

Preclinical dentistry III.

1 Definujte zápatí – název prezentace nebo pracoviště



Proximal surface of frontal teeth (incisors and canines) without loss of incisal edge. It originates usually below the contact point.



Diagnosis and clinical symptoms

 Visual diagnosis – good illumination or transillumination. Dark spot can be seen.

- Early diagnosis is quite easy.





- Composite filling material is a material of the first choice
- Glassionomer when oral hygiene or control of dry field is not optimal.

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Access to the cavity

- Through the enamel from the oral side
- If the carious lesion is spreading towards vestibular side, vestibular access is
 - acceptable
- Removal of old filling
- Separation of teeth wedges
- Removal od hyperplastic gingiva



Access



Round bur or diamond, from oral side, the caries lesion on proximal wall must be reached











Cavosurface margin

- Cavity is limited on carious lesion only
- Margins must be beveled









Retention

- Margins must be beveled micromechanical retention
- Within the bevel (retentive border shallow groove around the lesion) the aprismatic enamel is removed, the prismatic structure is exposed. Depth 0,5 mm. Angel appr. 45°.

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Prismatic structure after the removalof aprismatic enamel and acid etching – retentive pattern periprismatic intraprismatic









Aprismatic enamel after acid etching



Good isolation with the rubberdam



Acid etching of enamel and dentin: Enamel 20 – 30 s Dentin 10 s



Bonding



Sequence of operation – after choosing the colour – the enamel is cleaning



Preparation



Acid etching – protection of the other tooth tooth



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Matrix (transparent polyester strip) and wedge, priming and bonding



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Application of the composite – palatal layer first



Incremental technique



Before finishing, the wedge can remain in situ – separation of teeth



Layering of the composite

- Palatal wall (matrix in situ) enamel shade
- Dentin shade
- Enamel shade

Matrix has been removed



Finishing: final shape with fine and extrafine diamond bur, flexible discs



Polishing – rubber instruments, fine discs



Rubber cups, brushes

Finished filling



3 rd class restoration – 20 years ago











Layering depends on size and location of the defect – dentin and enamel shades



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Defects on proximal surfaces premolars and molars with loss of part or complete incisal edge

Dental caries Trauma



Cavosurface margin

Preparation is limited on the defect



The enamel must be beveled





MUNIPrinciple of the layeringMEDof the composite material


The matrix is necessary:

Transparent polyester strip + wooden wedge For location od the palatal wall silicone matrix can be used

Silicone matrix

 Is a simple impression of silicone impression material after building of the shape of the future restoration on the model or in oral cavity











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Now the transparent strip and wedge is necessary again







Finishing and polishing

