

Efficacy of two different treatment modalities on masking white spot lesions in children with molar incisor hypo-mineralization**Ghada A ElBaz** and **Shaimaa M Mahfouz**

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Purpose: This study aimed to assess and compare the effectiveness of resin infiltration and fluoride varnish in masking white spot lesions of central incisors in children with molar incisor hypo-mineralization (MIH) clinically and radio-graphically.

Methods: Twenty children aged from 9 to 14 years with bilateral maxillary central incisors with MIH, according to Judgment criteria of European Academy of Pediatric Dentistry (EAPD), were included in this study. Children were divided into two groups, group I was treated with resin infiltration (ICON) while group II was treated with fluoride varnish (Fluoro- protector). All patients received pre-operative, immediately after treatment, 1 week and 1 month after treatment a digital standardized photograph and peri-apical radiography. All photographs and peri-apical radiographs were analyzed to calculate the color and gray level (GL) differences between the sound enamel and white spot lesions.

Results: A comparison between the two groups showed a statistically significant lower color difference mean between the sound and treated white spots enamel in group I than in group II in all evaluation periods. Moreover, a comparison between the GL mean values of both groups showed a statistically significant higher GL mean values after resin infiltrations in group I than in group II after fluoride application in all evaluation periods.

Conclusion: Resin infiltration (ICON) is dramatically better than fluoride varnish in the masking of white spot lesions in children with (MIH). Resin infiltration technique allows a minimally invasive treatment in a single appointment making it beneficial for school aged patients.

Biography

Dr.Ghada ElBaz has completed her PhD in 2004 from Faculty Of Dentistry Suez Canal University and post doctoral studies from the same University. She is the head of Pediatric dentistry department in Suez Canal University. She has published around 20 papers in national and international journals.

Dr. Shaimaa Mahfouz has completed her PhD in 2015 from Faculty Of Dentistry Suez Canal University and post doctoral studies from the same University. She is a Lecturer at Pediatric dentistry department in Suez Canal University. She has published around 3 papers in national journals.

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