Clinical conduct for restoration of non-carious cervical lesions – Case report

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Non-carious cervical lesions (NCCL) are characterized by loss of dental structure near the cementoenamel junction, which may extend to the coronary and radicular portion, and by an association with dentin hypersensitivity and gingival recession. NCCLs are not related to caries and their etiology is multifactorial, including both endogenous and exogenous factors related to the processes of bioerosion, tension and friction. NCCLs mainly affect the vestibular surface of the molars and premolars and are frequently observed in clinical practice. This report aims to describe the case of a 45-year-old male patient identified as ALMM and treated in the integrated clinic of the Faculty of Dentistry of Universidade Federal Fluminense with a main complaint of dental wear.

Clinical examination revealed NCCL and gingival recession in elements 11, 12, 13, 14, 15, 16, 33, 34 and 35, with no complaint of dentin hypersensitivity. Rehabilitation treatment through NCCL restorations using composite resin was proposed, starting with anterior teeth, then rehabilitation with removable partial dentures was performed. The patient will be followed up and there will be a thorough investigation to control the etiological factors involved, thus enabling treatment success.

This case was realized at UFF (Universidade Federal Fluminense) with the following Team:

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Fig. 12: Active application of ONE COAT 7 UNIVERSAL adhesive on dentin and enamel

Fig. 13: Active application of ONE COAT 7 UNIVERSAL adhesive on dentin and enamel

Fig. 14: Active application of ONE COAT 7 UNIVERSAL adhesive on dentin and enamel

Fig. 15: Photopolymerization of the adhesive

Fig. 16: Measuring the depth of the lesion. Lesions up to 2 mm deep can be restored with a single increment

Fig. 17: Composite resin is selected (BRILLANT EverGlow – COLTENE)

Fig. 18: Application of composite resin

Fig. 19: Application of composite resin

Fig. 20: Application of composite resin

Fig. 21: Application of composite resin

Fig. 22: Removal of excess material using No. 12 scalpel blade

Fig. 23: Appearance after removal of absolute isolation

Fig. 24: Polishing of the cervical margin using flame tips. (DIATECH System – COLTENE)

Fig. 25: Initial finish with blue spiral (DIATECH Shapeguard – COLTENE)

Fig. 26: Initial finish with blue spiral (DIATECH Shapeguard – COLTENE)

Fig. 27: Final polishing with blue spiral (DIATECH Shapeguard COLTENE)