Treatment of white spot lesion with infiltrating agent: Case Report

Abstract

White spot lesions are related to the loss of mineral by the enamel, causing structural alterations and the compromise of its esthetics. Ingestion of excessive amounts of fluoride may result in enamel defects known as dental fluorosis. It is a process of hypomineralization of the dental enamel that occurs during the period of its development and manifests itself clinically through white patches. In more severe cases, dark spots and cavitation may also be observed. In this way, microabrasion has been accepted as an effective technique to remove superficial spots and irregularities of the dental enamel, being considered a conservative procedure, but with some degree of tooth enamel wear. In 2009, a technological novelty appeared in the market in order to treat white spot lesions in a conservative way, a highly fluid, light-curing, low-viscosity resin known as Icon® (DMG, Hamburg, Germany). This product is able to disguise white spots by altering the optical characteristics of the enamel, without the wear of dental structure, and thus promising for the treatment of dental fluorosis. The aim of this study was to present, by means of a clinical case, the treatment of grade 3 white spot lesion, according to Dean's index, in dental enamel of the buccal face of all teeth, caused by fluorosis, with an approach using the resinous infiltrating agent Icon. The result was quite satisfactory, since a significant improvement in the aesthetics of the smile and satisfaction on the part of the patient was observed.

Descriptors: Dental fluorosis. Tooth Discoloration. Dental Esthetics. Conservative Treatment.

Silva LF, Dobranszki NPDC. Tratamento de lesão de mancha branca com agente infiltrante: Relato de caso. R Odontol Planal Cent. 2019 Jan-Jun;9(1):29-34.