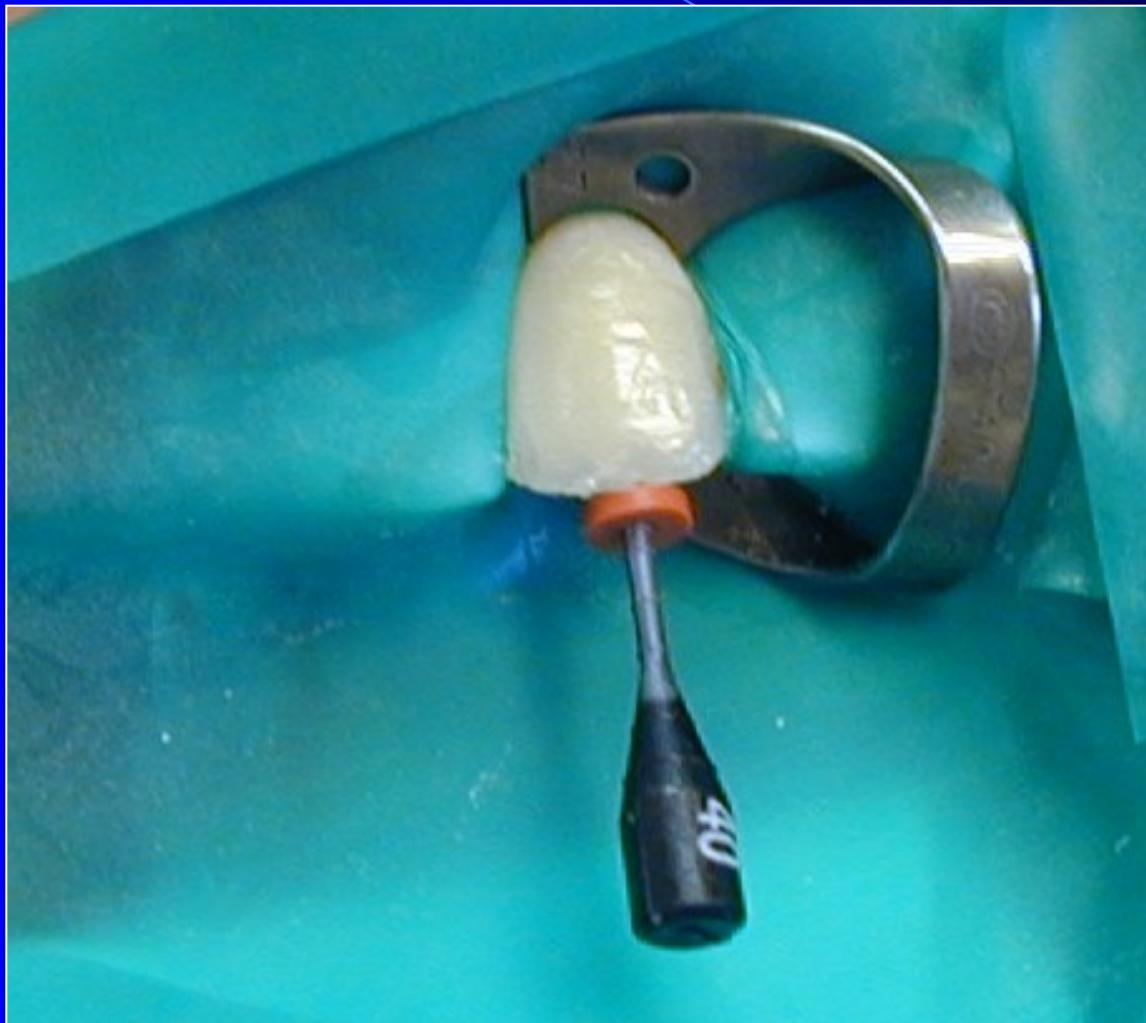


Isolation of the operating field



Goals of isolation

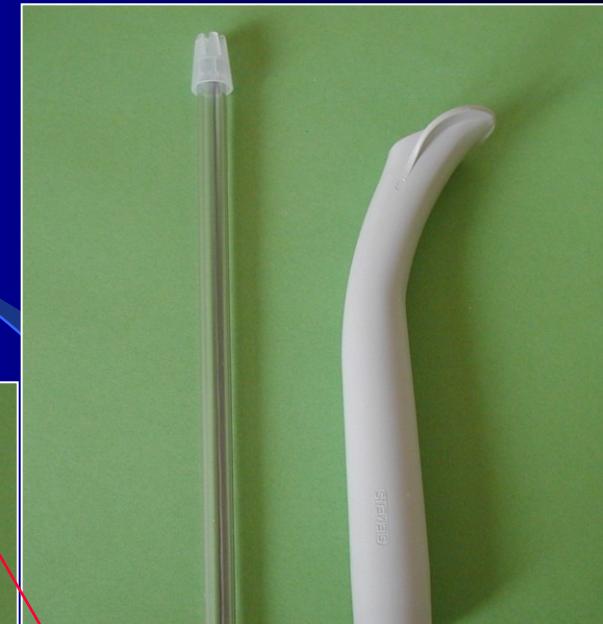
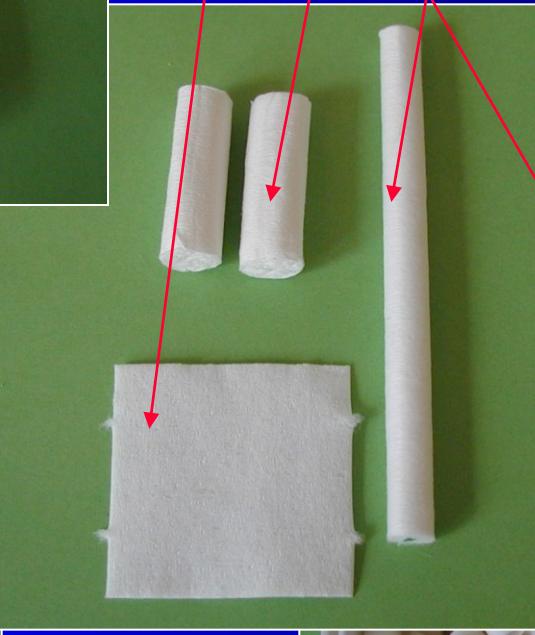
- Moisture control – excluding sulcular liquid, saliva, gingival bleeding, cooling spray, restorative debris
- Relatively and absolutely dry operating field

Relative dry operation field

- Excluding sulcular liquid, saliva, gingival bleeding, cooling spray, restorative debris
The operating field is not isolated against moist air - high relative humidity in oral cavity.

Suctions

Absorbents
Minidam
Cotton rollers
Cotton pellets
Cotton cups



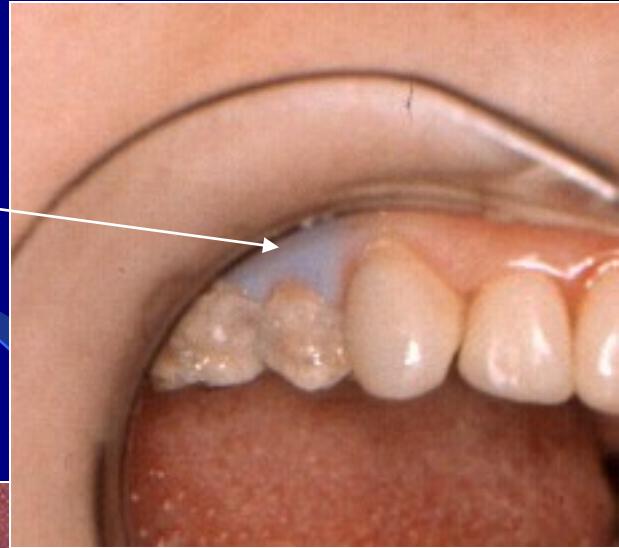
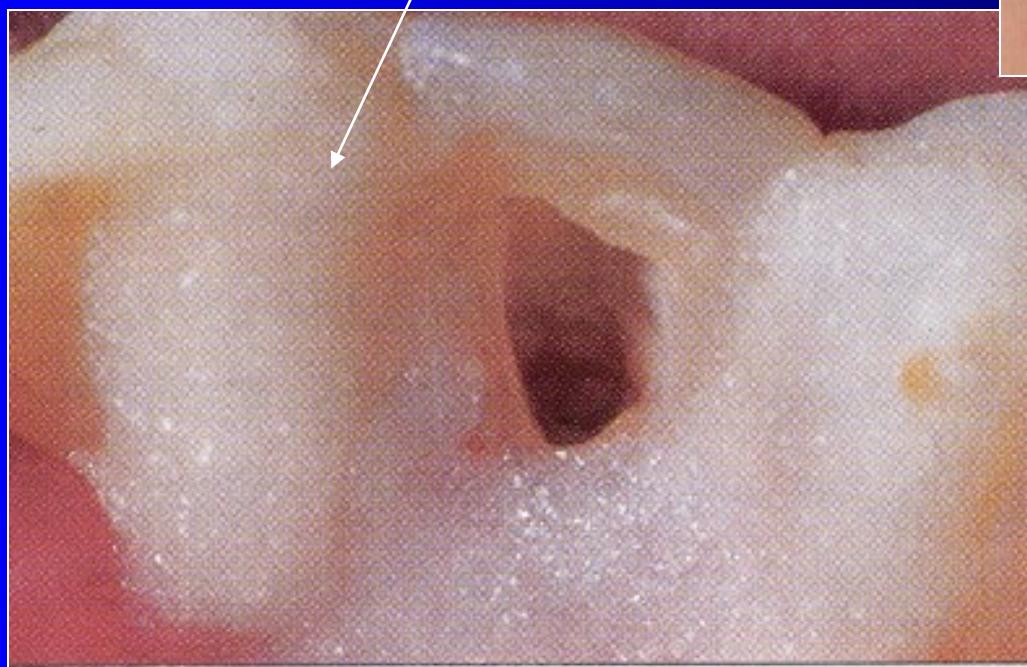
Wooden wedge

