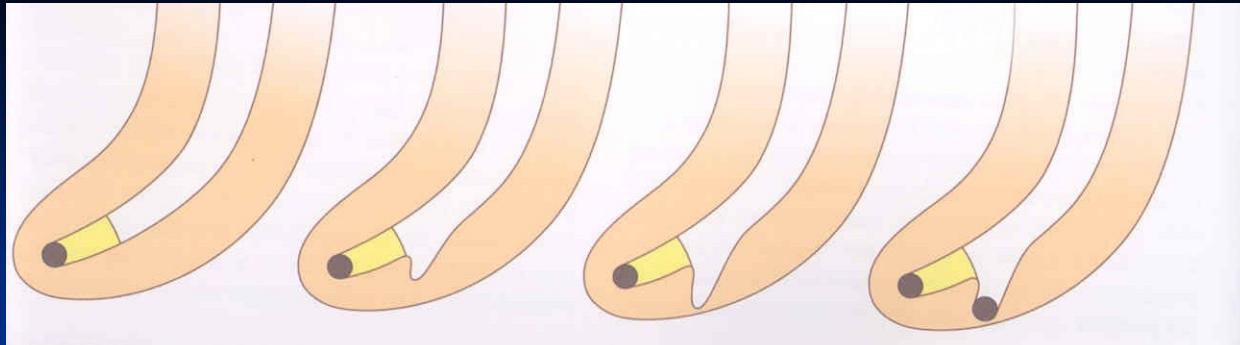


Complications of endodontic treatment

Local
Regional
Systemic



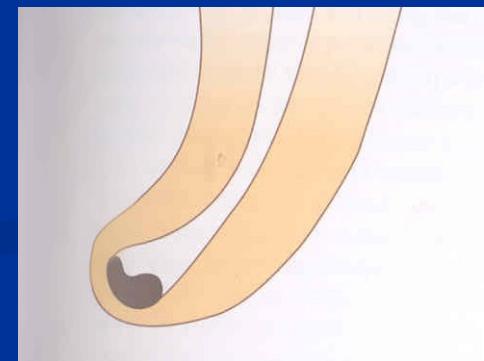
Plug of
dentin chips

Ledging

Transportation of the root canal

Via falsa

Zipping a elbow



Local complications

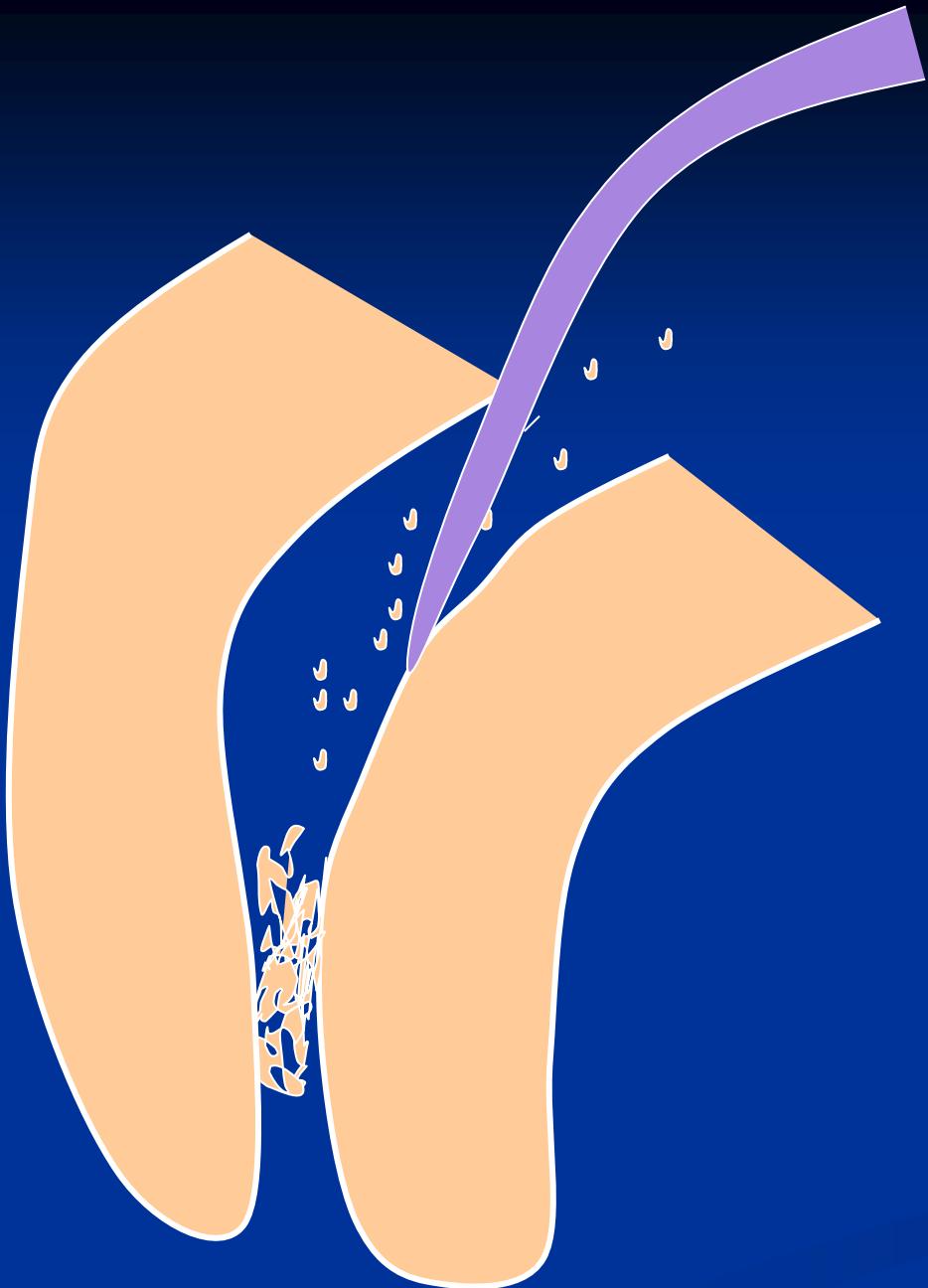
