Lindh et al. 2002

- 400 Patients
- Several complaints for years and decades
- Many therapies without success
- Yet, Removal of dental heavy metals
- Result: Alleviation of symptoms in 70% of the patients

Toxicity of amalgam compared with Composites


The Ende

Release of 2-3 g Hg per cremated cadaver in the EU (cremation-rate:75%).
0.3-2g Hg is deadly

Mercury (Biochemical Effects) I

- Inhibition of enzymes, ion channels and transport proteins
- Protein aggregation
- Free radicals and ↓ antioxidants enzymes
- Strong binding with Selenium (Hg-Selenide)→
  - ↓ Se-dependent enzymes (e.g. glutathione peroxidase)
  - Selenium depletion
Mercury (Effects) II
- Lipid peroxidation, leading to membrane damage
- DNA damage
- Nonspecific inhibition and specific activation of the immune system
- ↓ Nerve growth factors

Mercury (Effects) III
- ↓ Glutamate degradation and ↑ glutamate oxidation
- Irreversible inhibition of tubulin (the most important intracellular transport protein; it is especially sensitive to mercury)
  - Decreased endo- and exocytosis
  - ↓ Neurotransmitters
  - Profound effect on non-dividing cells (e.g. nerve cells)

Mercury (Effects) IV
- ↓ Glutathione (the most important cell protective enzyme)
- ↓ Energy metabolism (glucose, mitochondria, ATP, NADH)
- Synergistic effect (1+1=100) with other toxins, for example LD1 (Hg) and LD1 (Pb) = LD100
- In vitro: ↑ Tau + NFT + A-Beta via Hg in low concentration


Evidence supporting a link between dental amalgams and chronic illness, fatigue, depression, anxiety, and suicide


Quelle: Dr. Scholz, www.zahnklink.de
New science challenges old notion that mercury dental amalgam is safe

Kristin G. Homme · Janet K. Kern ·
Boyd E. Haley · David A. Geler · Paul G. King ·
Lisa K. Sylves · Mark R. Geler

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