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Resin infiltration for the management of initial caries lesion

Abstract

Dental caries is the most common oral disease world-wide. The first signs of enamel demineralization caused by **cariogenic process** are the initial caries lesions which are referred to as white spot lesions which can form as early as two weeks following plaque accumulation. These lesions manifest as white opaque discoloration which compromises the esthetics and could result in cavitation in patients who are at high caries risk. The first line of treatment of Initial caries lesions is remineralization with fluoride containing topical agents which helps to arrest the activity of the lesion. However, the esthetic resolution with fluoride may not be guaranteed. Other treatment options such as enamel microabrasion and veneers improves the esthetics. However, these treatment options are less conservative and may include the removal of tooth structure. Caries resin infiltration is a microinvasive treatment in which the initial caries lesion is perfused with a synthetic resin which arrest the activity of the caries lesion and enhances the appearance of these lesions.

Keywords:

Initial caries, Resin, Infiltration.

Biography:

Dr. Tamer Theodory earned a D.D.S. from the School of Dentistry, University of Jordan. Dr. Theodory worked in private practice and earned a certificate in Oral Implantology. He joined the Operative Dentistry graduate program at the University of Iowa College of Dentistry and Dental Clinics, where he earned a degree in Master of Science, Major in Oral Science and a Certificate in Operative Dentistry. Dr. Theodory has been serving as faculty member at the University of New England College of Dental Medicine since 2018.

Tamer Theodory,
University of New England, USA

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