Plug



Reasons

Insufficient irrigation and
recapitulation

Loss of the working length



Solution

Repeated careful instrumentation with a thin instrument

Irrigation is not effective in this case!!!

Ledging



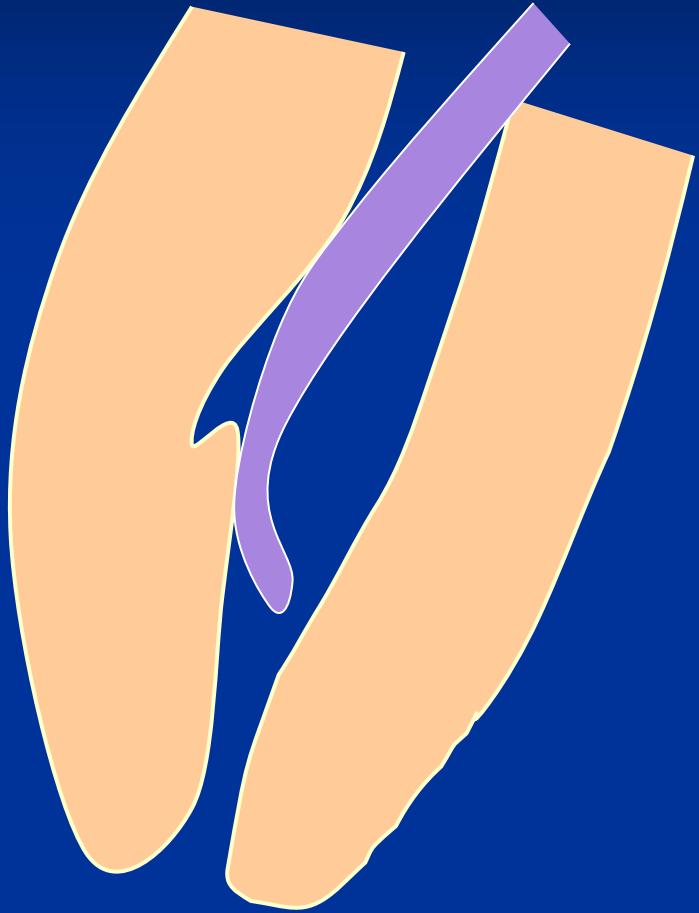
Reasons

The instrument is not bended in advance!