Compression of gingiva
Separation of teeth
Adaptation of matrices

Retraction cords



Special materials – light curing



Absolute moisture control

- **Rubber dam**

- A dry, clean operating field
- Improved access and visibility
- Potentially improved properties of dental materials (curing, bonding)
- Protection of the patient (aspirating, swallowing, protection of soft tissues, mercury exposure) and operator (infection control barrier)
- Operating efficiency

Disadvantages

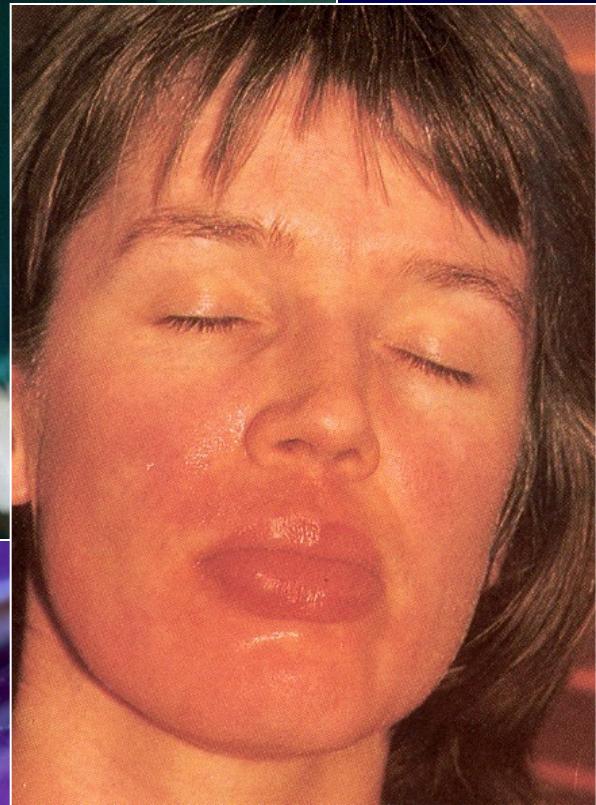
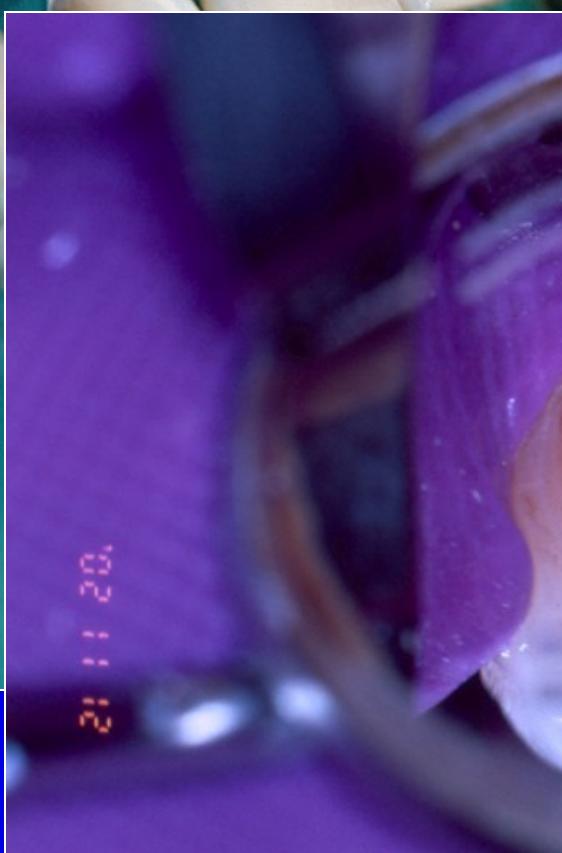
Breathing difficulties (asthma)

**Teeth that have not erupted
sufficiently to
support a retainer**

Extremely malpositioned teeth

Psychologic reasons

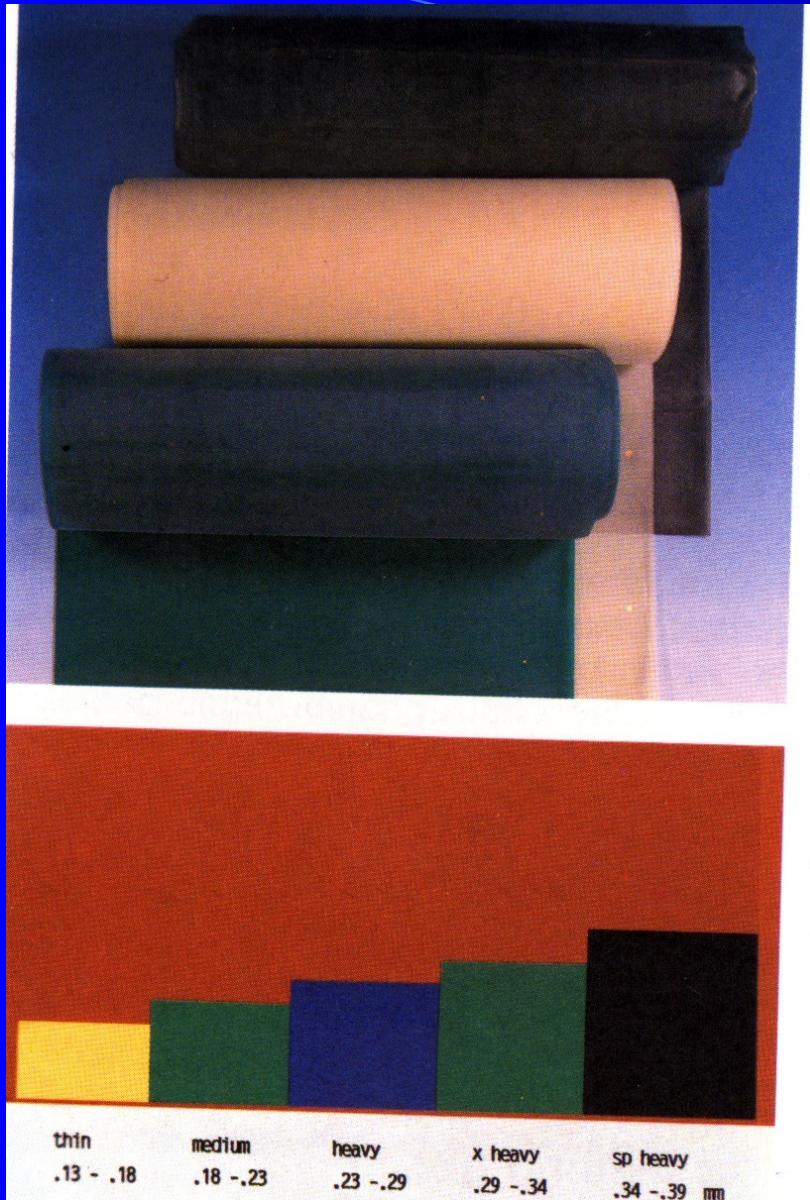
Latex allergy





Instruments and materials





Rubber dam material

- Deteriorates over time
- lower tear strength
- Available
- Sheets (12,5 x 12,5 or 15x 15 cm)
- Roll
- Thickness:
 - Thin, medium, heavy, extra heavy,
 - special heavy

Rubber dam holder - frame

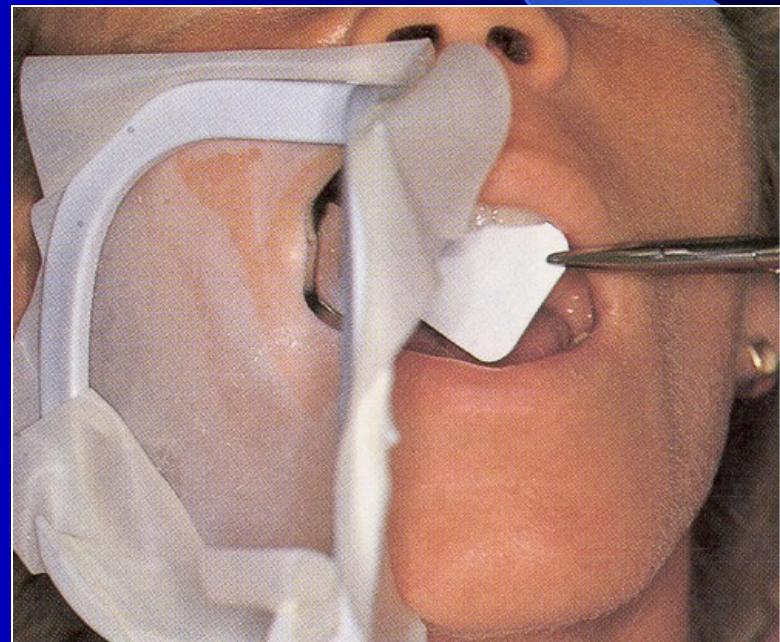
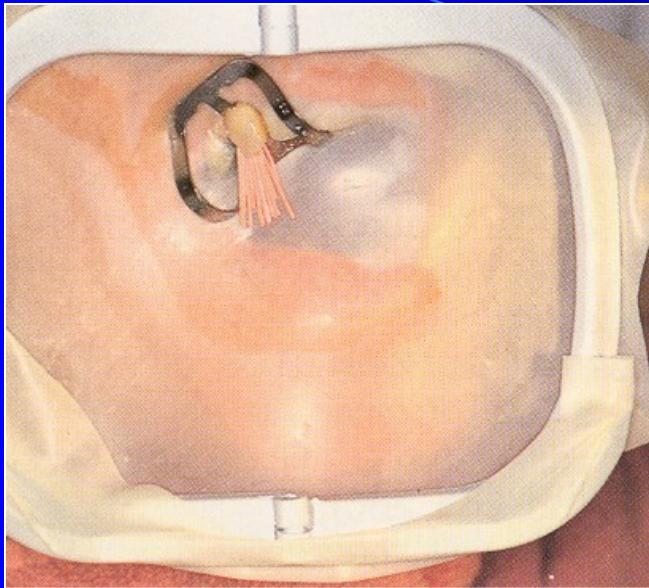


