

**Selected Scientific Literature Related to  
SAFE AMALGAM REMOVAL**  
Prepared by the [International Academy of Oral Medicine and Toxicology](#)  
(IAOMT)  
to accompany our Safe Amalgam Removal Online Learning Video

\*Aaseth J, Hilt B, Bjørklund G. Mercury exposure and health impacts in dental personnel. *Environmental Research*. 2018 Jul 1;164:65-9. Abstract available from: <https://www.sciencedirect.com/science/article/abs/pii/S0013935118300847>

Adegbembo AO, Watson PA, Lugowski SJ. The weight of wastes generated by removal of dental amalgam restorations and the concentration of mercury in dental wastewater. *Journal-Canadian Dental Association*. 2002; 68(9):553-8. Available from: <http://cda-adc.ca/jadc/vol-68/issue-9/553.pdf>

Alothmani O. Air quality in the endodontist's dental surgery. *New Zealand Endodontic Journal*. 2009; 39: 12. Available from: <http://www.nzse.org.nz/docs/Vol.%2039%20January%202009.pdf>

al-Shraideh M, al-Wahadni A, Khasawneh S, al-Shraideh MJ. The mercury burden in waste water released from dental clinics. *SADJ: Journal of the South African Dental Association (Tydskrif van die Suid-Afrikaanse Tandheelkundige Vereniging)*. 2002; 57(6):213-5. Abstract available from: <https://europepmc.org/abstract/med/12229075>

\*Anglen J, Gruninger SE, Chou HN, Weuve J, Turyk ME, Freels S, Stayner LT. Occupational mercury exposure in association with prevalence of multiple sclerosis and tremor among US dentists. *Journal of the American Dental Association*. 2015; 146(9):659-68. Abstract available from: <https://www.sciencedirect.com/science/article/abs/pii/S0002817715006303>

Arenholt-Bindslev D, Larsen AH. Mercury levels and discharge in waste water from dental clinics. *Water, Air, and Soil Pollution*. 1996; 86(1-4):93-9. Abstract available from: <http://link.springer.com/article/10.1007/BF00279147>

Arenholt-Bindslev D. Dental amalgam—environmental aspects. *Advances in Dental Research*. 1992; 6(1):125-30. Abstract available from: <https://journals.sagepub.com/doi/abs/10.1177/08959374920060010501>

Batchu H, Rakowski D, Fan PL, Meyer DM. Evaluating amalgam separators using an international standard. *The Journal of the American Dental Association*. 2006; 137(7):999-1005. Abstract available from: <https://www.sciencedirect.com/science/article/abs/pii/S0002817714649278>

\*Berglund A, Molin M. Mercury levels in plasma and urine after removal of all amalgam restorations: the effect of using rubber dams. *Dental Materials*. 1997 Sep 1;13(5-6):297-304. Abstract available from:

<https://www.sciencedirect.com/science/article/abs/pii/S0109564197800991>

\*Bjørklund G, Hilt B, Dadar M, Lindh U, Aaseth J. Neurotoxic effects of mercury exposure in dental personnel. *Basic & Clinical Pharmacology & Toxicology*. 2019 May;124(5):568-74. Available from:

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/bcpt.13199>

Brune D, Hensten-Pettersen AR, Beltesbrekke H. Exposure to mercury and silver during removal of amalgam restorations. *European Journal of Oral Sciences*. 1980; 88(5):460-3. Abstract available from: <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1600-0722.1980.tb01254.x>

Cabaña-Muñoz ME, Parmigiani-Izquierdo JM, Parmigiani-Cabaña JM, Merino JJ. Safe removal of amalgam fillings in dental clinic: use of synergic nasal filters (active carbon) and phytonaturals. *International Journal of Science and Research*. 2015;4(3):2393. Available from:

<http://www.ijsr.net/archive/v4i3/SUB152554.pdf>

Chou HN, Anglen J. An evaluation of amalgam separators. *ADA Professional Product Review*. 2012; 7(2): 2-7.

Colson DG. A safe protocol for amalgam removal. *Journal of Environmental and Public Health*; 2012. Page 2. doi:10.1155/2012/517391. Available from:

<http://downloads.hindawi.com/journals/jeph/2012/517391.pdf>

\*Duplinsky TG, Cicchetti DV. The health status of dentists exposed to mercury from silver amalgam tooth restorations. *International Journal of Statistics in Medical Research*. 2012 Oct 2;1(1):1-5. Available from:

<http://www.lifescienceglobal.com/pms/index.php/ijsmr/article/download/433/pdf>

\*Echeverria D, Woods JS, Heyer NJ, Rohlman D, Farin FM, Li T, Garabedian CE. The association between a genetic polymorphism of coproporphyrinogen oxidase, dental mercury exposure and neurobehavioral response in humans. *Neurotoxicology and Teratology*. 2006; 28(1):39-48. Available from:

[https://www.researchgate.net/profile/Diane\\_Rohlman/publication/7425926\\_The\\_association\\_between\\_a\\_genetic\\_polymorphism\\_of\\_coproporphyrinogen\\_oxidase\\_dental\\_mercury\\_exposure\\_and\\_neurobehavioral\\_response\\_in\\_humans/links/5c7d1ff9299bf1268d36c30f/The-association-between-a-genetic-polymorphism-of-coproporphyrinogen-oxidase-dental-mercury-exposure-and-neurobehavioral-response-in-humans.pdf](https://www.researchgate.net/profile/Diane_Rohlman/publication/7425926_The_association_between_a_genetic_polymorphism_of_coproporphyrinogen_oxidase_dental_mercury_exposure_and_neurobehavioral_response_in_humans/links/5c7d1ff9299bf1268d36c30f/The-association-between-a-genetic-polymorphism-of-coproporphyrinogen-oxidase-dental-mercury-exposure-and-neurobehavioral-response-in-humans.pdf)

\*El-Badry A, Rezk M, El-Sayed H. Mercury-induced oxidative stress may adversely affect pregnancy outcome among dental staff: a cohort study. *The International Journal of Occupational and Environmental Medicine*. 2018 Jul;9(3):113. Available from:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6466979/>

Fan PL, Batchu H, Chou HN, Gasparac W, Sandrik J, Meyer DM. Laboratory evaluation of amalgam separators. *The Journal of the American Dental Association*. 2002; 133(5):577-89. Abstract available from: <https://www.sciencedirect.com/science/article/abs/pii/S0002817714629718>

Halbach S, Kremers L, Willruth H, Mehl A, Welzl G, Wack FX, Hickel R, Greim H. Systemic transfer of mercury from amalgam fillings before and after cessation of emission. *Environmental Research*. 1998; 77(2):115-23. Abstract available from: <https://www.sciencedirect.com/science/article/pii/S0013935198938294>

Hylander LD, Lindvall A, Uhrberg R, Gahnberg L, Lindh U. Mercury recovery in situ of four different dental amalgam separators. *Science of the Total Environment*. 2006; 366(1):320-36. Abstract available from: <https://www.sciencedirect.com/science/article/pii/S0048969705004961>

\*Kasraei S, Mortazavi H, Vahedi M, Vaziri PB, Assary MJ. Blood mercury level and its determinants among dental practitioners in Hamadan, Iran. *Journal of Dentistry (Tehran, Iran)*. 2010;7(2):55. Available from: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3184749/>

Khwaja MA, Nawaz S, Ali SW. Mercury exposure in the work place and human health: dental amalgam use in dentistry at dental teaching institutions and private dental clinics in selected cities of Pakistan. *Reviews on Environmental Health*. 2016. Abstract available from: <https://www.degruyter.com/view/j/reveh.2016.31.issue-1/reveh-2015-0058/reveh-2015-0058.xml>

\*Langworth S, Sällsten G, Barregård L, Cynkier I, Lind ML, Söderman E. Exposure to mercury vapor and impact on health in the dental profession in Sweden. *Journal of Dental Research*. 1997 Jul;76(7):1397-404. Available from: <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.550.4111&rep=rep1&type=pdf>

Mercola J, Klinghardt D. Mercury toxicity and systemic elimination agents. *Journal of Nutritional & Environmental Medicine*. 2001;11(1):53-62. Available from: <https://pdfs.semanticscholar.org/957a/c002e59df5e69605c3d2126cc53ce84f063b.pdf>.

\*Moen BE, Hollund BE, Riise T. Neurological symptoms among dental assistants: a cross-sectional study. *Journal of Occupational Medicine and Toxicology*. 2008 Dec 1;3(1):10. Available from: <https://link.springer.com/article/10.1186/1745-6673-3-10>

\*Mutter J. Is dental amalgam safe for humans? The opinion of the scientific committee of the European Commission. *Journal of Occupational Medicine and Toxicology*. 2011 Dec 1;6(1):2. Available from: <https://link.springer.com/article/10.1186/1745-6673-6-2>

\*Neghab M, Choobineh A, Zadeh JH, Ghaderi E. Symptoms of intoxication in dentists associated with exposure to low levels of mercury. *Industrial Health*. 2011;49(2):249-54. Available from: [https://www.jstage.jst.go.jp/article/indhealth/49/2/49\\_MS1214/\\_pdf](https://www.jstage.jst.go.jp/article/indhealth/49/2/49_MS1214/_pdf)

Pleva J. Mercury from dental amalgams: exposure and effects. *International Journal of Risk & Safety in Medicine*. 1992; 3(1):1-22. Abstract available from: <https://content.iospress.com/articles/international-journal-of-risk-and-safety-in-medicine/jrs3-1-01>