No control of the WL

=

No recapitulationLoss of the WL



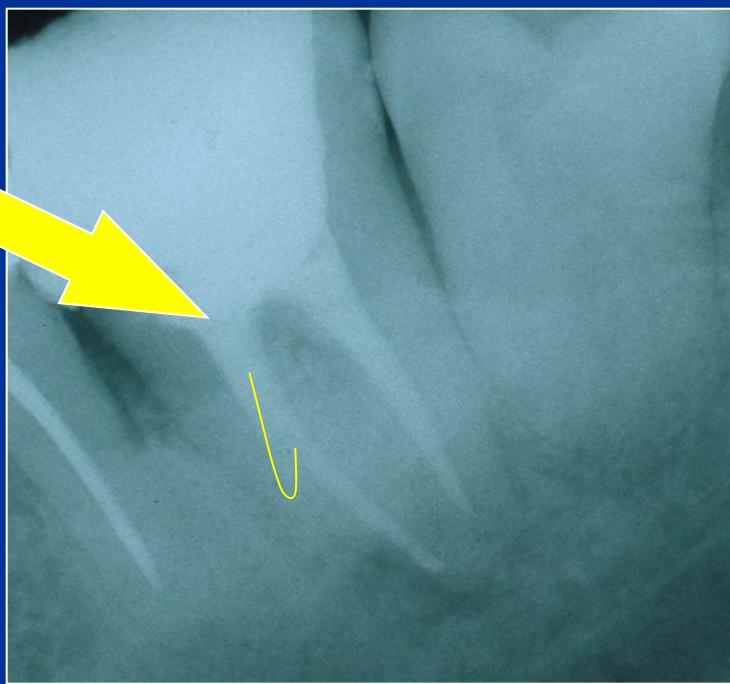
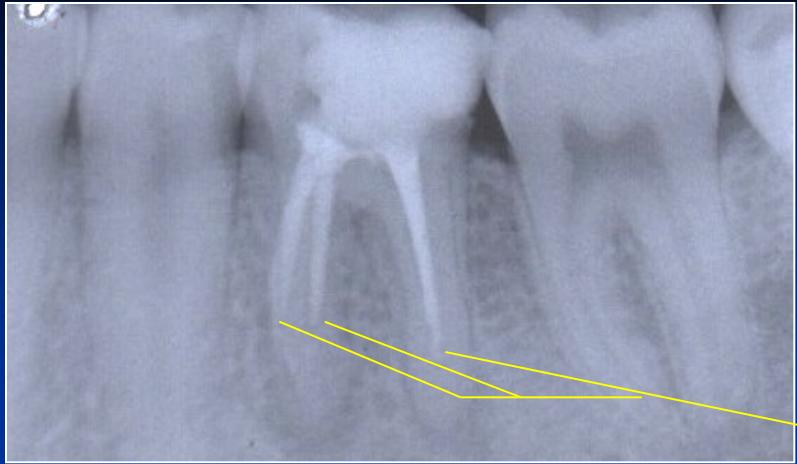
Solution

The instrument must be
bended in advance

Careful but complete rotation

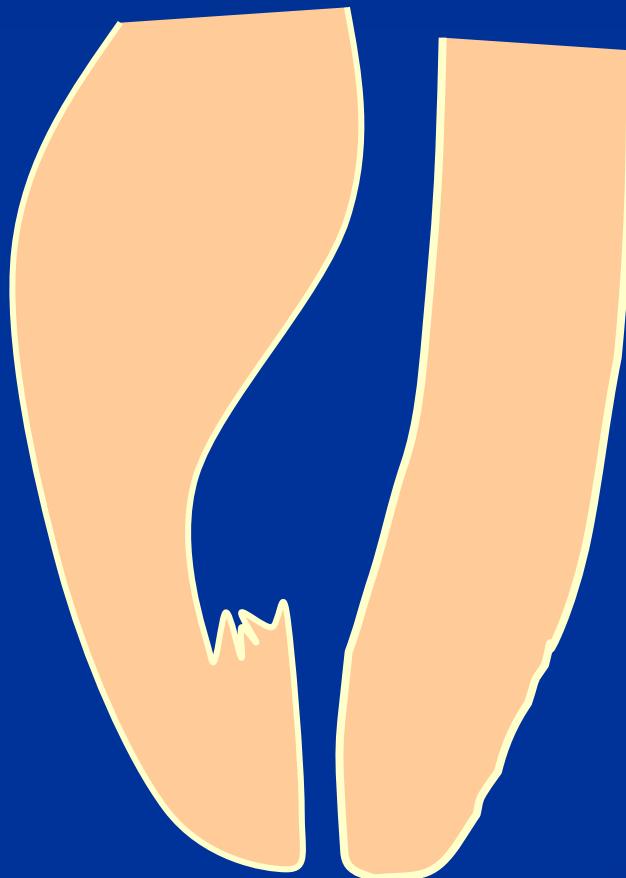
Finishing with the fine filing

No NiTi!!!