Maintains the rubber dam in position

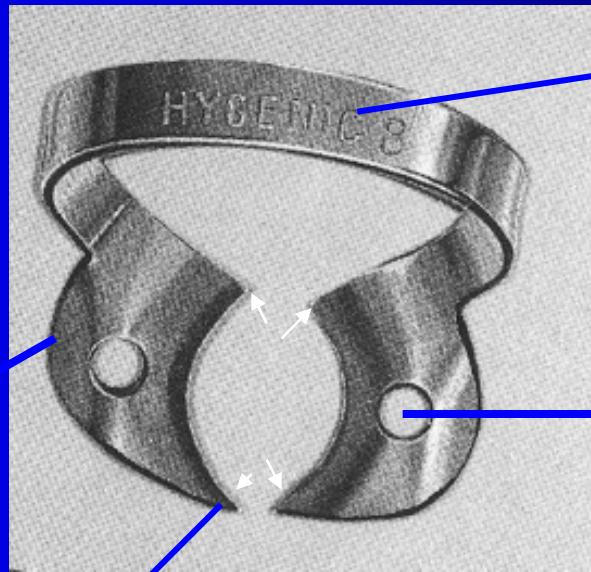
U shaped

Closed

Closed with joint



Rubber dam retainers - clamps



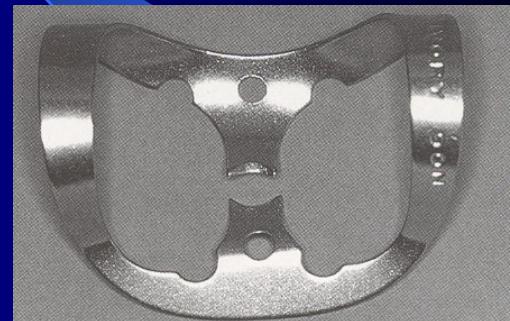
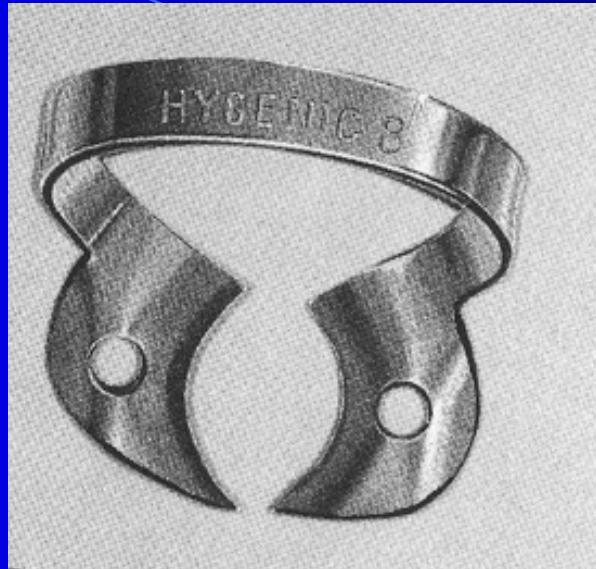
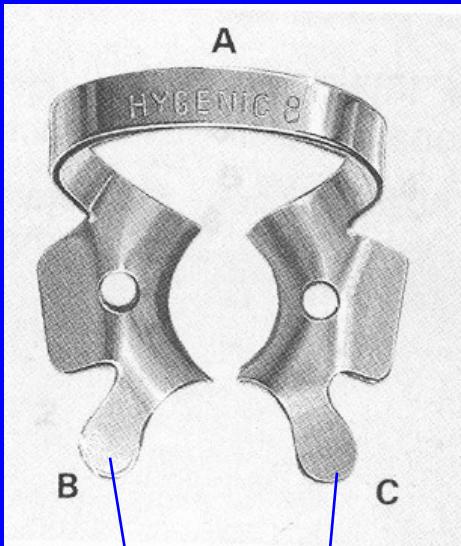
Bow

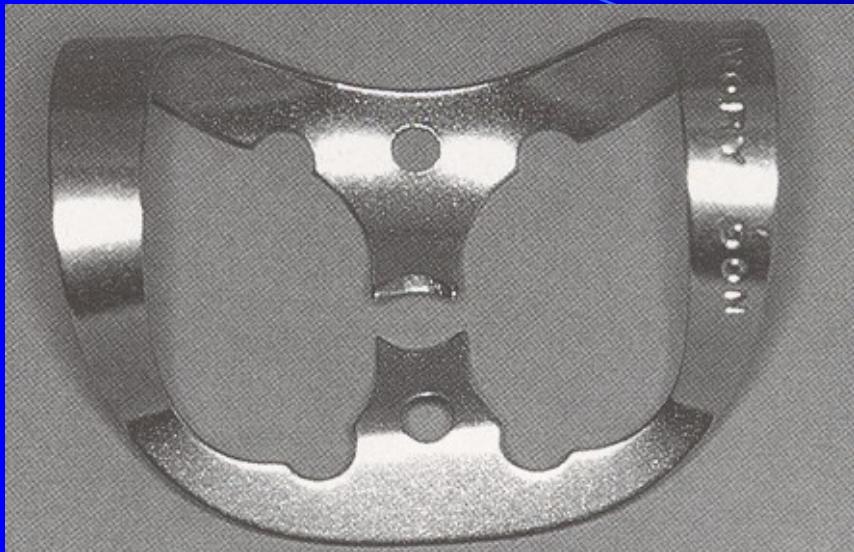
Hole

Prongs (4 prongs)

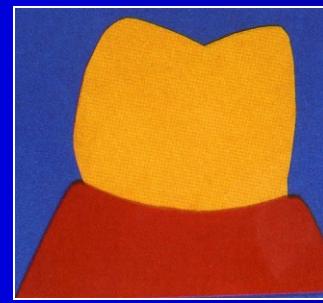
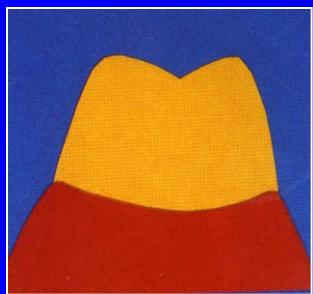
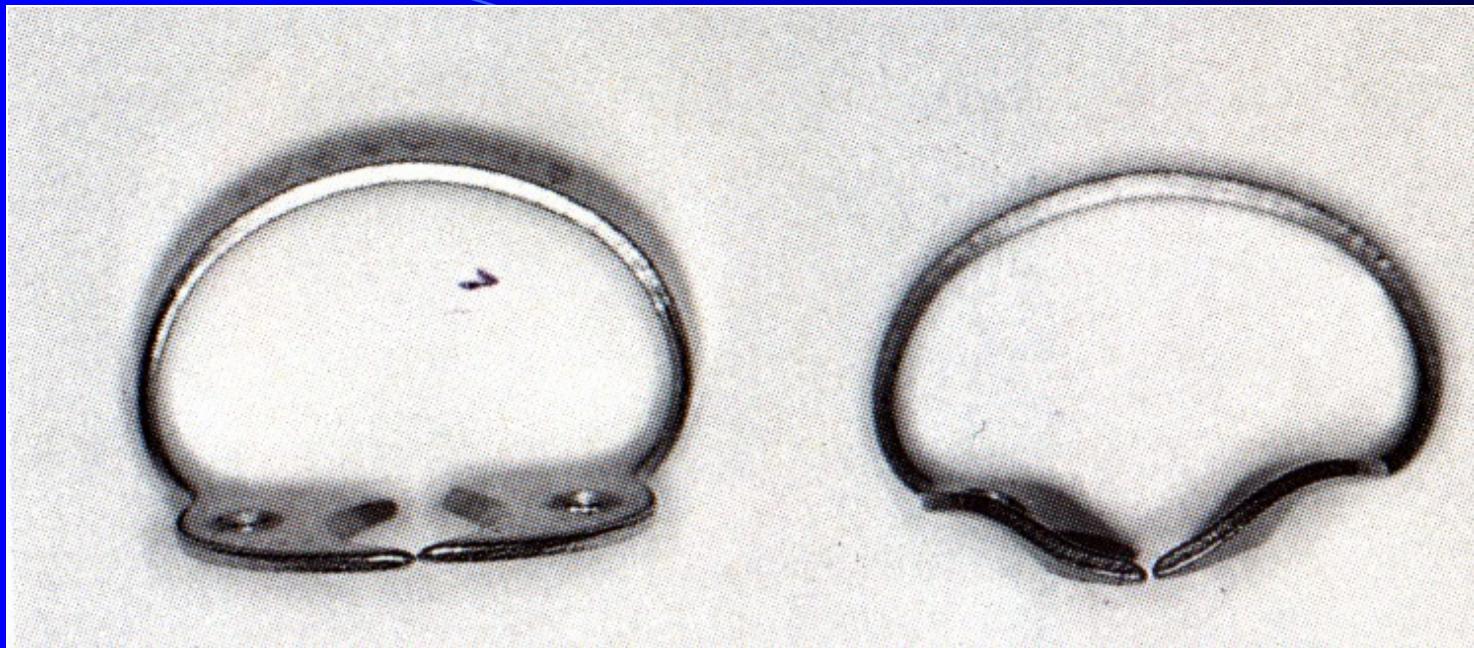
**Anchore the rubber dam
to the most posterior tooth to be isolated**

