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The relationship between burning mouth syndrome and dental materials

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Burning mouth syndrome (BMS) is an oral pathological condition when patients complain about pain at least 4-6 months a year in the absence of any lesions. The pain may be accompanied by a burning sensation on the oral mucosa. The main scope of this study is to find if there any connections between BMS and some dental materials (e.g. alloys, acrylate, etc.) from dental restorations, dental crowns, dental implants and other dental prostheses. The sample consisted of 85 patients with BMS who also had at least one crown, restoration or prosthesis. Another 19 patients were part of a control group. All the patients were tested for allergic reactions using dental screening kit (chemo-technique diagnostics, Sweden) recommended by international contact dermatitis research group (ICDRG). The 31 haptens contained in the kit were applied using special patches (chemo-technique diagnostics IQ Ultra chambers) attached to the same region of the posterior thorax skin. The results show that almost 52% patients from the main sample exposed positive results for the allergens included in the kit compared with only 15% from the control group. Women involved in the study exposed more allergic reactions (39%) than men (13%). As conclusion, it seems like there is a link between BMS and dental restoration, crowns or prostheses, which depends on the allergic response to the material from which they are made from.

Biography

Elena Funieru is DMD and pursuing PhD at University Politehnica of Bucharest and Carol Davila University of Medicine and Pharmacy in Romania. She studies the effect of dental alloys and other dental materials on oral mucosa and the link between them and oral lichen planus. She has published 9 papers in reputed journals.

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