

Metal and Methyl Methacrylate Allergy and Its Screening Methods Associated with Dental Practice

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Abstract

Patch Test Products DS-1000 Dental Screening of Merck pharmaceutical factory were used as allergens testing kits, which were stuck on the backs of 42 dental technicians. The positive reactions will show eczema on skin after 48 to 72 hours. Although National Labor Committee has completed the study on the occupational diseases experienced by the dental technicians, it was still not enough as far as the hygiene aspect of the dental firms was concerned. We hope to engage in this area in order to improve the working environment of the dental firms.

More than 50.0% of positive reactions are observed after 48 hours for Potassium dichromate, Mercury, Cobalt chloride, Goldsodiumthiosulphate, Nickel sulfate, Copper sulfate, Palladium chloride and Tin, showing that metal-cause allergy is a popular phenomena. But no allergic reaction was observed for Methyl methacrylate (MMA). The reason might be the relatively shorter contact time during blending, polymerization, pressing and forming processes,. This research shows that dental firms should improve their ventilation and hooding systems in order to reduce the allergic sources.

Key words : Metal, Methyl methacrylate, Allergy, Dental technicians, Patch test

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