Rego A, Roley L. In-use barrier integrity of gloves: latex and nitrile superior to vinyl. *American Journal of Infection Control*. 1999; 27(5):405-10. Abstract available from: [http://www.ajicjournal.org/article/S0196-6553\(99\)70006-4/fulltext?refuid=S1538-5442\(01\)70020-X&refissn=0045-9380&mobileUi=0](http://www.ajicjournal.org/article/S0196-6553(99)70006-4/fulltext?refuid=S1538-5442(01)70020-X&refissn=0045-9380&mobileUi=0)

Reinhardt JW, Boyer DB, Svare CW, Frank CW, Cox RD, Gay DD. Exhaled mercury following removal and insertion of amalgam restorations. *The Journal of Prosthetic Dentistry*. 1983;49(5):652-6. Abstract available from: [https://www.thejpd.org/article/0022-3913\(83\)90391-8/pdf](https://www.thejpd.org/article/0022-3913(83)90391-8/pdf)

Reinhardt JW, Chan KC, Schulein TM. Mercury vaporization during amalgam removal. *The Journal of Prosthetic Dentistry*. 1983; 50(1):62-4. Abstract available from: [https://www.thejpd.org/article/0022-3913\(83\)90167-1/pdf](https://www.thejpd.org/article/0022-3913(83)90167-1/pdf)

\*Richardson GM. Inhalation of mercury-contaminated particulate matter by dentists: an overlooked occupational risk. *Human and Ecological Risk Assessment*. 2003; 9(6):1519-1531. Available from: [http://www.keytoxins.com/hgbiblio-files/iaomt/iaomt\\_db/Richardson.2003.HERA\\_9\\_1519-1531.pdf](http://www.keytoxins.com/hgbiblio-files/iaomt/iaomt_db/Richardson.2003.HERA_9_1519-1531.pdf)

\*Ritchie KA, Gilmour WH, Macdonald EB, Burke FJ, McGowan DA, Dale IM, Hammersley R, Hamilton RM, Binnie V, Collington D. Health and neuropsychological functioning of dentists exposed to mercury. *Occupational and Environmental Medicine*. 2002 May 1;59(5):287-93. Available from: <https://oem.bmj.com/content/oemed/59/5/287.full.pdf>

\*Snapp KR, Boyer DB, Peterson LC, Svare CW. The contribution of dental amalgam to mercury in blood. *Journal of Dental Research*. 1989 May;68(5):780-5. Available from: [http://www.drperlmutter.com/wp-content/uploads/2014/05/IMT\\_Snapp\\_1989\\_J\\_Dent\\_Res\\_REMOVAL.pdf](http://www.drperlmutter.com/wp-content/uploads/2014/05/IMT_Snapp_1989_J_Dent_Res_REMOVAL.pdf)

Stejskal V, Hudecek R, Stejskal J, Sterzl I. Diagnosis and treatment of metal-induced side-effects. *Neuro Endocrinol Lett*. 2006 Dec;27(Suppl 1):7-16. Available from <http://www.melisa.org/pdf/Metal-induced-side-effects.pdf>

Stone ME, Cohen ME, Berry DL, Ragain JC. Design and evaluation of a filter-based chairside amalgam separation system. *Science of the Total Environment*. 2008; 396(1):28-33. Abstract available from:

<https://www.sciencedirect.com/science/article/pii/S0048969708001940>

\*Tezel HÜ, Ertas OS, Ozata FE, Erakin C, Kayali A. Blood mercury levels of dental students and dentists at a dental school. *British Dental Journal*. 2001 Oct;191(8):449-52. Available from: <https://www.nature.com/articles/4801205>

Vandeven J, McGinnis S. An assessment of mercury in the form of amalgam in dental wastewater in the United States. *Water, Air and Soil Pollution*. 2005; 164: 349-366. DCN 0469. Abstract available from: <https://link.springer.com/article/10.1007/s11270-005-4008-1>

\*Warwick D, Young M, Palmer J, Ermel RW. Mercury vapor volatilization from particulate generated from dental amalgam removal with a high-speed dental drill—a significant source of exposure. *Journal of Occupational Medicine and Toxicology*. 2019;14(1):22. Available from: <https://occup-med.biomedcentral.com/articles/10.1186/s12995-019-0240-2>

\*Warwick R, O Connor A, Lamey B. Mercury vapour exposure during dental student training in amalgam removal. *J Occup Med Toxicol*. 2013; 8(1):27. Available from: <https://occup-med.biomedcentral.com/articles/10.1186/1745-6673-8-27>

*\*Also noted in References and Resources Section for Safe Amalgam Removal Online Learning Video.*