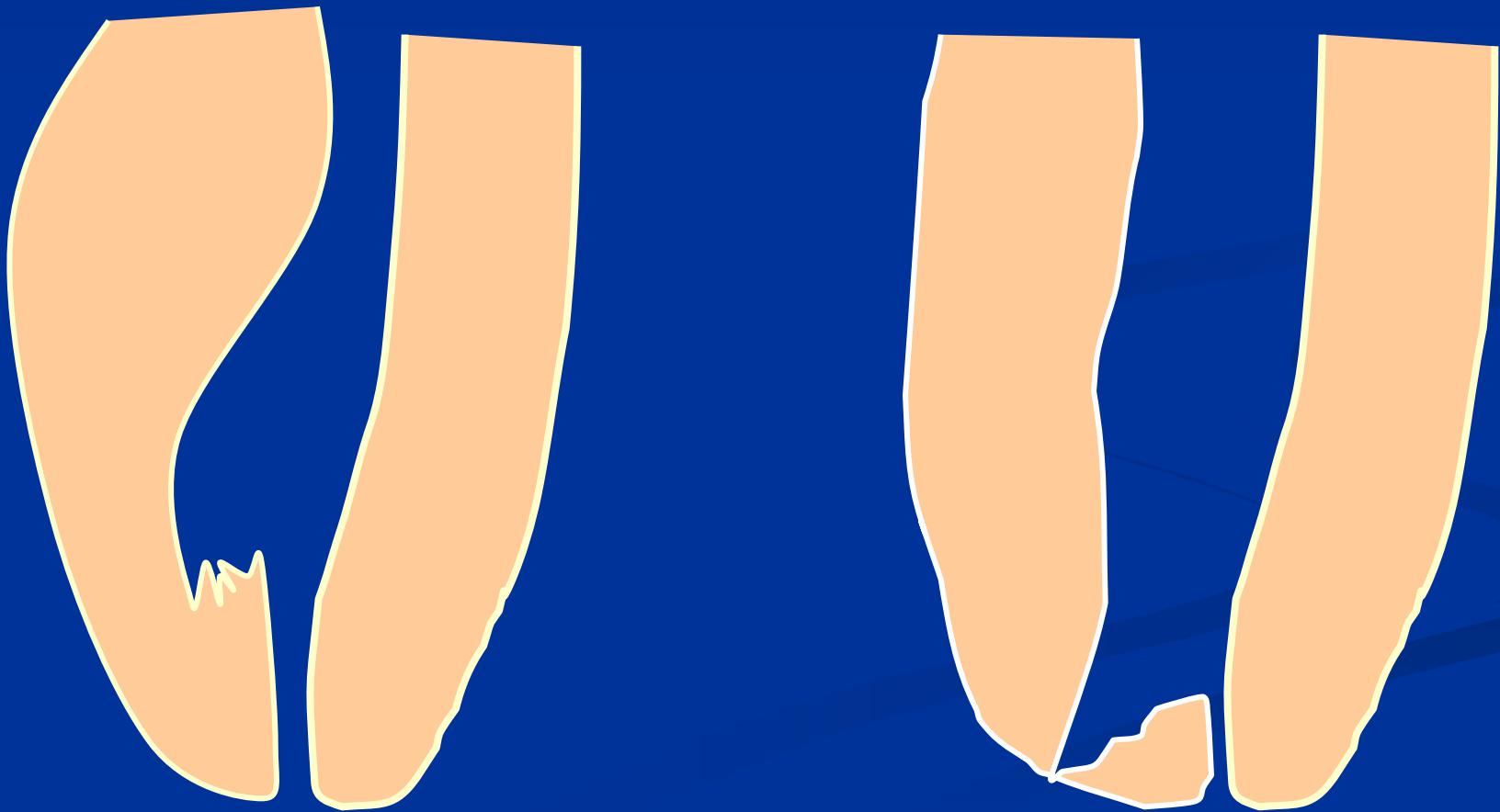
Ledging

Zipping a Elbow

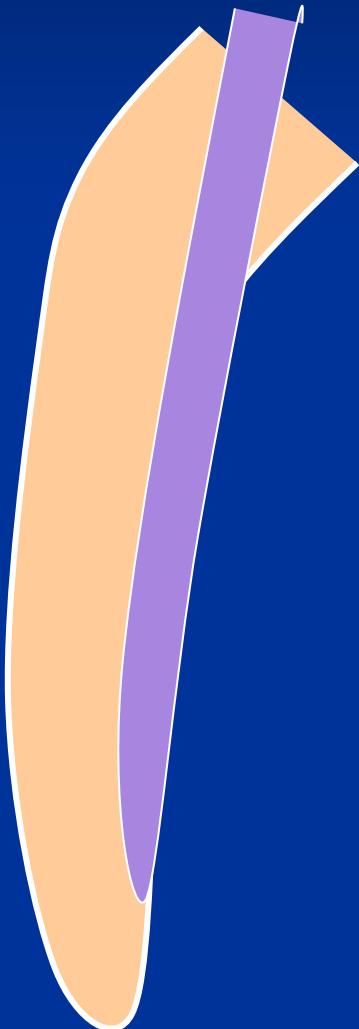


The instrument is not bended in advance!

Rotation in curved canals



Stripping



Reasons

Bad orientation in morphology – no diagnostic x-
Instruments are nod bended
Rotary NiTi with a big taper

Dangereous zones

Mandibular molars – mesial roots

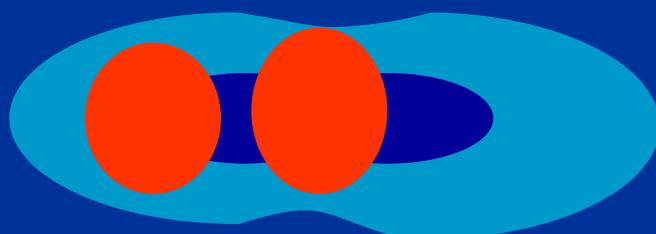
Premolars, esp. maxillary

Mandibular incisors



Oblast isthmu

Stripping



Důkladný přehled!

Šetřit oblast isthmu!

Ruční preparace!

Menší kónus NiTi !

