

Submission from Japan on non-mercury alternatives to dental amalgam

The Conference of the Parties to the Minamata Convention (COP) requested the Secretariat to collect from Parties and others information pursuant to paragraph 7, Article 4 of the Convention, i.e. information including that related to the availability, technical and economic feasibility and environmental and health risks and benefits of the non-mercury alternatives to the product.

In Japan, dental treatment with dental amalgam has been no longer covered by health insurance since the revision of the medical payment system in April 2016. Mercury-free alternatives for dental restoration have been listed as those covered by health insurance.

Dental composite resins for restoration

Materials primarily composed of resin, inorganic filler or resin and composite filler. They are polymerized chemically by mixing or by external energy. They are used for filling of a tooth cavity or repair of artificial crowns.

Dental filling glass polyalkenoate cement

A type of cement that cures by a reaction between aluminosilicate glass powder and alkenoic acid aqueous solution or between a mixture of aluminosilicate glass-polyacid powder and water or organic acid aqueous solution. It is used for tooth filling and restoration.

Dental filling resin-modified glass-polyalkenoate cement

A dental filling material composed of a resin component and glass polyalkenoate cement for dental filling material. It may be used in the repair of artificial crowns.

Dental filling acrylic resin

A material made primarily of acrylic ester monomer and polymer. It is polymerized chemically by mixing or by external energy. It is mainly used for filling of a tooth cavity or repair of artificial crowns.

English edition of Japanese Medical Device Nomenclature (JMDN) and the definitions is arranged. These are provided for the convenience of users unfamiliar with the Japanese language. These contents are the latest and information except here will be aligned with these contents shortly. When and if any discrepancy arises

between the Japanese original and its English translation, the former shall prevail.
(As of Sep. 2019)

Reference

Pharmaceuticals and Medical Devices Agency. Criteria for Medical Devices

https://www.std.pmda.go.jp/stdDB/index_en.html

(2020/8/6 access)

https://www.std.pmda.go.jp/stdDB/Data_en/InfData/Infetc/JMDN_en.pdf

(2020/8/13 access)