

Resin Infiltration Technique

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Early carious lesion in enamel is initially seen as a white spot lesion and is characterized by subsurface porosity of enamel caused by imbalance between demineralization and remineralization process. It becomes whiter as compared to sound enamel when dried with air. White spot lesions may present an aesthetic problem along with the progression of demineralization process. These lesions can be the result of plaque accumulation near the gingival line and around orthodontic brackets.

Until now, there are many protocols for management of white spot lesions like complex of casein phosphopeptides and amorphous calcium phosphate, microabrasion, argon-laser and resin infiltrate. Resin infiltration technique is a minimal invasive technique for mask the white spot lesions. Icon is the product name of resin infiltrate produced by DMG, Hamburg, Germany.

Resin infiltration technique described into three steps:

1. After rubber dam isolation, application of Icon-Etch (15% HCL) on the lesions for 2 minutes. Etching procedure on the lesions exposes the micro porosities, permitting the penetration of low viscosity resin by capillary force. Rinsing for 30 seconds to eliminate all the etchant.
2. Application of Icon-Dry (99% Ethanol) for 30 seconds to eliminate all the water of the pores of the lesions. This step is very important for good adhesion of resin with the lesion.
3. Application of Icon-Infiltrate (Tetraethylene glycol dimethacrylate, Additives and Initiators) for 3 minutes on the lesions. Excess resin is removed with micro brush and dental floss and then light cure for 40 seconds. A second layer is applied for additional 1 minute and then light cure for 40 seconds.

Management of white spot lesions with resin infiltration technique (DMG, Hamburg, Germany) is very quick, easy and painless. This technique is also well accepted by the patient and practitioner.

Source of Support

Nil.

Conflict of Interest

None.

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