Wingless and winged retainers

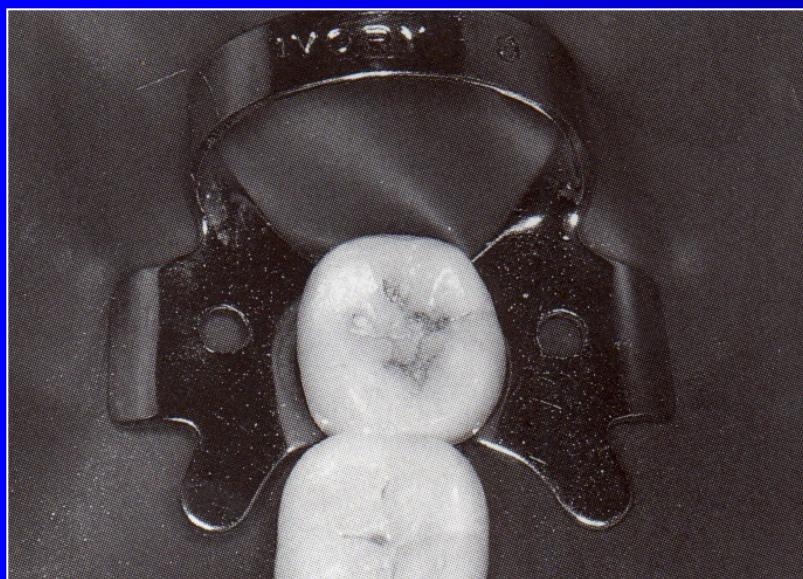
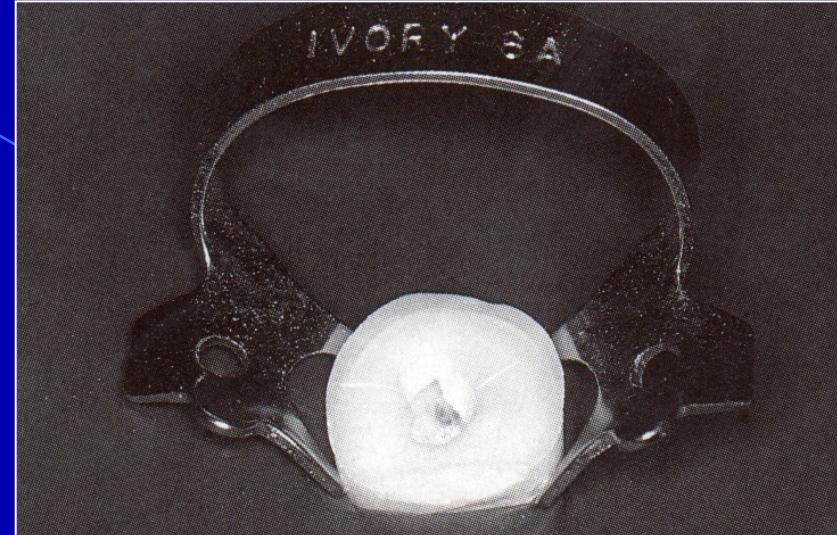
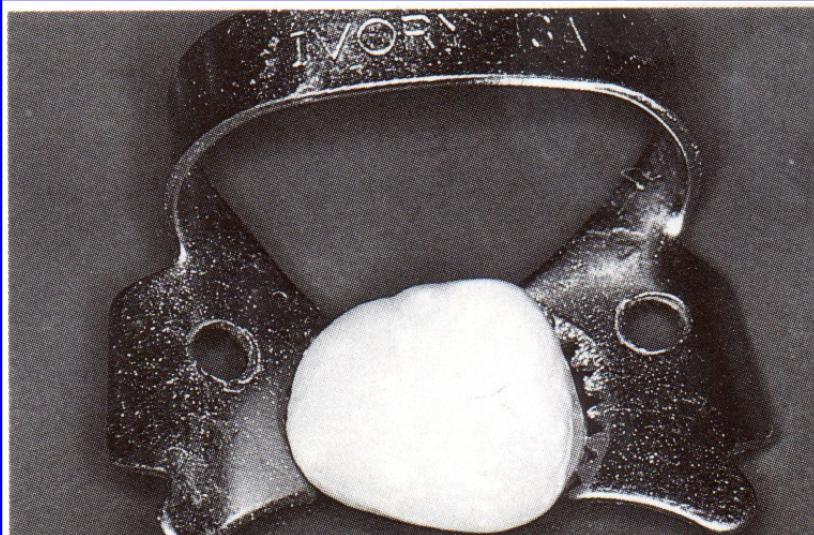




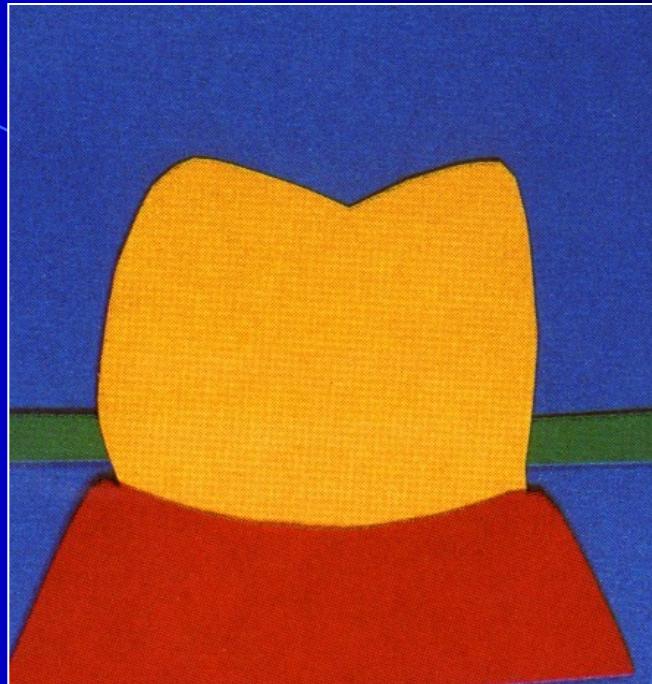
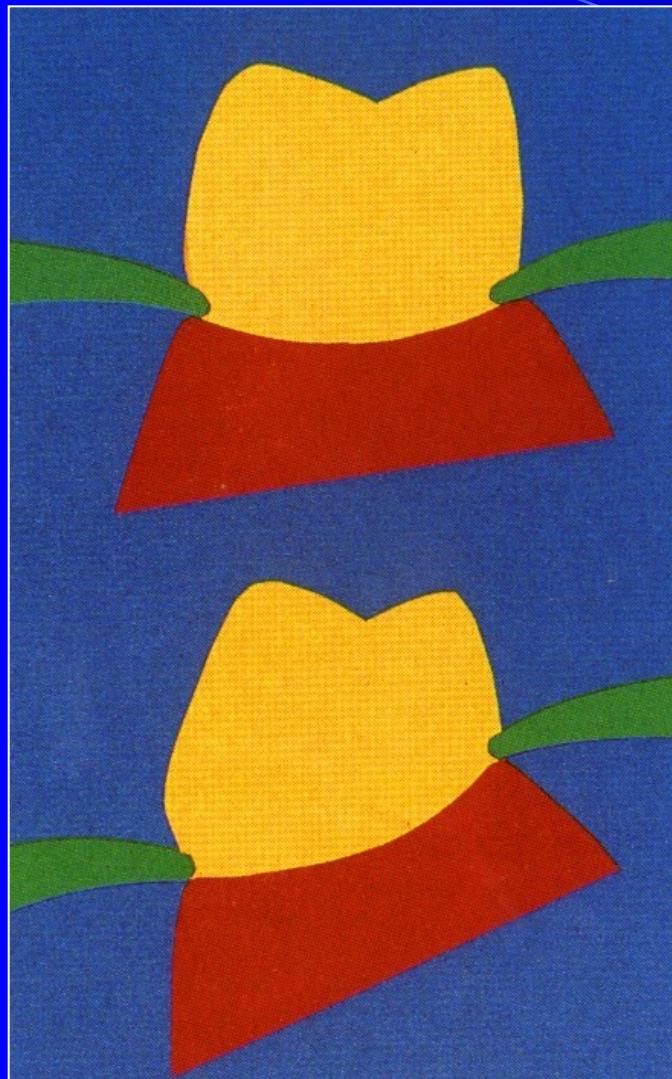
lenka.roubalikova@tiscali.cz



