Toxicity of dental-metals, mercury and interaction with HF-EMF: Root of many diseases including MCS, EHS, CFS?

Interaction of mobile phones with superficial passive metallic implants. Virtanen et al. 2006: Department of Applied Physics, University of Kuopio, Finland.

"...The local peak SAR values increased even by a factor of 400-700 due to a pin or a ring. These highest values were reached in a limited volume close to the implant surface in almost all the studied cases.".

Radiofrequency dosimetry in subjects implanted with metallic straight wires: a numerical study. Mattei et al. 2008

"...The results of the model show that the presence of a metallic wire yields to a significant increase in the local specific energy absorption rate (SAR). The present standards and/or guidelines on safe exposures of humans to EMF does not cover persons with implanted devices ..."

Dental Metals as EMF-enhancer near brain tissues

Source: Dr. J. Lechner


„...A 48year woman was suffering from dizziness, unsteadiness, and a sense of fatigue for several years..."

„...In Conclusion, removal of her implant resulted in a marked improvement in her sensitivity to electromagnetic waves...“

Case: 40 year-women: Extreme EHS, autoimmunity, brain atrophy
Causes of EHS
Genuis & Lipp 2012 Sci Total Environ 414:103-112

EMF
Factors:
1. Toxins, like heavy metals, metallic implants
2. Genetic (low detox-enzymes, like GST, NAT, SOD)
3. Deficiency of micronutrients, unhealthy nutrition

Magnetosom hypothesis

...The biological effects of electromagnetic waves are due to the existence of millions of magnetosomes...

...These magnetosomes, under the effect of electromagnetic fields, would cause deleterious biological responses...

Some metals in the brain may enhance the EMF

What we regularly see in severe ill patients (Cancer, ALS, Alzheimer’s, Parkinson’s, MS, Depression, EHS, MCS, CFS, etc. despite amalgam has been removed years ago in some cases...

Mercury amalgam under crowns
www.tagesklinik-konstanz.de

Mercury amalgam tatoos

Metastatic cancer (G3), EHS with headache, depression, sleeping disturbances
Mercury in soft tissue and jaw bone

EHS, Headache, permanently sinusitis

Severe MS, EHS

BS: Parkinson, MCS

AS: EHS (Blepharospastic, sleepings disorder, diabetes, hypertension, pain of the whole body)
B. H. Fatigue, EHS, depression

Impossible d'afficher l'image liée. Le fichier a peut-être été déplacé, renommé ou supprimé. Vérifiez que la liaison pointe vers le fichier et l'emplacemen corrects.

Hidden mercury amalgam in soft tissue

www.dr-scholz.de

Jaw bone with mercury amalgam

Amalgam: > 50% elemental mercury

Mercury, permanently released by amalgam
- Most toxic non-radioactive element, - 10-fold more toxic than lead (Pb) (Thier et al. 2003, Stolber et al. 2004)
- Synergistic toxicity: Letal Dosis (LD) \[0.1 \times LD_{1\text{(Hg)}} + LD_{1\text{(Pb)}} = LD_{100}\] (Schubert et al. 1978)

Main sources of mercury for humans (WHO, 1991)

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<tr>
<th>Source</th>
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People with Dental Amalgam:
- 2-12 times more Hg in body tissues
- 3- times more Methyl-Hg in saliva
- 2-5× more Hg in blood+urine+feces
- release Hg into environment since >170 years


Mercury from amalgam
Microorganism in mouth, jaw infections, root filled teeth

Organic mercury compounds:
Oral Supertoxins

Parkinson’s disease, MCS

Tissue levels (µg per kg)
- Pb 40
- Cd 30
- Au 3800 (-<25)
- Pd 60 (-<25)
- Ag 70000
- Hg 390 (-<2)

>10 fold more Hg in brain tissues (Guzzi 2006)
Hg in brains of amalgam bearers:
- 300 ng/g, when >12 amalgam fillings (Guzzi et al. 2006)
- 20-200 ng/g lead to neurodegeneration in-vitro and in-vivo (Leong et al. 2001, Pendergrass & Haley 1996)
- Brain Hg↑↑→ Risk for suicide↑↑ (Guzzi et al. 2006)

Hg levels in cord blood:
- Normal Hg: 0.2-5 ng/ml (Stoz et al. 1995)
- Risk for neurodevelopmental disorders 3.5-fold increased, when Hg in cord blood > 0.8 ng/ml (Jedrychowski et al. 2005, Ng et al. 2014)

Mercury in cord blood:

Increased Hg-susceptibility: SNP’s
- Hypomethylation (Waly et al. 2004)
- Brain derived neurotropic factor (BDNF) (Boris 2004)
- MTHFR-677-Mutation (Boris 2004)
- COMT (Woods et al. 2014)

Hg from Amalgam: Risk for
- Antibiotic resistant bacteria (Ready et al. 2007, Summers et al. 1993)

Mercury levels of MCS patients

...Conclusions: Our data show an increased prevalence of metalic allergy and elevation of mercury levels in bioindicators among patients with MCS.“

Increased Hg-susceptibility: SNP’s
- Hypomethylation (Waly et al. 2004)
- Glutathion-synthesis (Custodio 2004, 2005)
- Brain derived neurotropic factor (BDNF) (Echeverria 2005, Heyer 2004)
- MTHFR-677-Mutation (Boris 2004)
- COMT (Woods et al. 2014)

Hg from Amalgam: Risk for