MUNI MED

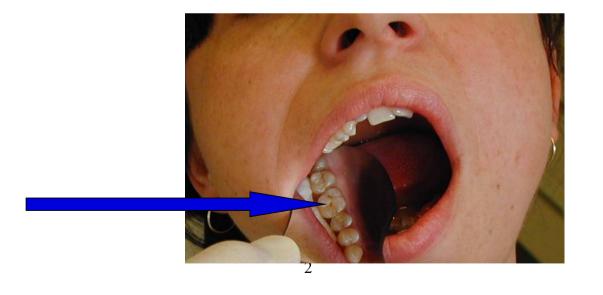
Preclinical dentistry I.

Class I.

1 Definujte zápatí – název prezentace nebo pracoviště

– Class I.

Pit and fissure caries



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– Class II.

Proximal surfaces in premolars and molars

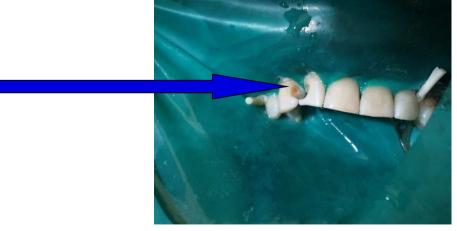


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– Class III.

Proximal surfaces of incisors and canines without lost any part if incisal edge

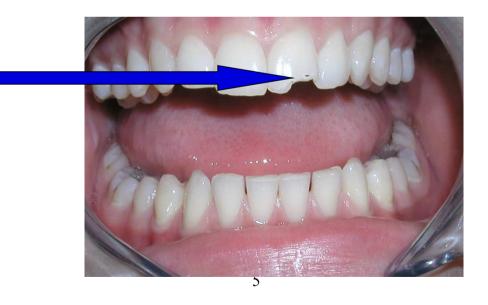


ME

Class IV.

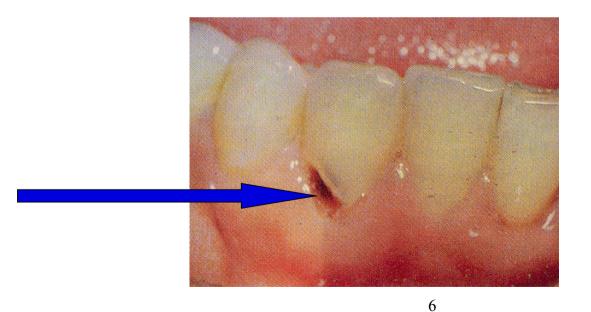
Proximal surfaces of incisors and canines with

lost an incisal ridge



ME

- Class V. cervical lesions



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Preparation of cavities

Access to the cavity	
Outlines – cavosurface margin (exter	ntion for
prevention)	
Principles of retention	
Principles of resistance	
Excavation of carious dentin	
Preparation of borders – finishing	
Control 7	MUNI Med Ma

Protection of dentin wound

- Dentin wound should be covered protection of dental pulp against irritation
- Physical
- -thermal
- -osmotic
- Chemical

Combination

ME

Protection of dentin wound

Isolation Filling (small cavities)

Base (moderate – large cavities- depth 2mm and more approx.)

Adhesive systems (composite materials)

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Filling

 Filling replaces lost hard dental tissue anatomically and functionally

- Always different properties in comparison to hard dental tissues.



Preparation of the cavity I.st class acc. to Black

- Cavities in fissures and pits
- (Occlusal surfaces of premolars and molars and in f. caeca)

- F. Caeca: buccal surfaces of lower molars,
- Palatal surfaces of lower molars, palatal surfaces of upper incisors (mostly lateral)