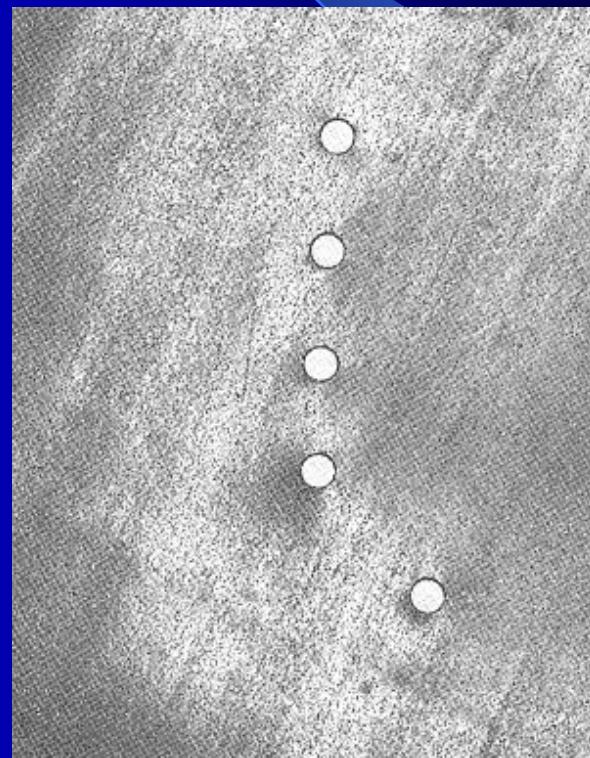
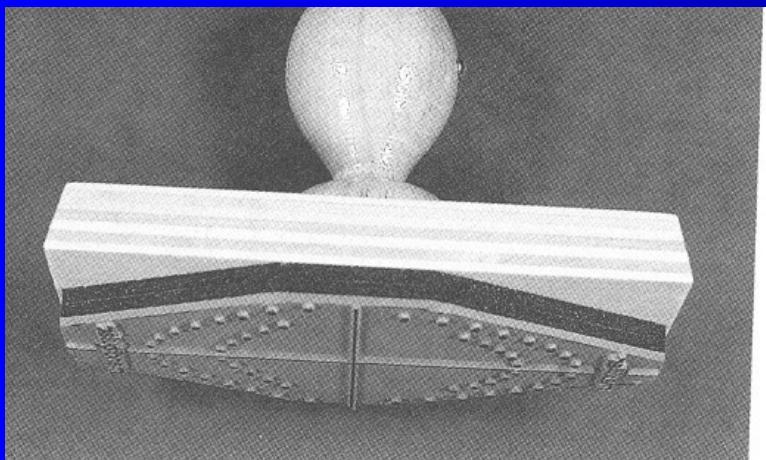
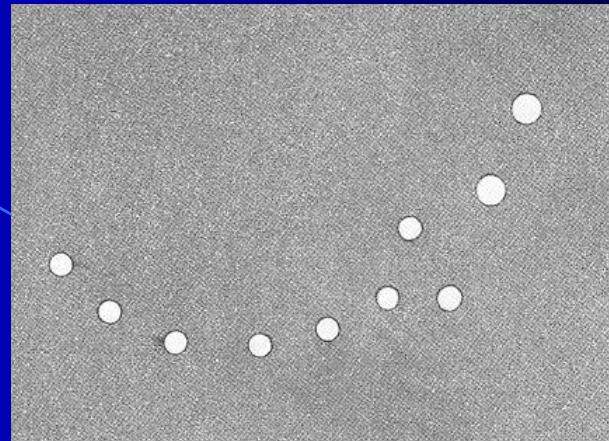
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The retainer must not move



Rubberdam template Rubberdam stamp



Rubber dam punch

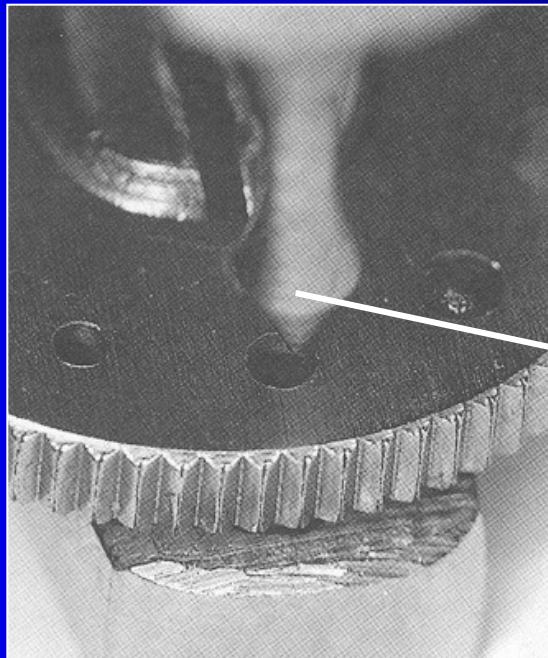
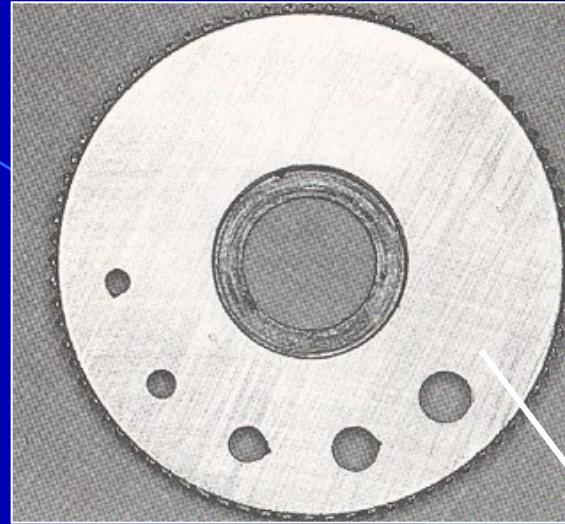
Cuts the puncture
in the rubberdam



Ainsworth

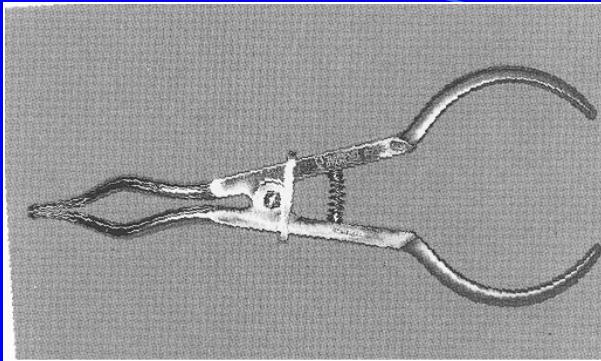


Ivory



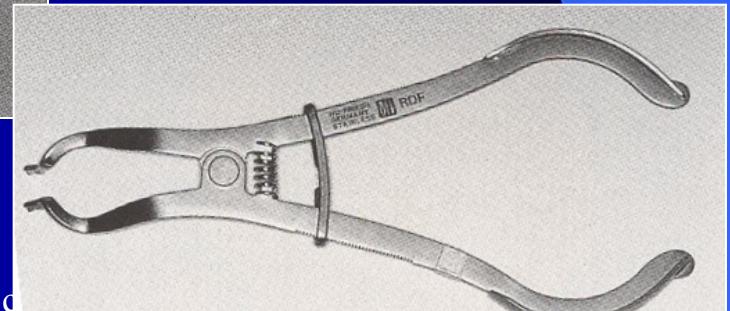
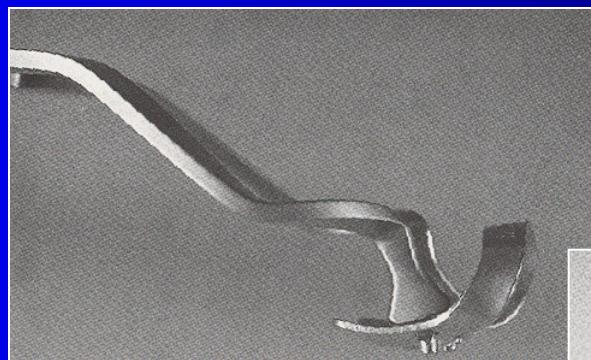
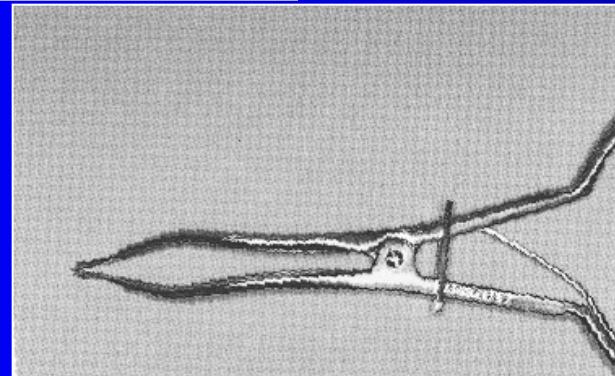
Rotating metal table – disk
Six holes of varying size

Tapered plunger
centered in
the cutting hole



Retainer forceps

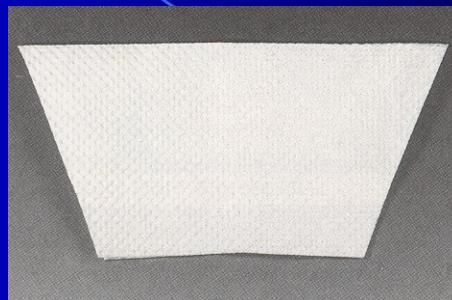
For placement and removal of the retainer



