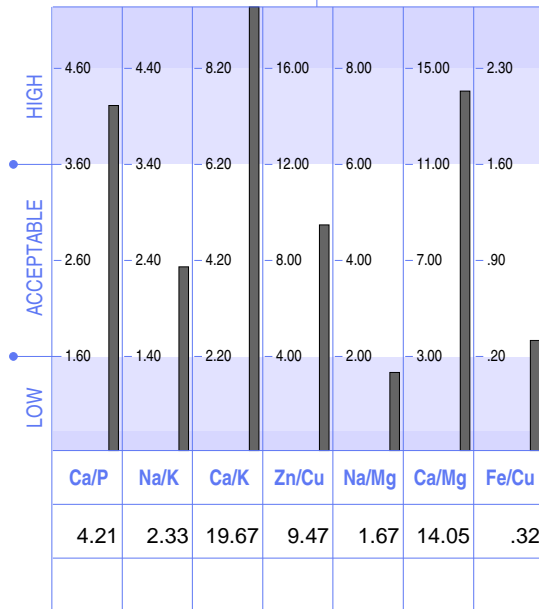
Vit C (2x/day)

Age, height and weight? Age 82; H 1.8m; 80 kg

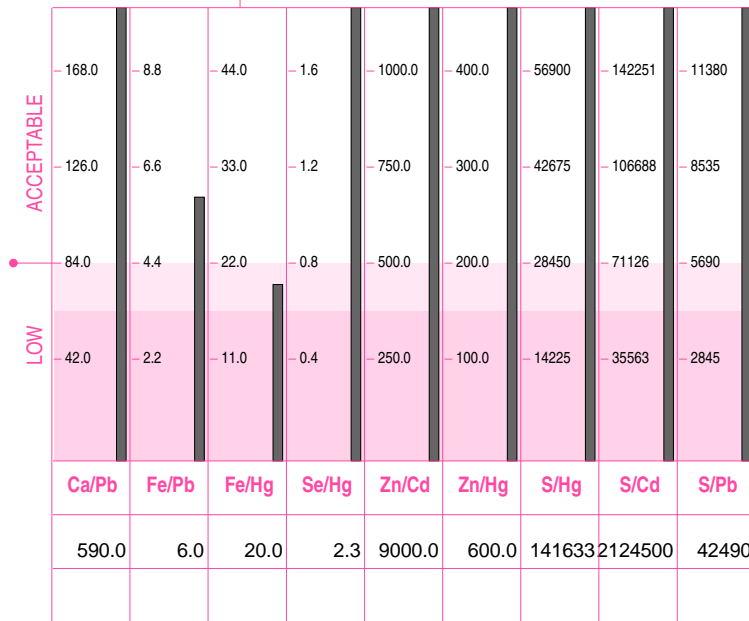
Other information you feel may be relevant? –Electrical engineer (retired 20 yrs), possible HM exposure through professional work and/or hobbies eg soldering, metal work

Location – Sunshine Coast, Australia

SIGNIFICANT RATIOS



TOXIC RATIOS



ADDITIONAL RATIOS

RATIO	CALCULATED VALUE		EXPECTED
	Current	Previous	
Ca/Sr	453.85		131/1
Cr/V	7.50		13/1
Cu/Mo	1900.00		625/1
Fe/Co	100.00		440/1
K/Co	500.00		2000/1
K/Li	3000.00		2500/1
Mg/B	9.55		40/1
S/Cu	2236.32		1138/1
Se/Tl	140.00		37/1
Se/Sn	7.00		0.67/1
Zn/Sn	1800.00		167/1

LEVELS

All mineral levels are reported in milligrams percent (milligrams per one-hundred grams of hair). One milligram percent (mg%) is equal to ten parts per million (ppm).

NUTRITIONAL ELEMENTS

Extensively studied, the nutrient elements have been well defined and are considered essential for many biological functions in the human body. They play key roles in such metabolic processes as muscular activity, endocrine function, reproduction, skeletal integrity and overall development.

TOXIC ELEMENTS

The toxic elements or "heavy metals" are well-known for their interference upon normal biochemical function. They are commonly found in the environment and therefore are present to some degree, in all biological systems. However, these metals clearly pose a concern for toxicity when accumulation occurs to excess.

ADDITIONAL ELEMENTS

These elements are considered as possibly essential by the human body. Additional studies are being conducted to better define their requirements and amounts needed.

RATIOS

A calculated comparison of two elements to each other is called a ratio. To calculate a ratio value, the first mineral level is divided by the second mineral level.

EXAMPLE: A sodium (Na) test level of 24 mg% divided by a potassium (K) level of 10 mg% equals a Na/K ratio of 2.4 to 1.

SIGNIFICANT RATIOS

If the synergistic relationship (or ratio) between certain minerals in the body is disturbed, studies show that normal biological functions and metabolic activity can be adversely affected. Even at extremely low concentrations, the synergistic and/or antagonistic relationships between minerals still exist, which can indirectly affect metabolism.

TOXIC RATIOS

It is important to note that individuals with elevated toxic levels may not always exhibit clinical symptoms associated with those particular toxic minerals. However, research has shown that toxic minerals can also produce an antagonistic effect on various essential minerals eventually leading to disturbances in their metabolic utilization.

ADDITIONAL RATIOS

These ratios are being reported solely for the purpose of gathering research data. This information will then be used to help the attending health-care professional in evaluating their impact upon health.

REFERENCE RANGES

Generally, reference ranges should be considered as guidelines for comparison with the reported test values. These reference ranges have been statistically established from studying an international population of "healthy" individuals.

Important Note: The reference ranges should not be considered as absolute limits for determining deficiency, toxicity or acceptance.