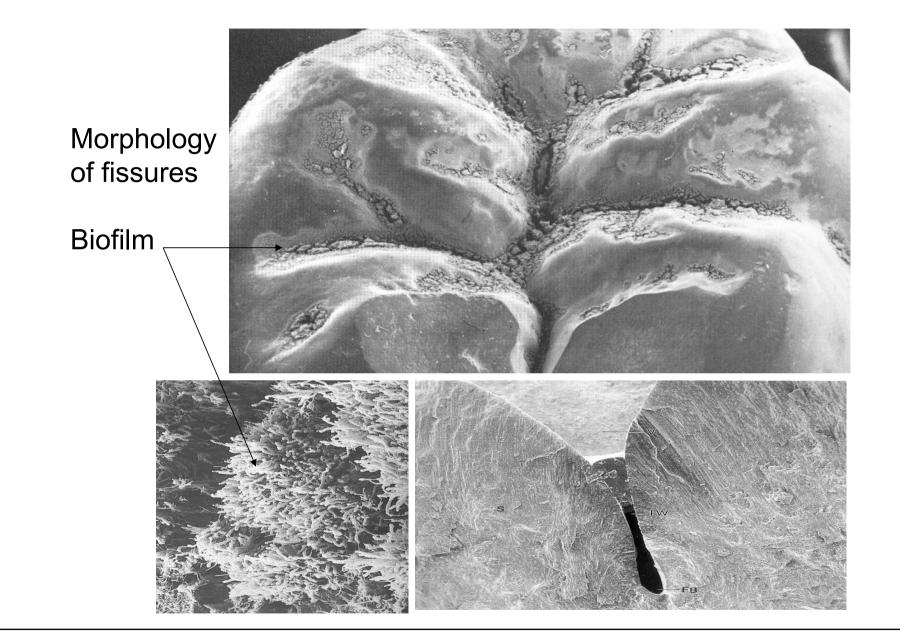


All pit and fissure restorations (fillings)

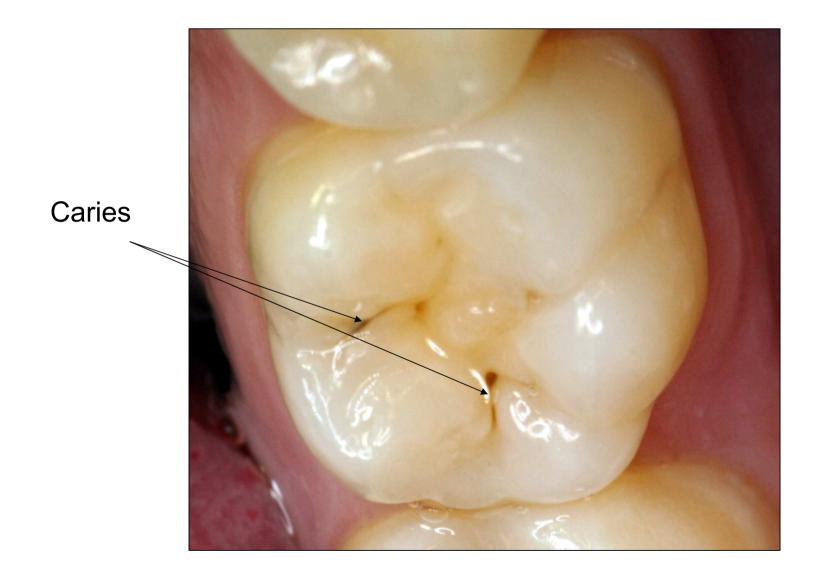
They are assigned in to three groups. R. on <u>occlusal surface of premolars and molars</u>

R. in foramina caeca – usually on <u>occlusal two thirds</u> of the facial and lingual surfaces of molars.

R.on lingual surface of maxillary incisors.



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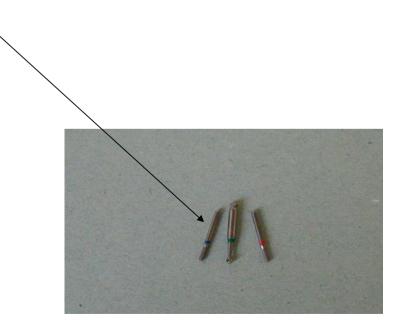


MUNI MED 📲 Materials: Amalgam, composite. Amalgam: Pertinent material qualities and propeties Strength Longevity Easy of use Clinically proven sucess

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Access to the cavity

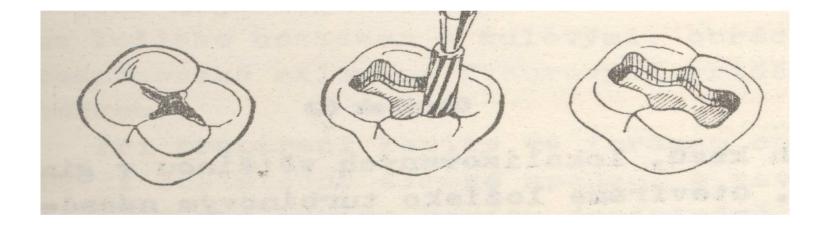
From the occlusal surface using the fissure bur (or diamond burs, see below).