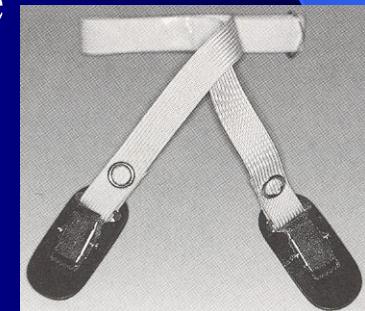
Lubricant



Rubberdam napkin



Neck strape



Perforace blány



Vyražení otvoru
Okraje okrouhlé bez
nepravidelností





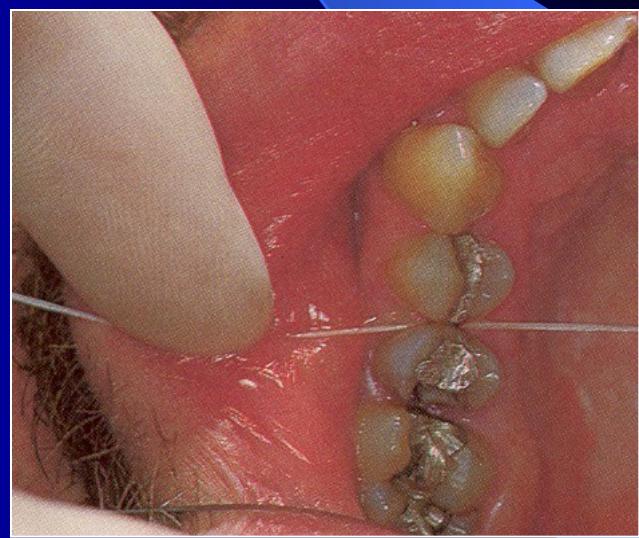
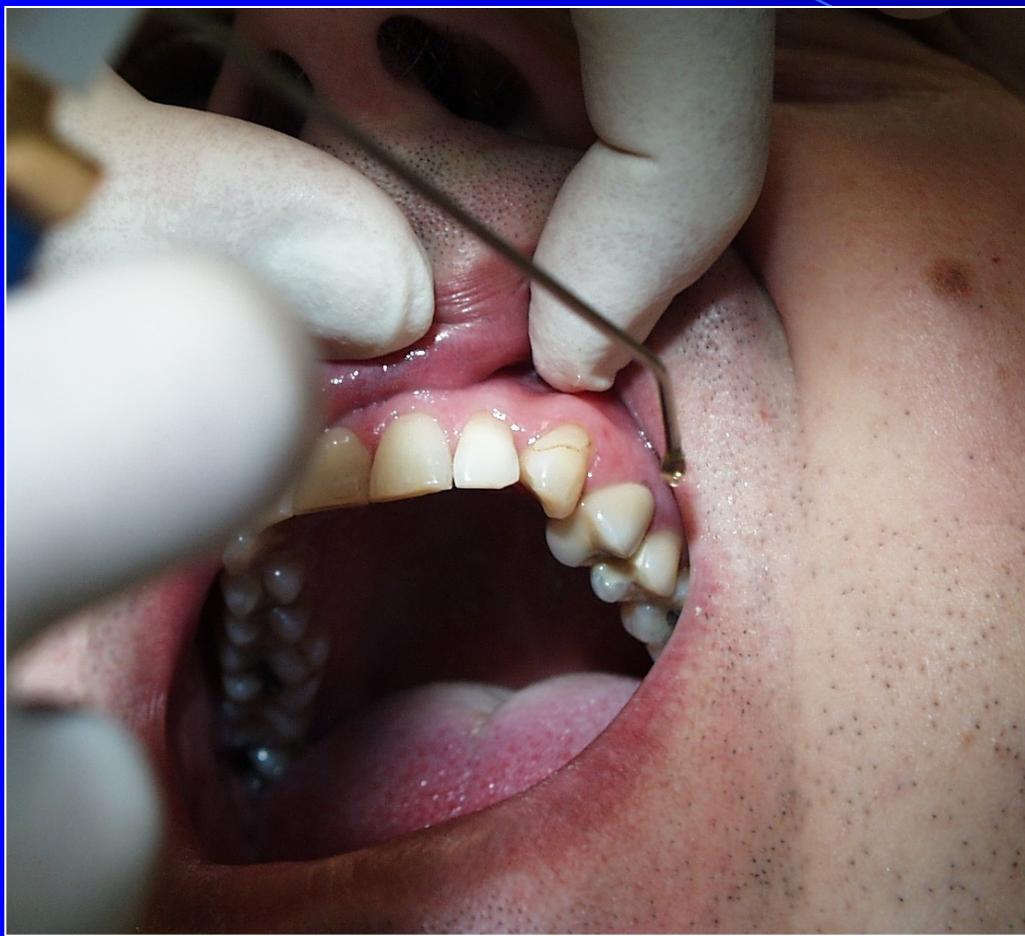
lenka.roubalikova@tiscali.cz

Placement

- **Comfort of the patient and operator**
- **Anaesthesia**
- **Checking of proximal contacts – dental tape**
- **Punching the holes**
- **Lubrication the dam**
- **Selecting the retainer**
- **Testing the stability of the retainer**
- **Positioning of rubberdam**
- **Applying of the napkin**
- **Attaching the frame**

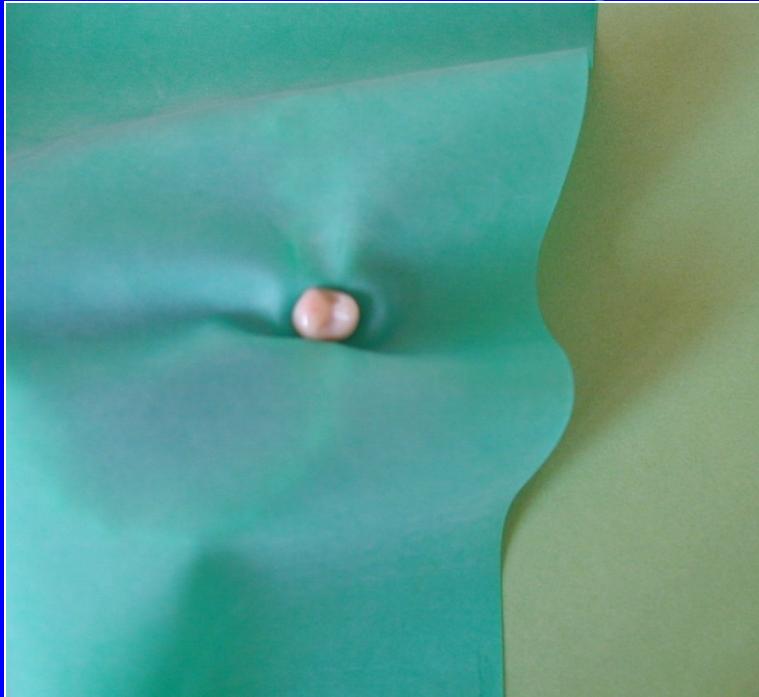
Placement

- Passing the septa with and without the tape
- Inverting the dam interproximally – interdental adaptation
- Inverting the dam faciolingually – inversion
- Confirming a properla applied rubber dam
- Removal of the rubber dam (cut the with scissors)
- Removing of the retainer
- Wiping the lips
- Examining the dam (no remnants)



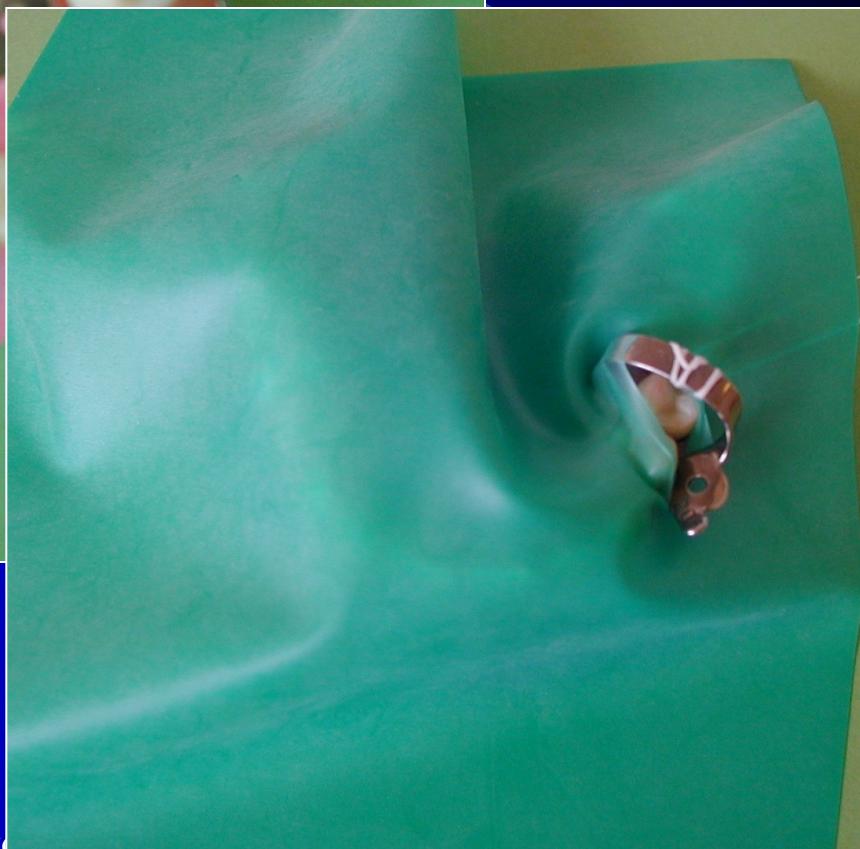
Modes of placement

- **Rubber first**



Modes of placement

- **Retainer first**



lenka.roubalik

Modes of placement

- **Rubber and retainer together**

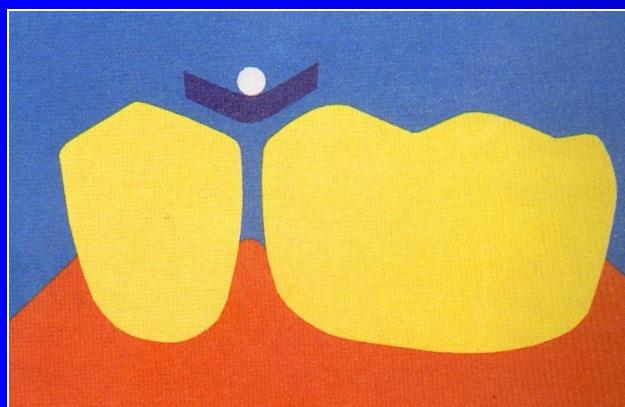
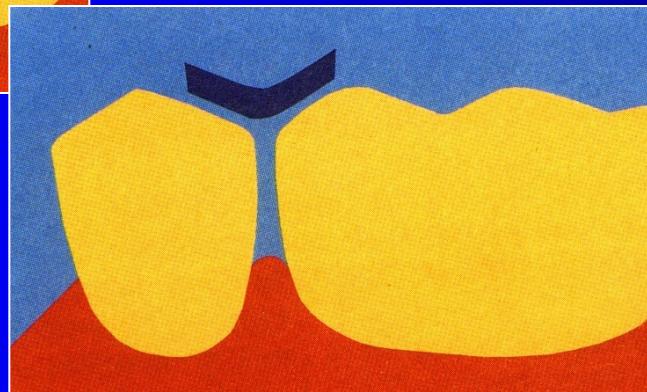
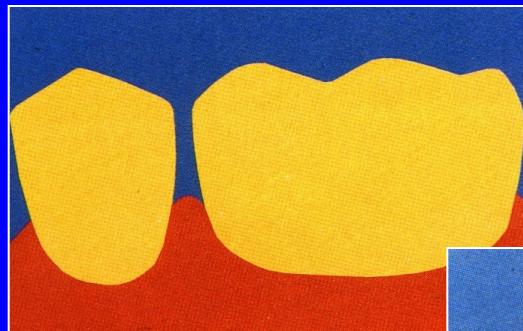