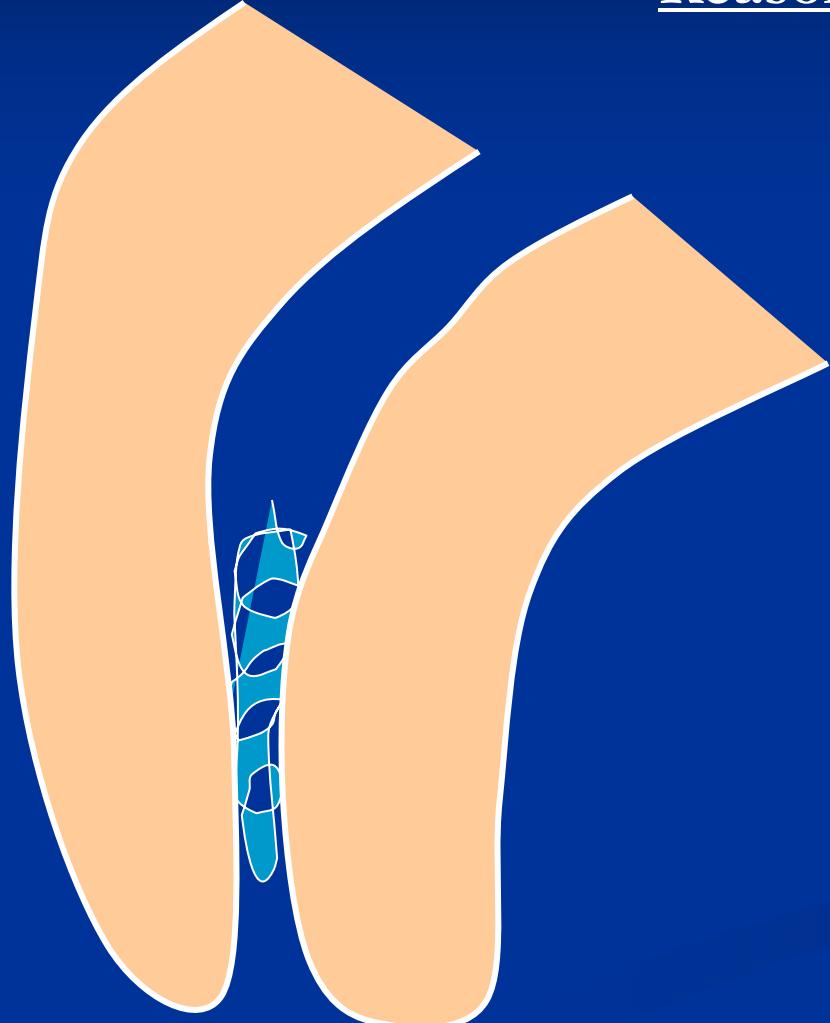
Stripping



Bend the instrument and eventually blunt it !