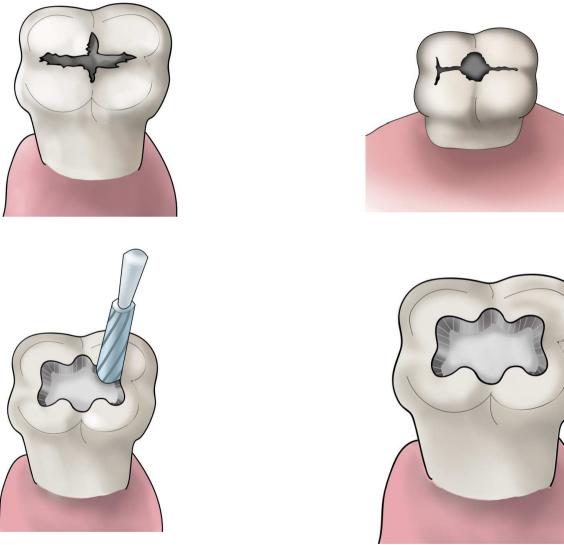
ME

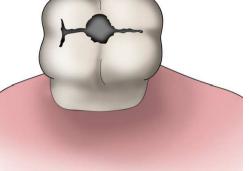
Cavosurface margin

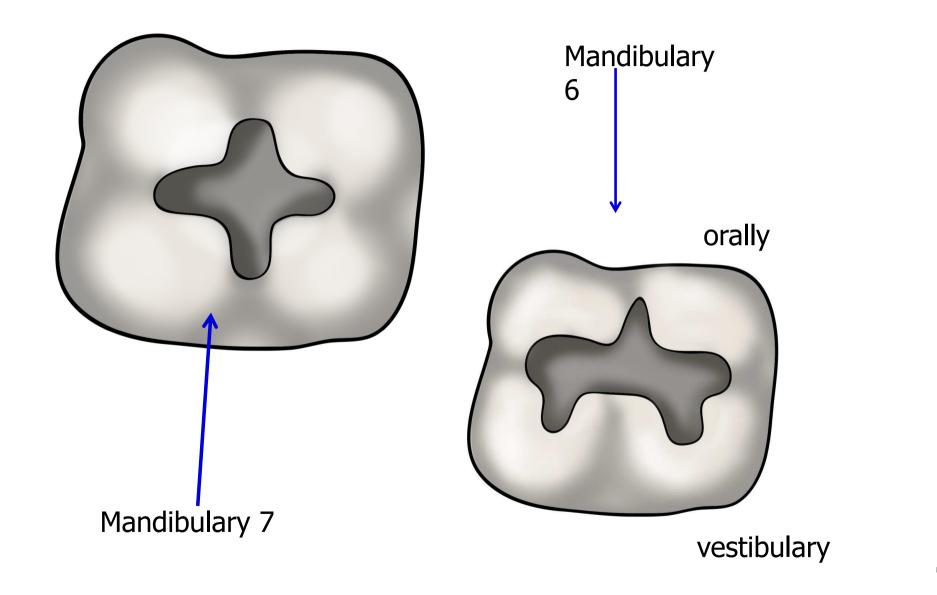
 Ideal outline includes all occlusal pits and fissures. If transvers ridge (1st lower premolar) or oblique ridge (1st and 2nd upper molar) are not affected, it is strongly recommended not to prepare them.

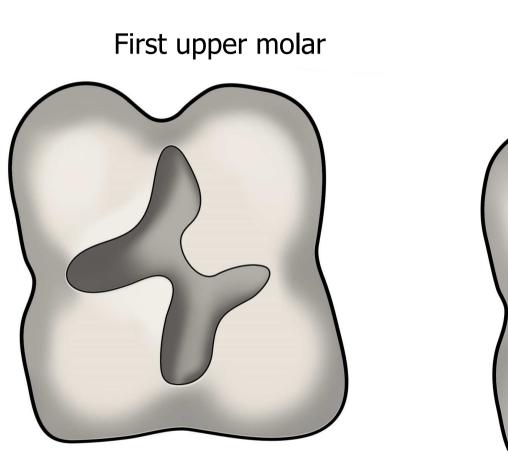


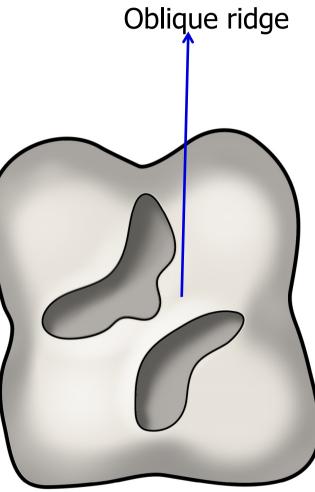
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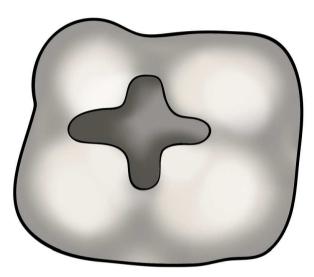