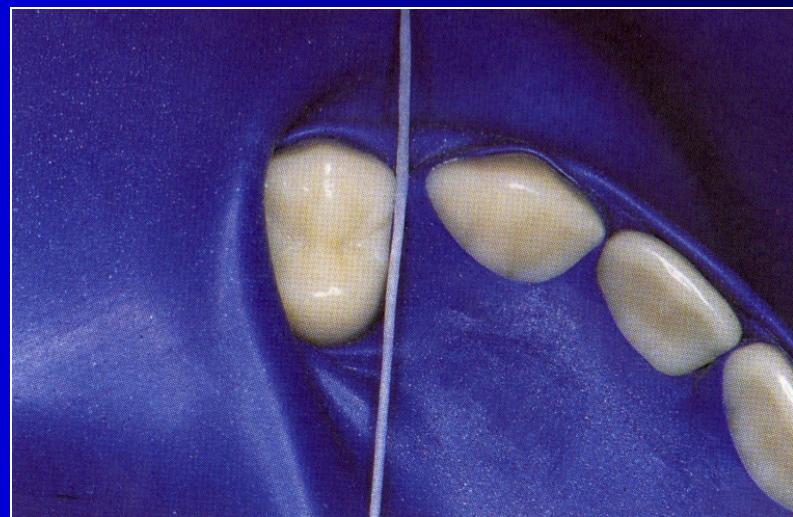
Modes of placement

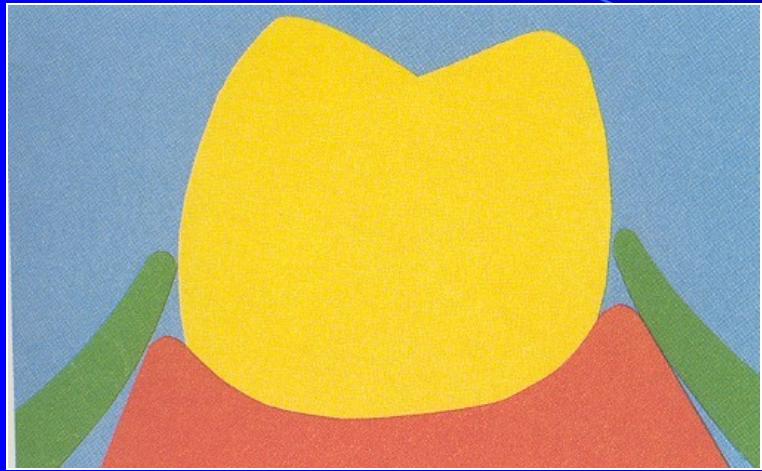
- „One second placement“



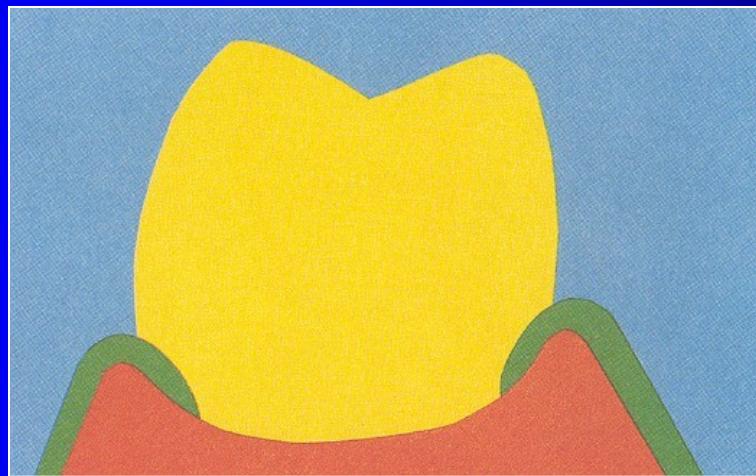
Interdental adaptation – inverting the rubber dam interdentally

