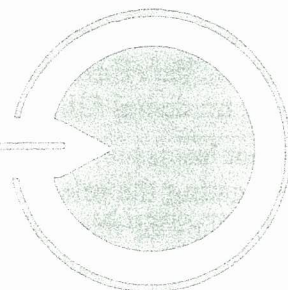


BIO-PROBE

NEWSLETTER



Volume 5

March 1989

Issue 2

SWEDISH PARLIAMENT HAS STATED THAT THE USE OF AMALGAM WILL BE DISCONTINUED AS SOON AS A SUITABLE REPLACEMENT IS AVAILABLE.

This statement by the Parliament is in addition to an existing prohibition on the use of amalgam during pregnancy. Further it appears that this prohibition will be extended to children in the near future. The Third Amalgam War may continue on for a while yet in Sweden before there is complete surrender but the major battles are being won by the anti-amalgam patients, scientists, medical doctors and dentists.

The Swedish Parliament has further stated that funding for research on the health effects of amalgam will be made available. To this end, Dr. Lars Friberg has submitted research proposals calling for the allocation of a total of 16 million Swedish Crowns over the next four years. Dr. Friberg's research proposals will investigate and evaluate, among other things, the release and uptake of mercury vapor from amalgam; its effect on the immune system; the impact on neurological function of the CNS; and effects on reproduction.

The Swedish Medical Research Council has approved initial funding of one million Crowns for work to begin. A previously approved project of the Medical Research Council, the writing of a booklet addressing the amalgam controversy, has been completed. The leading Swedish authorities on both sides of the issue participated in providing their views to the author. Bio-Probe understands that the

conclusions to be drawn from this effort appear to weigh heavily in favor of the anti-amalgam position. The booklet, some 70 plus pages in length is being distributed to libraries and schools and being made available throughout Sweden so that everyone from children on up will be able to read the facts about the amalgam issue and draw their own conclusions. Something sorely needed in this country.

It is interesting to note, that the study by Dr. Mats Hanson that follows was done in 1985. A tremendous amount of progress in exposing the true facts has certainly transpired since that date. We feel that when this page in history is written, the whole world will owe a debt of gratitude to Dr. Hanson and his dental patient organization and the political pressure that they brought to bear on the issue. We will also be indebted to those wonderful scientist researchers, all over the world, who

TABLE OF CONTENTS

<i>Editorial - Current amalgam situation</i>	1
<i>Amalgam toxicity - Epidemiological symptom study. Hanson</i>	3
<i>The contribution of dental amalgam to mercury in blood.</i>	7
<i>In vitro oxidation of mercury by the blood. Hursh</i>	7
<i>Distribution of mercury 203 in pregnant rats and their fetuses following systemic infusions with thiol-containing amino acids and glutathione during late gestation. Aschner & Clarkson</i>	7
<i>Sn in the Ag-Hg phase of dental amalgams. Mahler</i>	8
<i>Long term clinical failures in posterior composites</i>	9
<i>In-vitro microleakage of glass ionomers and dentin bonding agents. Leary et al.</i>	9
<i>Rate of mercury dissolution from amalgam/alloy galvanic couples</i> 10	
<i>Profile of respirable particulate produced during amalgam removal. Nimmo et al.</i>	10
<i>Filtration efficiency of dental masks during amalgam removal. Nimmo et al.</i>	10
<i>Nocturnal bruxing and sleep posture. McGlynn</i>	11
<i>Beta Carotene decreases growth and GGT in human carcinoma</i>	11
<i>Experimental cancer regression by oral administration of combined alpha tocopherol - B Carotene. Trickler et al.</i>	12
<i>FORUM</i>	12

have and are continuing to provide the scientific validation of the unsuitability and toxicity of amalgam as a dental material. Soon the results and findings of new experiments will be providing additional scientific data further demonstrating the potentially devastating health effects of mercury released from amalgam dental fillings. These new studies could be the coup-de-gras to the pro-amalgamists.

In our last issue, we talked of the major research effort underway at the University of Calgary in Canada, investigating the release and uptake of mercury from amalgam dental fillings. I am still not at liberty to disclose any of the findings but let it suffice to say, that the initial experiments have produced enough scientific data to complete three articles that have been submitted for publication. I am also happy to report that the International Academy of Oral Medicine and Toxicology has provided a total of \$13,000 funding to the University of Calgary in support of this particular research project. The same is true for the Foundation For Toxic Free Dentistry which has just made a contribution of \$2000 to the University of Calgary for this same project.

In Sweden, Dr. Magnus Nylander has completed work on another project showing the relationship of amalgam fillings to the mercury content of the pituitary gland. Again, we are not at liberty to disclose any further data because it has been submitted for publication.

When published, these papers will be another step in the process of leaving the establishment twisting slowly in the breeze, all alone with their "experts". The same can be said for the National Council Against Health Fraud spokesmen such as John Dodes and William Jarvis who have publically stated that any dentist who considers mercury amalgam dental fillings to be a health hazard is a fraud or a quack. What we find especially interesting in this regard is that more and more attorneys are requesting scientific data on the mercury issue. Remember, all we need is one successful court case and the ball game is over. Before the amalgam story is completed, it will take an act of Congress to save the pro-amalgamists who have so willfully ignored the preponderance of scientific data that has been published since 1984. Will we ever know how many millions of innocent victims of mercury toxicity there are because they listened to the unconscionable and negligent misrepresentations of the establishment experts on the "safety" of amalgam?

An abstract of a scientific study completed at the University of Iowa and published in the March 1989 issue of the Journal of Dental Research adds additional refutation of the pro-amalgam position that essentially claims that amalgams make no contribution to blood mercury levels. The study demonstrated that when amalgam fillings were removed from the test subjects there was almost a 50% drop in blood mercury levels. This was a statistically significant drop in 9 of the 10 patients in the study. The full abstract is contained in the ABSTRACT/REVIEW Section of this issue and provides what we consider to be very significant data:

1. Amalgam dental fillings DO make a significant contribution to mercury levels in the blood.
2. The definition of half-times for the elimination of mercury from blood after amalgam removal is extremely important and to our knowledge, the first time such data has been published. Based on the half-time provided, it appears that it should take about 6 months for blood mercury levels to stabilize at those related only to environmental and dietary sources.
3. Two prior studies by Ott & Kroncke (1981,1984) concluded that amalgams make no contribution to blood mercury levels. Other scientists around the world have questioned the validity of the protocols and methodology utilized by Ott & Kroncke. This study directly refutes the Ott & Kroncke work. If nothing else, their work can no longer be cited by the establishment as unequivocal proof!