

THREE GOOD REASONS TO TEST YOUR MERCURY (Hg) LEVEL IN YOUR BIOLOGY

FLASH-INFO HEALTH AND INFRACLINIC MEDECINE

1. YOUR DENTAL FILLINGS

A dental filling is composed of 50% Mercury, 30% Silver, 9% Tin, 6% Copper and Zinc traces.

One should know that often after 5 years, there are only about 50% of these metals that remain in the fillings.

2. YOUR DAILY EATING HABITS

Fish comes last on the list of the food chain since it accumulates the methylmercury in its own flesh. We estimate approximately at 50ng/Kg.

3. YOUR INNOCULATION PROGRAM

A vaccine holds between 0.5-25 µg/L of Mercury (thimerosal). The latter has been added.

Mercury is a very toxic heavy metal: the most toxic ones are Thallium (Tl), Thorium (Th) and Uranium (U). There is no metabolic function known within the organism. Consequently, the presence of these metals is considered as toxic irrespective of its concentration.

The determination of Mercury urinary values represents important information on the biological aspect and permits to evaluate the elementary Mercury as well as the inorganic rate of Mercury in the biology.

Its concentration's limit is of 260 nmol/L, or 52 µg/L, according to which country is involved.

Mercury vapors are odourless, colourless, and tasteless; therefore, they do not create any reaction of protection.

The Mercury that is being rejected in the environment finds itself again in waters and the atmosphere. When meeting bacteria, it transforms itself into organic Mercury (Methylmercury) that is assimilated by shellfish and fishes.

After consumption, the organic Mercury fixes itself to hemoglobin and is dispatched throughout the whole organism: These molecules accumulate within the central nervous system. This accumulation is defined as a neurologic syndrome.

Ionic Mercury sets to thiols groups (SH) from amino acids whilst forming metalothioneins. These groups lower cellular metabolism by modifying protein synthesis and nucleic acids.

Acute intoxication to Mercury is rare. It is caused by chemical industrial accident.

Chronic intoxication appears when central and peripheral nervous system is touched and may be defined as follows: Parasthesia, ataxia, shakings, character disorders and diminished psychometric performances may be observed.

GLYCANLAB strongly commits to take part in actions regarding infraclinic and preventive medicine.

GLYCANLAB uses the most modern technology tools (ICP-MS; GC-MS), and has a team of scientific experts and doctors to detect and define the presence of Mercury (and other toxic elements in your organism). They are prepared to give you the best advice and methods with regard to deal with toxic metals and proceed at their dechelation.

PREVENTION = HEALTH: An analysis is available from our laboratory and may give you information of the Mercury status in your biology.

References :

- ✓ ATSDR. Toxicological profile for Mercury. US Department of Health and Human Services. Public Health Service, Agency for toxic substances and disease registry 1999: 617p.
- ✓ Le Blanc A, Et al. Study on trace and toxic elements reference set values in the blood, serum and urine, of the population from Quebec high provincial state. National Institute of public Health of Quebec, 200b.
- ✓ Dewailly Et al. Effect of Mercury exposure on oxidative status and neuromoto functions of an Inuit population of Nunavik. Report from Public Health Unit research, Research centre of CHUL-CHUQ, April 2003.

Conversion of unities:

1 µg/L = 1 ppb (part of billions)

1 ppm = 1000 ppb