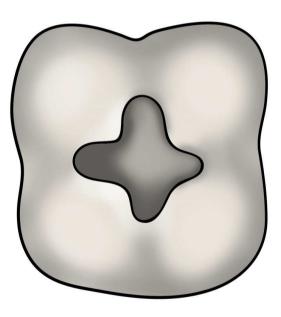






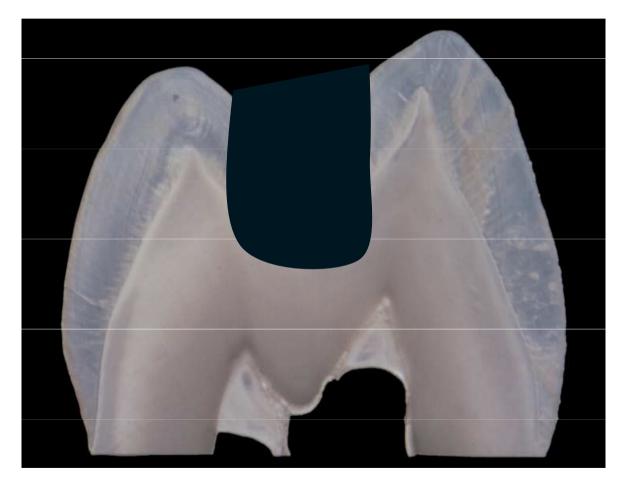
Third molars - variable





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1/2 distance between the botom of the fissure and the cusp

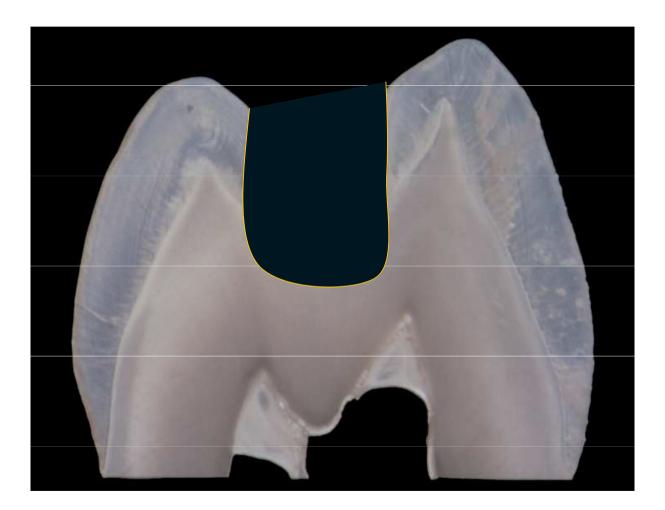


Retention

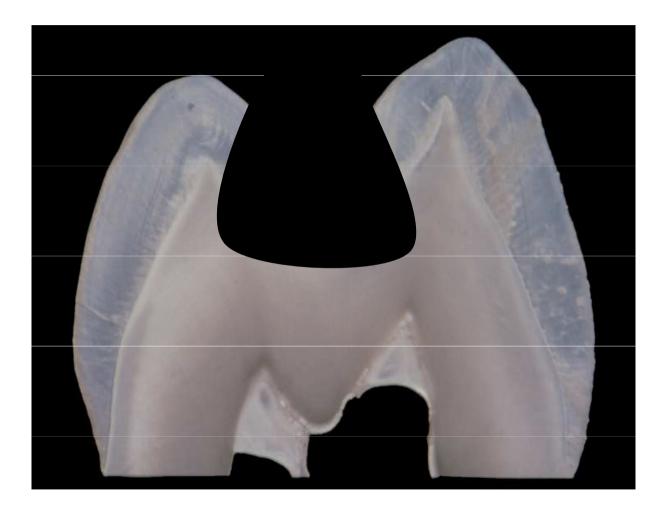
- Box - undercut (1,5 - 2 mm deep).



