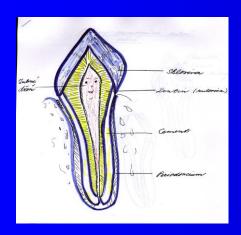
Class V.

Characteristic

- Cervical defects
- carious
- non carious lesions



Anatomical x Clinical crown

Anatomical x clinical crown

Anatomical crown

- cementum- enamel junction
- Clinical crown gingival border

anatomical x clinical crown



Anatomical crown
The border is cemento-enamel
junction

Clinical crown
The border is gingival border



Cervical area

- Caries danger area
- Gingiva possibility of its injury,
 bleeding, inflammation
- Flow of the sulcular liquid
 - Difficulties with the maintenance of the dry field
- Specific ordering of the hard dental tissues



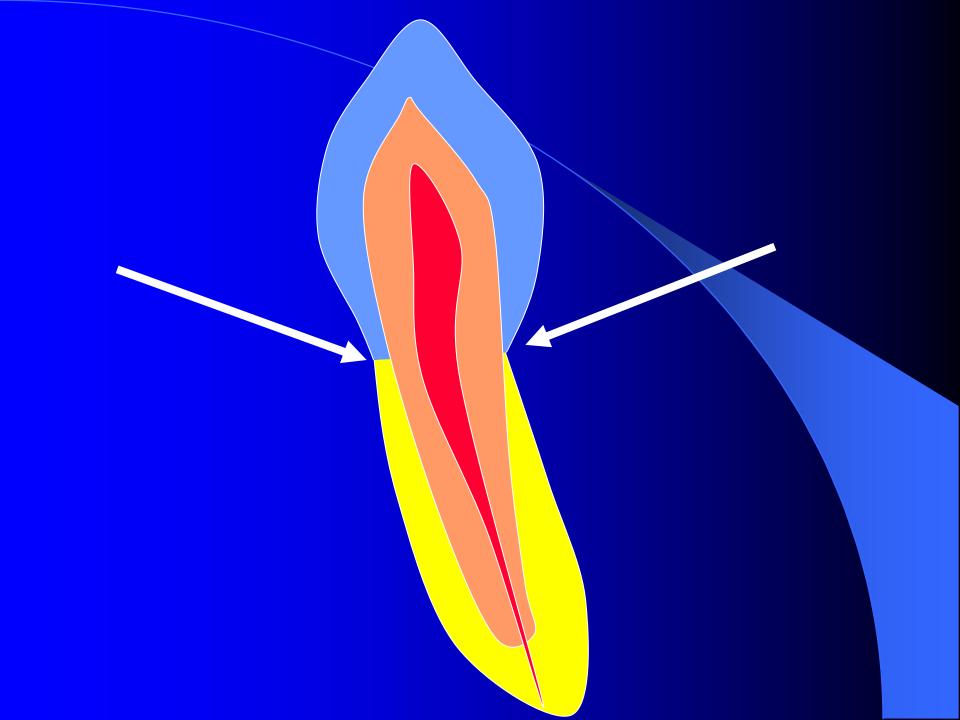
Hard dental tissues in cervical area

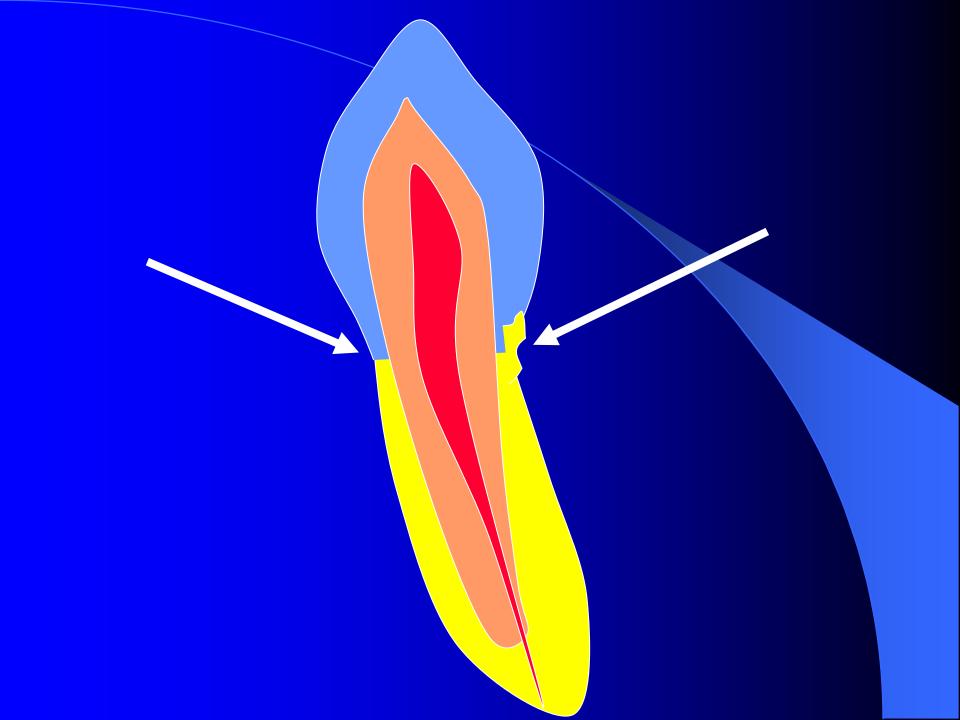


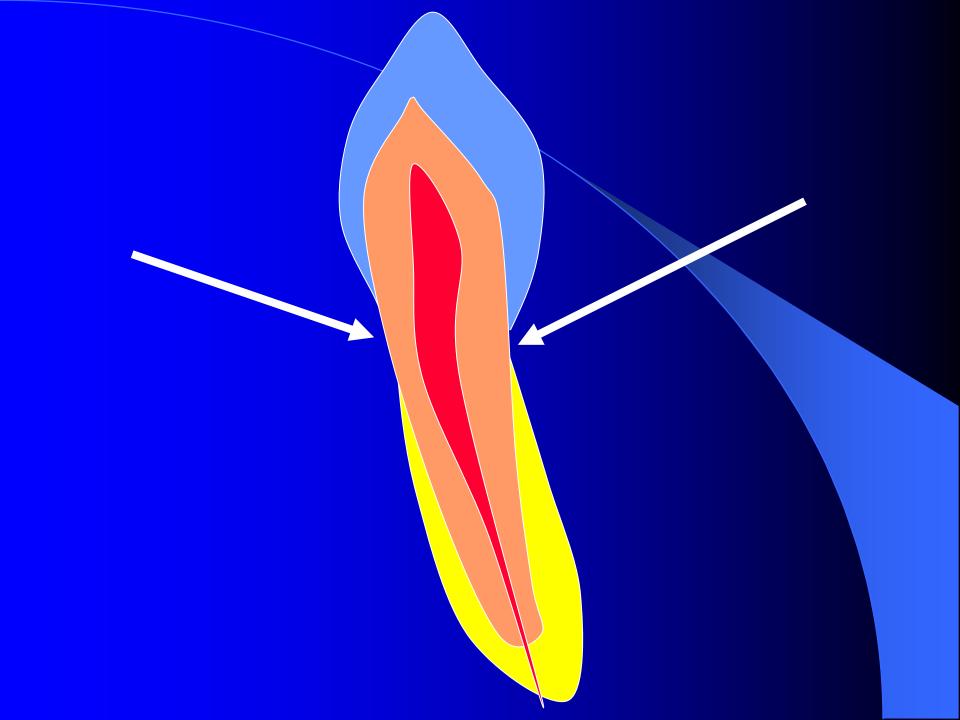
On the surface can be

Enamel
Cementum
Dentin

Risk of opening of the pulp chamber









Access to the cavity

- Elimination od the undermined enamel
- Burs or diamonds (pear), inverted cone bur
- Separation of the gingiva—temporary filling
- Ablation of ingrown gingiva surgically



