

## References for Protecting Yourself from Dental Office Contaminants

AGD Conference Orlando Florida July 2008

### Slide 1-2 Introduction

**Slide 3 What is the IAOMT** The IAOMT began in Canada in 1984 by 13 dentists who were “evidence based” before their time. They wanted peer reviewed science, not anecdotal evidence, to substantiate the biocompatibility of dental materials used in their offices. Funding has been provided to the University of Georgia, University of Kentucky, and the University of Calgary as well as other researchers over the last 24 years.

### Slide 4 AGD

### Slide 5,6,8,9,11 Commentary

**Slide 7 Women of child bearing age** Gelbier S. *J Public Health*, (1989) 103, 35-40.

**Slide 10 Dental amalgam as occupational hazard** Sharma R. Obersteiner E. *J Comp Path*, 91,1981. *Environmental Health Criteria*,118: Inorg Mercury,WHO Geneva 1991.  
<http://atsdr1.atsdr.cdc.gov:8080/97list.html>

**Slide 12 Mercury accumulates in dental personnel** Morton, J. *Biomarkers*, 2004, 9: 47-55.

**Slide 13 Dentists have a significant body burden of mercury** Battistone G. et al. *JADA* 92:1182-8,1976. Naleway C. et al. *JADA*, 111:37-42, 1985. Verschoor MA et al. *Community Dent and Epidem*,Vol 16, 3, June 1988. Shapiro I. et al. *Lancet*, 8282:1147-50,1982. Ahlbom A et al. *Br Med J*, 292, 662,1986. Nylander M. *Lancet*, 442, Feb 22 1986. Horsted-Bindslev. *J Dent*, 2004: 32:359-365.

**Slide 14 Women are at a higher risk** Gelbier S, Ingram J. *J Public Health* 103(1):35-40 1989. Sikorski R et al. *Int Occup Environ Health* 59 (6). Gordon H. *Proceedings of the Inter Conf on Mercury Hazards* Gloscow Scotland 2-4 Sep 1981. Rowland AS et al. *Occup Environ Med* 1994; 51:28-34.

**Slide 15 FDA** <http://news.yahoo.com/s/nm/20080605/sc>

**Slide 16 Even removal can cause hazards** Nimmo A. *J Prosthet Dent* 63(2):1990 Feb 228-33. Stonehouse CA. *Br Dent Jrl* 2001 190 (10):558-60

**Slide 17 18 ADA Stds** *ADA News* 1 Aug 1988. *JADA* 2003 (134) 1498-1499. Dispersalloy amalgam directions package insert. Langworth S. *J Dent Res* 1997 (76): 1397-1404.

### Slide 19 Commentary

**Slide 20 WHO OSHA** [www.msanet.com](http://www.msanet.com)

**Slide 21 Real everyday exposure to mercury** Gronka PA et al. *JADA* 81:923-925, 1970. Ochoa R. et al. *Tex Dent J* 100 (1):6-9. Gordon H Gordon L. *J Dent Res Abstract* #1092 57A:347, 1978

**Slide 22, 24 When Drilling** Hudacek R. *Swedish Council for Planning and Research Coordination*, 1999, p 78-84.

**Slide 23 Picture of Cleanup™**

**Slide 25 Your regular mask does not protect you** Nixon G. *Brit Dent J* 131:308-11, 1971. Cutright D et al. *J Oral Med* 28:100-4, 1973. Lannroth E. *Swed Dent J* 1998 22(1-2) 33-45

**Slide 26 These masks will help you** [www.msanet.com](http://www.msanet.com) Or order from 3M a mask fitted with mercury rated cartridge 6009 and a P200 pre filter. Or see your supply salesman to split your oxygen line to your patient.

**Slide 27, 28 Masks**

**Slide 29 Healthier Air in the Dental Office** *Sci Tot Environ*, 2002,297 (1-3):153-60. Richardson M. *Human Ecological Risk Assessment* 2(4)709-761. Tezel H et al. *Brit Dent J* 191, 8, 2001.

**Slide 30,31 DentAirVac™** [www.dentairvac.com](http://www.dentairvac.com) Stone M. *Dent Mater* 2007 23:527-532.

**Slide 32, 33 HEPA filters help clean the room** [www.foustco.com](http://www.foustco.com)

**Slide 35 TactAir™ uses ionization to clean your room** [www.nucove.com](http://www.nucove.com)

**Slide 36 Monitor your exposure** Do not use a hair analysis Cianciola A et al. *Toxicol Environ Health*, 1997,52(1):19-23. Contact Doctors Data Lab, West Chicago, Illinois. Woods,J. *J Toxicol Env Health* 40 (2-3) p 235, 1993.

**Slide 37,38,39 Conclusions**

Please contact the IAOMT with any questions.