Box



Undercut



Resistance

Depth 1,5 – 2 mm

The enamel is always supported with dentin

The cavosurface margin till 1/2 distance of the

bottom of the fissure and the cusp

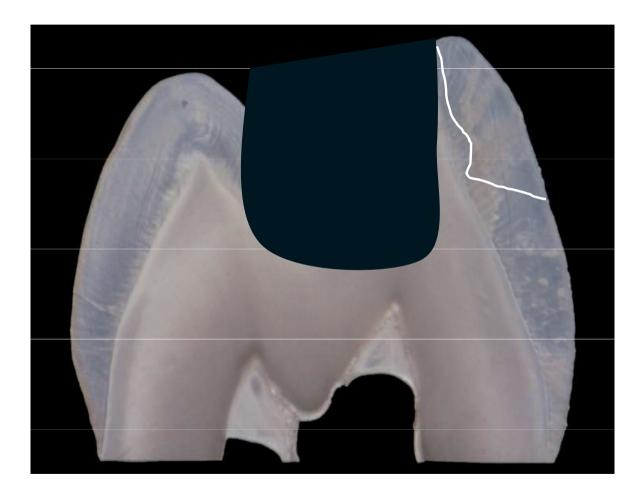
No sharp edges

Resistance

- Proximal ridges must not be undermined!

28 Definujte zápatí – název prezentace nebo pracoviště

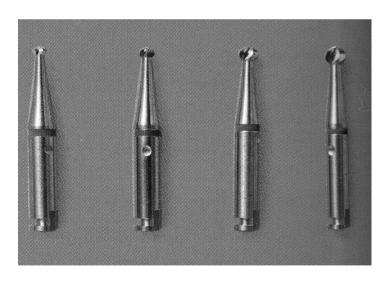




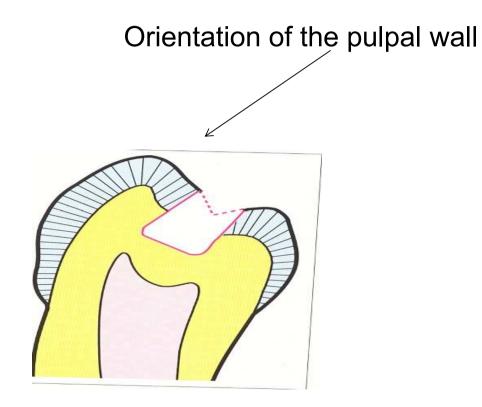
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Excavation of carious dentin