V.Class Amalgam

Posterior area

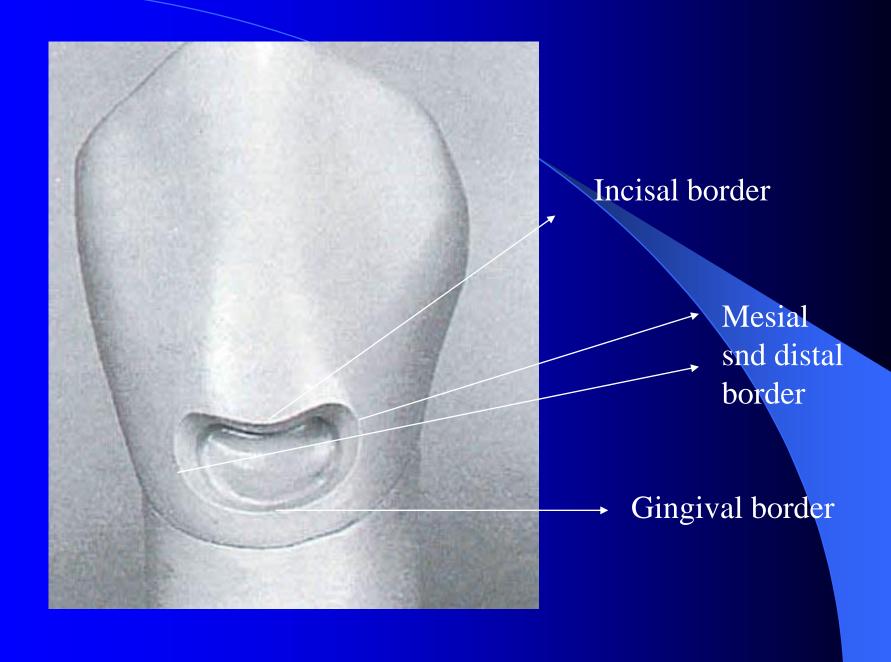


Cavosurface margin

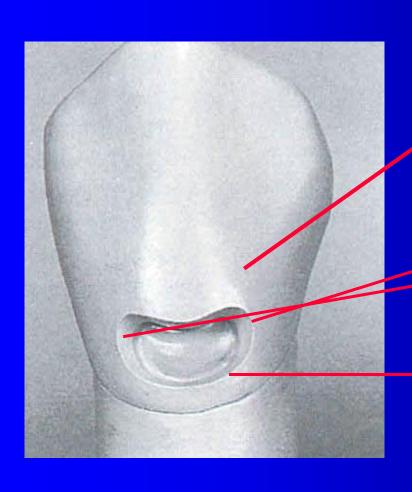
We do not follow Black's rules exactly!

Gingival: axial dephth of 0,5 mm inside the DEJ.

Extention of the preparation incisally, gingivally, mesially and distally untill the cavosurface margins are positioned in sound dental structure. Total dephth: 1 – 1.25 mm. If on root surface -0,75 mm





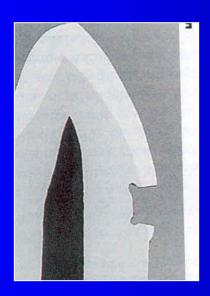


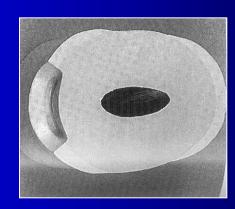
Occlusal margin Below the max. convexity

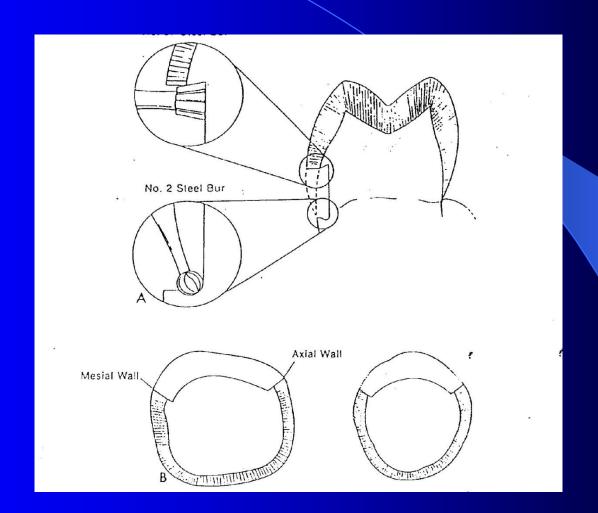
Mesial and distal borders – axial walls

Gingival border below the gingiva 0,5 mm

• Box 0.75 - 1.25 mm deep, undercuts,







Excavation of carious dentin

Round bur

Excavator

Finishing of cavity margin

• Fine diamond

Filling

 Portion of amalgam are condensed using a condensor and finished using a spatula or a carver.

Class V. Composite

> Aesthetic reasons

It is necessary: good oral hygiene

margin mostly in enamel





Contraindication of composites

- Bad oral hygiene
- Subgingival cavities
- > Root caries (outside of enamel)





Access to the cavity

- Elimination od the undermined enamel
- Burs or diamonds

- Separation of the gingiva—temporary filling
- Ablation of ingrown gingiva surgically

Cavosurface margin

Cavity is limited on the caries defect only – no extention!!!! The depth usually 1 mm

The gingival wall must not be subgingivally.

Micromechanical retention

Enamel: bevel - the angle 45°

Prepare the retentive border (shallow groove)

Cementum: only finishing with the fine diamond bur.

Bevel and retentive border (shallow groove):

- removing of the aprismatic enamel
- better condition for micromechanical retention
- better aesthetics

Acid etching (phosphoric acid): 10 s dentin, 30 s enamel

Washing 30s
Priming,
Bonding
Light curing 10 – 20 s.

Filling

Spatula

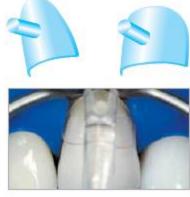
Matrix

- Polyester strip, wooden wedges
- Special cervical matrix

Matrix

Transparent cervical matrix
Belvedere matrix









Class V. Glassionomer

cavities that are not Situated in enamel anterior as well as posterior area



Properties

- Chemical fixation to tooth structure
- > Fluoride release
- > Favorable thermal expansion
- > Aceptable aesthetics

Determination of cavity borders

Cavity is limited on the caries defect only – no extention!!!!

The depth usually 1 mm

> Box

> Chemical

Finishing of cavity margin

Fine diamond bur

Filling

- Conditioner (based on polyacrylic acid 20 s)
- Washing off
- > Wet cavity
- > Filling material placed in one bulk
- > Matrix
- > Varnish







Class V. Sandwich filling

Base is made of galsionomer – replaces of the lost dentin

Thin layer of composite – replaces the lost enamel

