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## MIH AND PEIR: THEIR EFFECT ON MINERALIZATION AND TREATMENT OPTIONS

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**M**olar Incisor Hypomineralization (MIH) is caused by disturbance during the initial calcification and/or maturation of the enamel of the affected teeth. It happens during the first two years after birth, for permanent molars or during the third trimester of pregnancy for primary molars. The characteristic features of MIH: opaque stains that vary in tone between white, yellow and brown, post-eruptive enamel breakdown, atypical restorations and/or extensive caries with opacities at the margins, sensitivity, tenderness and difficulty to treat. In Pre-Eruptive Intracoronal Resorption (PEIR), currently of unknown aetiology- the dentine underlying the enamel crown of still unerupted teeth is progressively resorbed and replaced by soft granulomatous tissue leaving only a thin layer of unsupported enamel. The fragile enamel in such teeth fractures soon after eruption exposing the dental pulp to oral pathogens. In the absence of early intervention, the extent of destruction of the mineralized tissues resulting from PEIR, necessitates extraction in some 50% of affected teeth. This presentation will describe the effect of MIH and PEIR on enamel mineralization and the treatment options with long follow-up periods.

### Biography

Uri Zilberman received his DMD degree in 1983 from the Dental Faculty, Hebrew University, Jerusalem, and his PhD degree in 2000 in Basic Science, Dental Anthropology. He specialized in Pediatric Dentistry from 1990 and has been treating children and adolescents for the last 30 years. He is the Head of the Pediatric Dental Unit at Barzilai Medical University Center. He is the Senior Lecturer at the Faculty of Health Science, Ben-Gurion University of the Negev, Beersheba and at the Dental Faculty, Hebrew University, Jerusalem. He teaches courses on Dental Morphology for first year Dental students and Pathophysiology of the Oral Cavity for fourth year Pharmacology students. He has published more than 50 research papers and chapters in Pediatric Dentistry and Dental Anthropology. His main interests are new dental procedures and devices for pediatric dentistry, hereditary disorders and their effect on tooth development, and the use of biomimetic materials in pediatric dentistry, like glass-ionomers cements. He has developed new dental procedures and a patented new dental device for pediatric dentistry.

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