- Round burs : 3000/min
- Excavators



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Fine diamonds





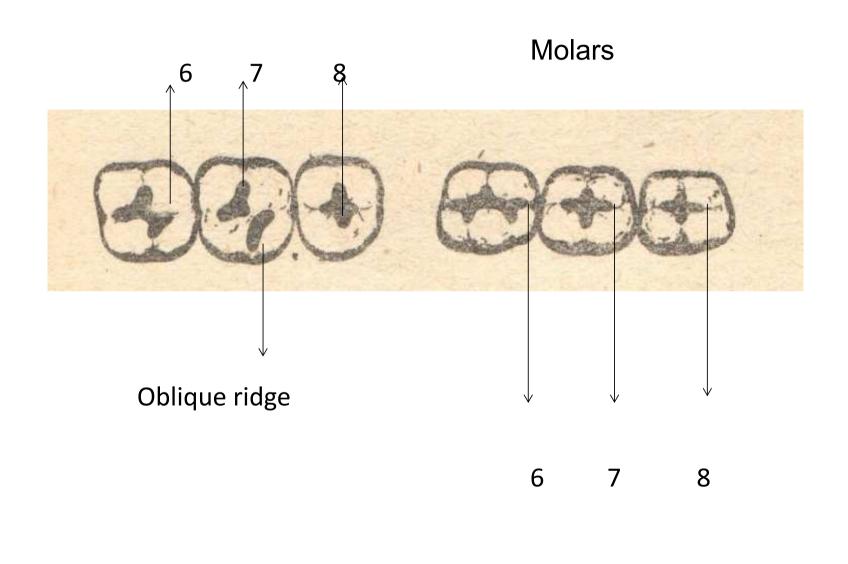
Final check

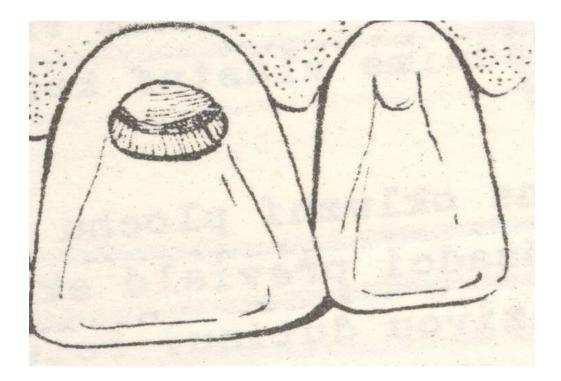
Good illumination, dry field, magnification.

Direct and /or indirect view

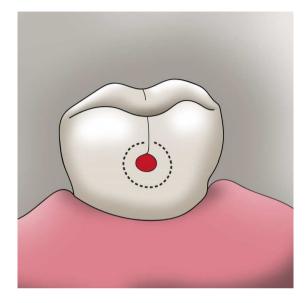
Probe

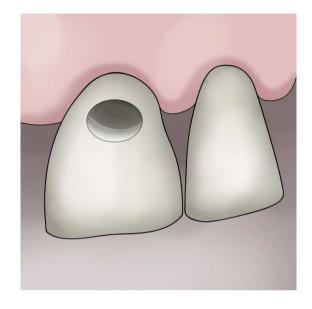
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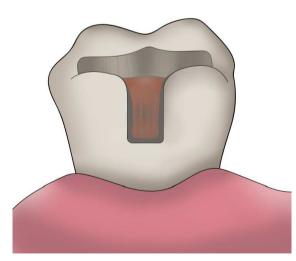




Foramen caecum: Preparation is limited on carious lesion The bottom is located in dentin Undercuts Finishing of cavity borders







If the enamel is undermined occlusally – extention on occlusal surface

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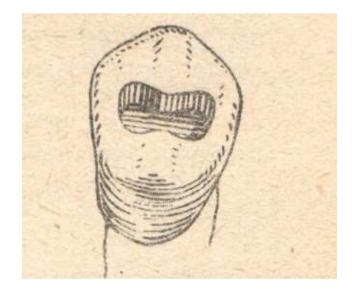


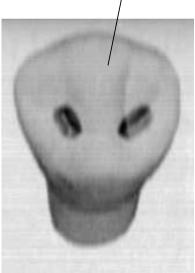
Preparation with preservation of the transverse ridge

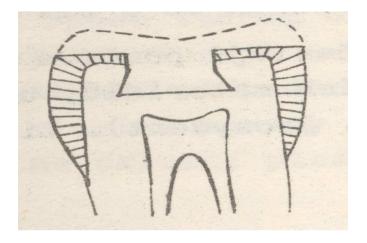
Premolars

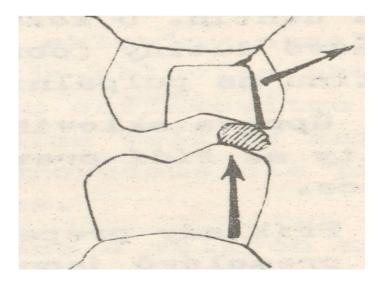
Crista transversa (transvers ridge) Lower P1

¶∦:



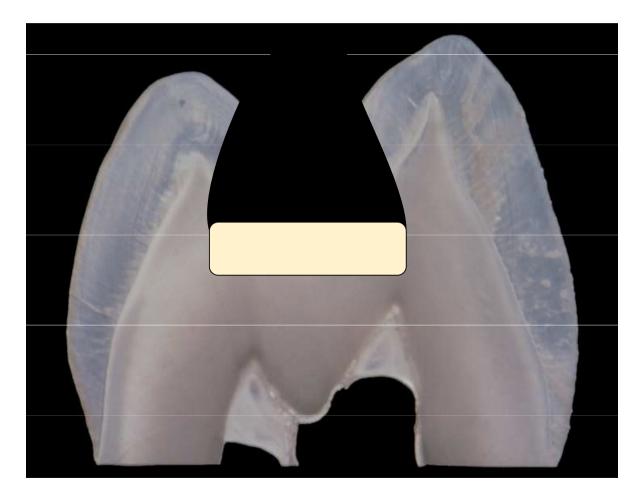






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Base is made usually of zinkoxidphosphate cement It is placed only on pulpal wall



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