

Patient:

Completed:

INSTITUUT VOOR FUNCTIONELE GENEESKUNDE E

Age:

Received:

Mathaak 3

Sex:

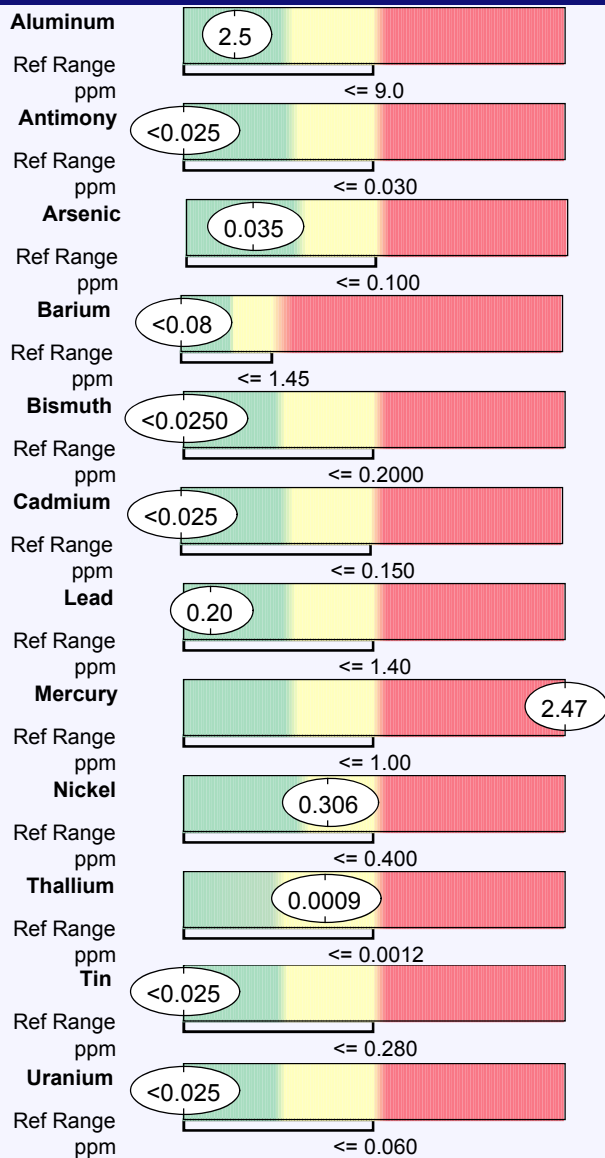
Collected:

Malden, 6581VK

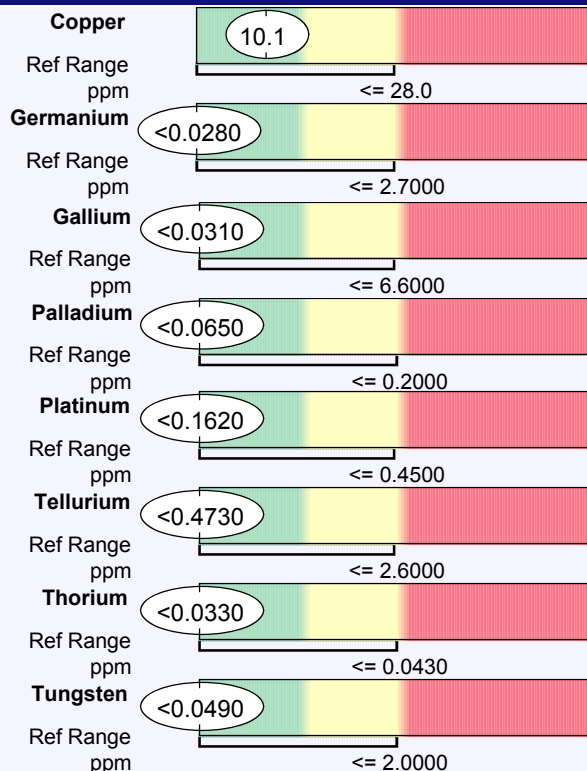
MRN:

THE NETHERLANDS

Toxic Elements



Toxic Elements



This test was developed and its performance characteristics determined by GSDL, Inc. It has not been cleared or approved by the U.S. Food and Drug Administration.

Commentary

Commentary is provided to the practitioner for educational purposes, and should not be interpreted as diagnostic or treatment recommendations. Diagnosis and treatment decisions are the responsibility of the practitioner.

Commentary

Mercury is at an elevated level in the hair. Hair Hg correlates with: Hg deposition in body tissues (kidneys, epithelium, pancreas, testicles, prostate, thyroid, liver), the number and size of dental amalgams, regular ingestion of fish, and blood Hg level when the Hg exposure is periodic or chronic. Both methylated and nonmethylated mercury are readily transported via mother's milk. Transplacental Hg contamination can occur, and hair of neonates and mothers correlate closely.

Manifestations of mercury excess can depend upon the chemical form and mode of exposure, metabolic status and levels of protective nutrients (vitamin E, selenium), the presence of synergistic toxins (cadmium, lead), and immune function. Hg binds to sulfur-bearing proteins and enzymes and has strong affinity for sulfhydryl groups (SH) such as glutathione, cysteine, and enzymes such as monoamine oxidase.

Mild mercury toxicity may result in reduced sensory abilities (taste, touch, vision and hearing), metallic taste with increased salivation, fatigue and anorexia. Chronic exposures may adversely affect lymphocyte activity, result in autoimmune complexes and increased risk for cardiovascular disease. Moderate and severe mercury excess can result in paresthesias, hypertension with renal dysfunction, irritability and excitability, psychoses, mania, anemia, tremors and incoordination.

* (if present): Observations of Bob Smith, Vice President, Elemental Analysis, who has approximately 20 years experience working with hair analysis reports.