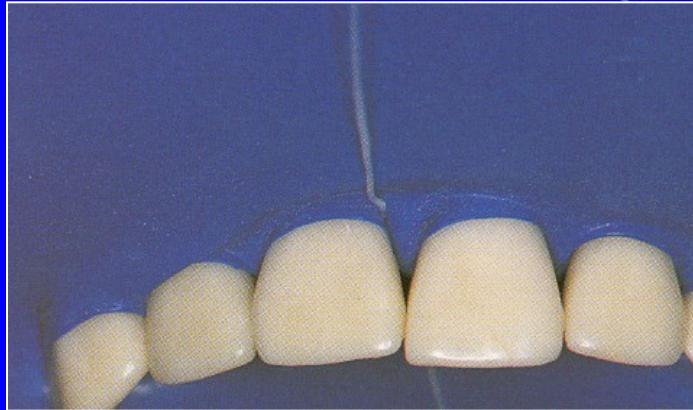




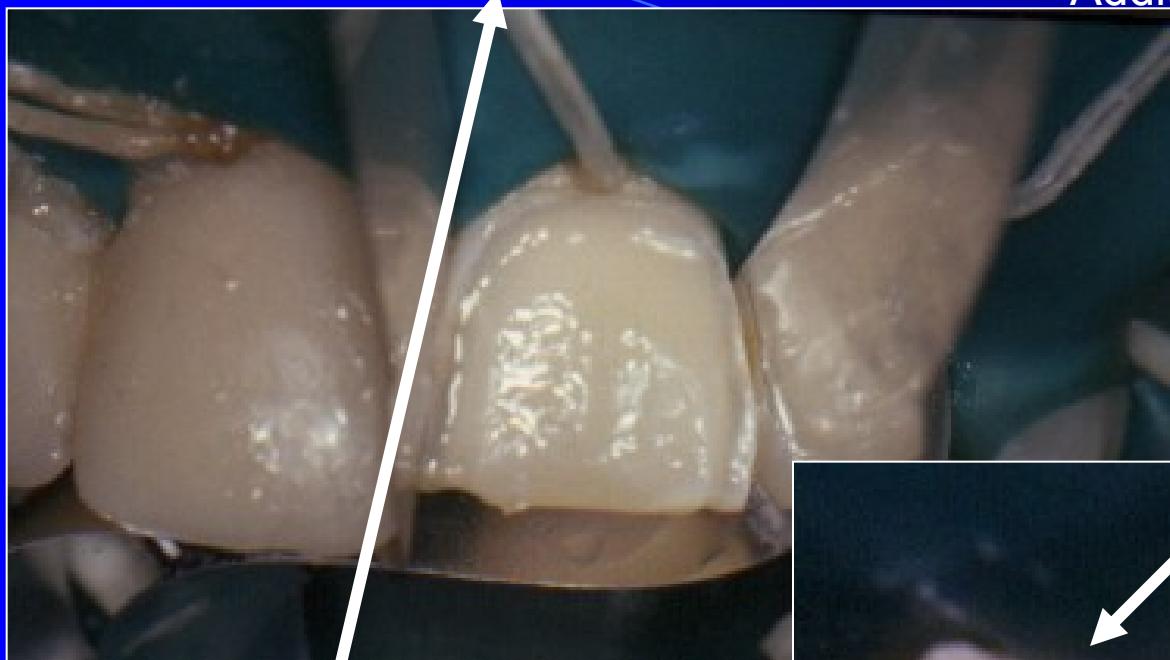


Inverting the rubber dam
faciolingually



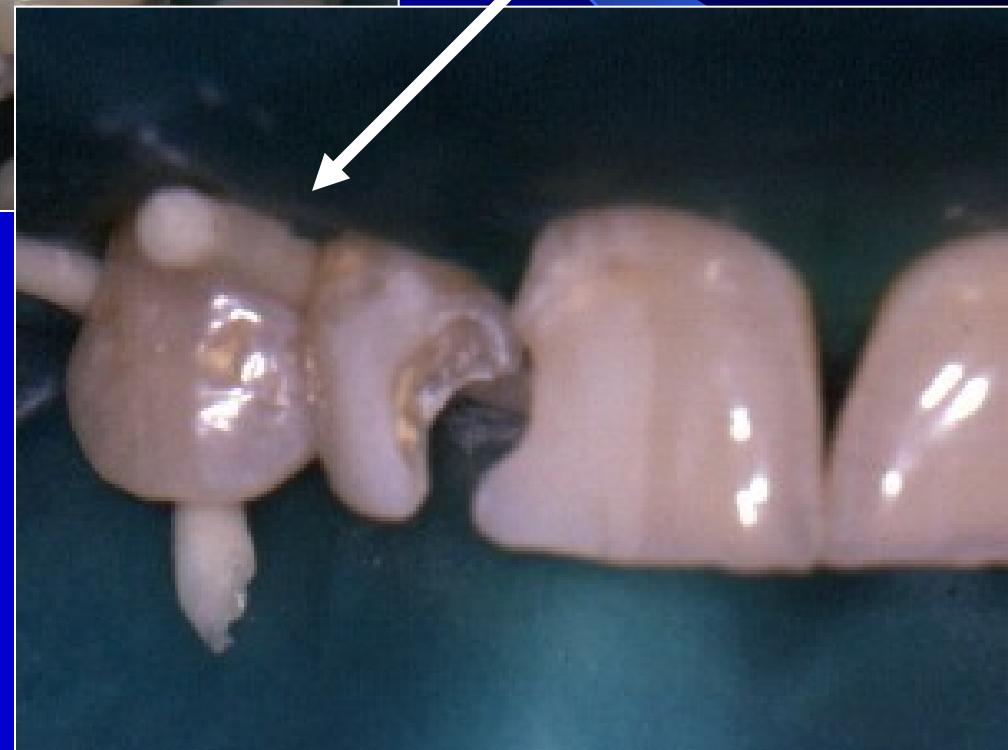


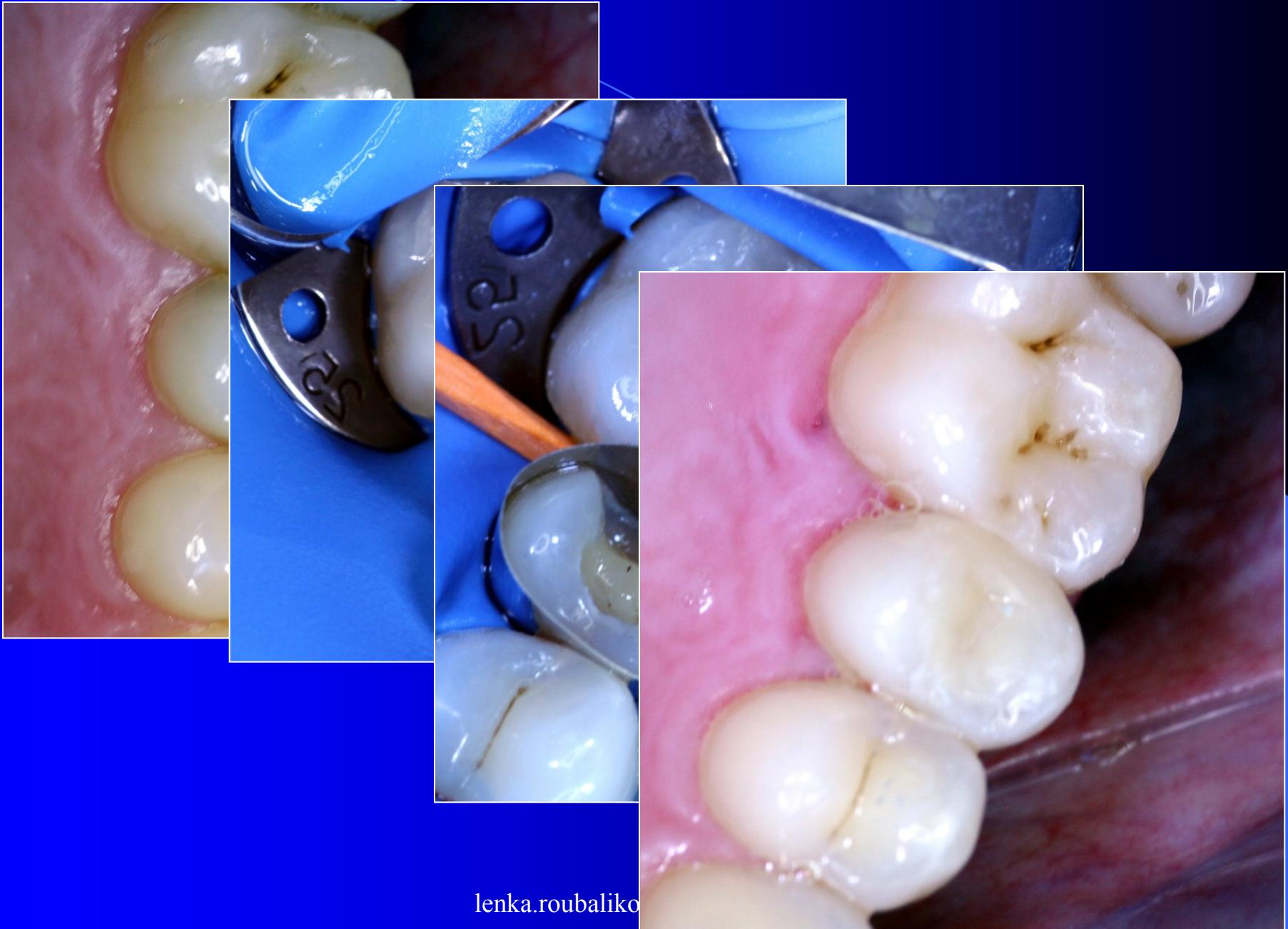
Additional methods and factors



Dentap tape

Wedjet



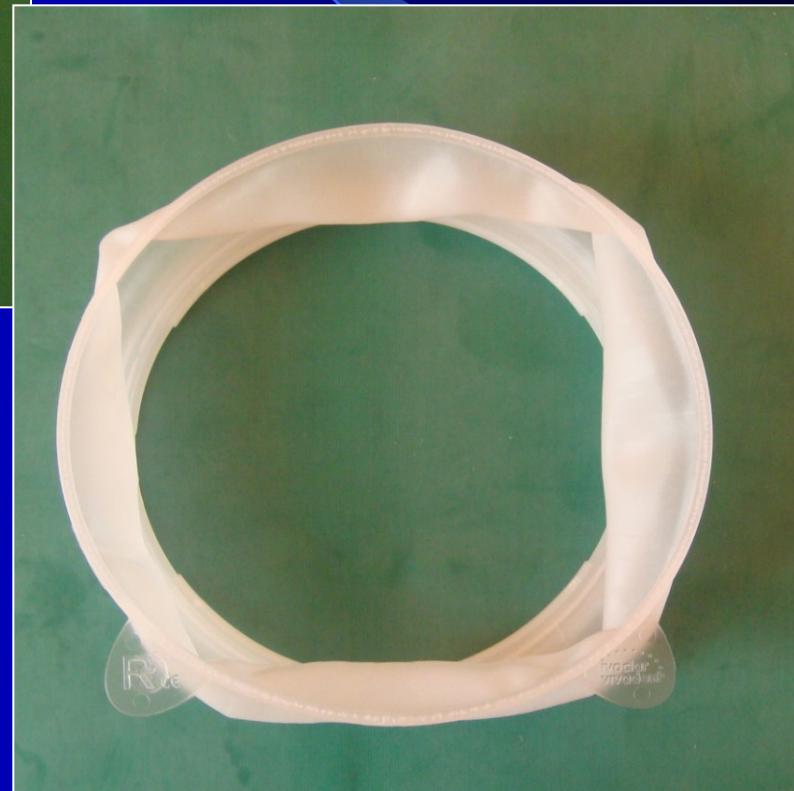


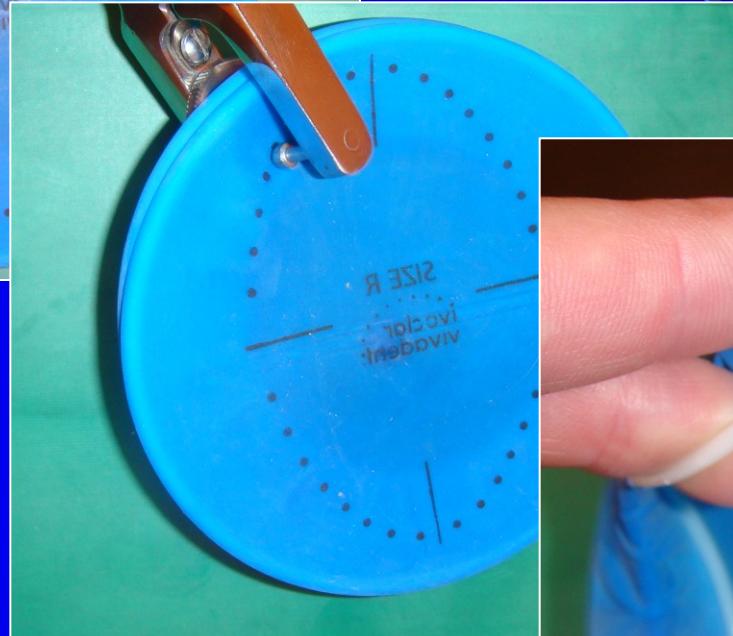
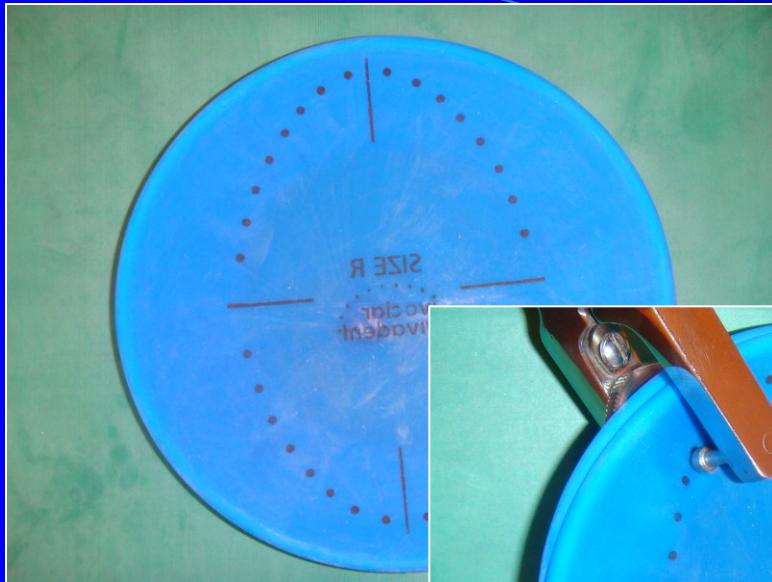
Modifications

- Optidam
- Optradam
- Minidam
- Dermadam



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