Fracture of the root canal instrument

Reasons



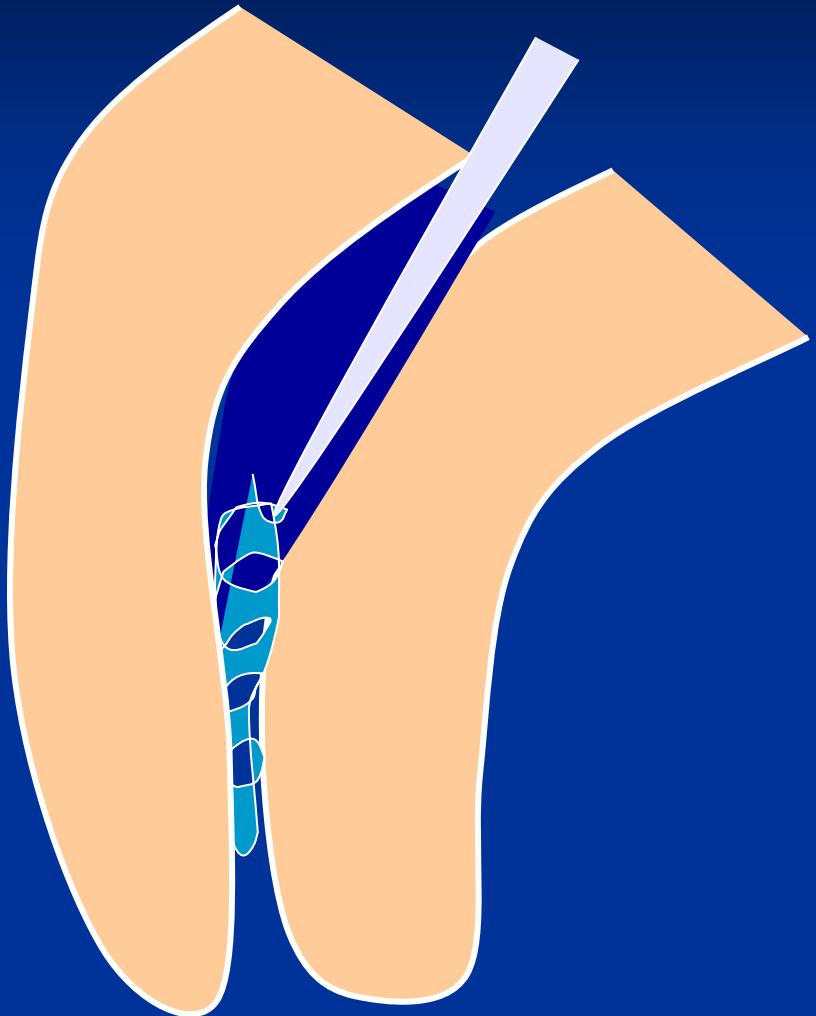
Insufficient
coronal flaring

Old root canal
instrument

Aggresive force

Incorrect
movement of the
root canal
instrument

Solution



Enlargement of the root canal till the instrument

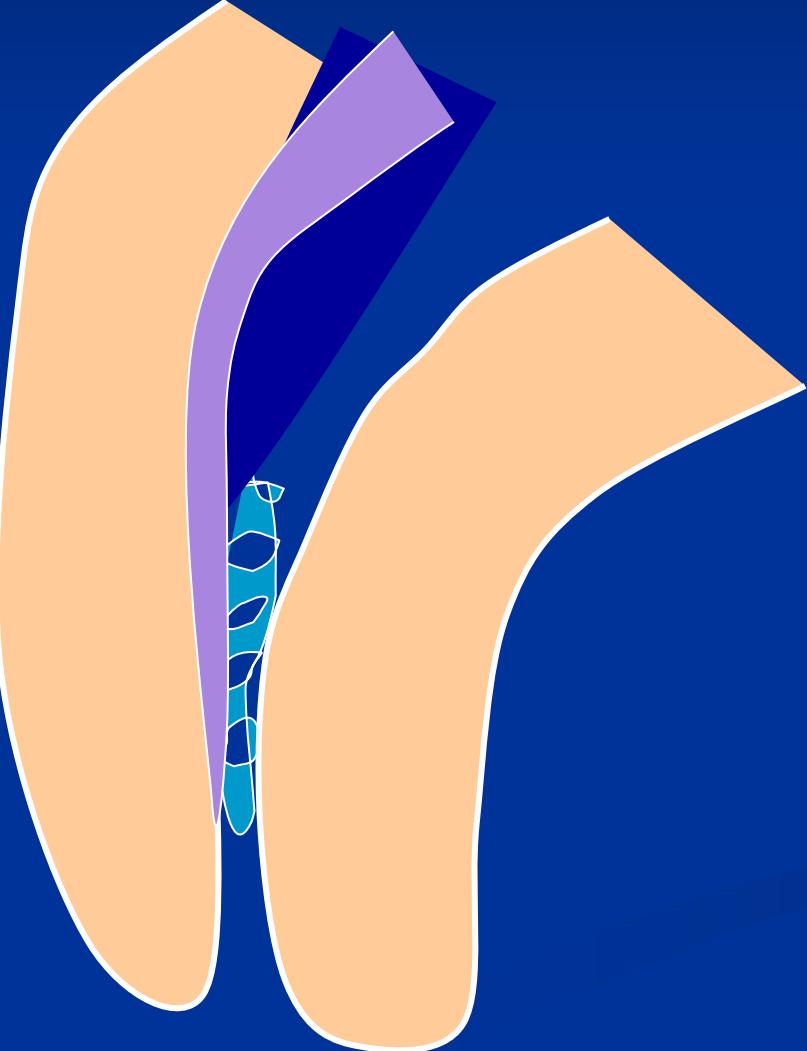
Ultrasound tips

Rotating root canal instrument – caution!

Bypass

Leaving in

Surgical treatment



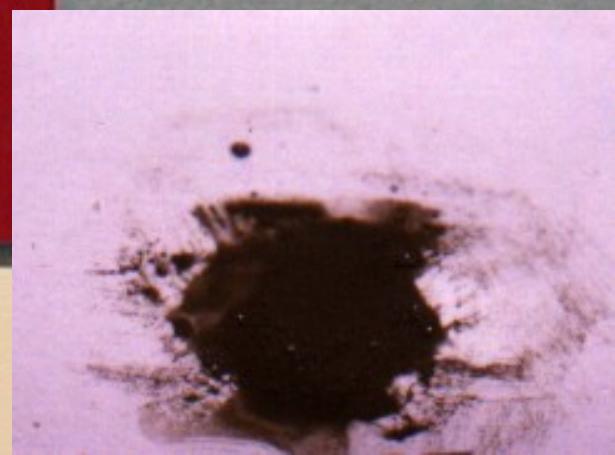
Bypass

Fractured instrument



Via falsa - Perforation

- Perforation of the bottom of the pulp chamber or the coronal part of the root canal
- Perforation in the middle part of the root canal
- Apical perforation



MTA composition

- Dicalcium silicate
- Trikalcalcium silicate
- Trikalcalcium aluminate
- Tetrakalcium aluminate
- Cuprum sulphate
- Bismuthum trioxide
- = Portland cement



MTA

- Good sealing ability
- Promotion of healing







Via falsa - treatment

- No bleeding
- Desinfection
- MTA – moisture (wet cotton pellet)
- Filling







Via falsa

- Apical perforation
- Plug of MTA, root canal filing

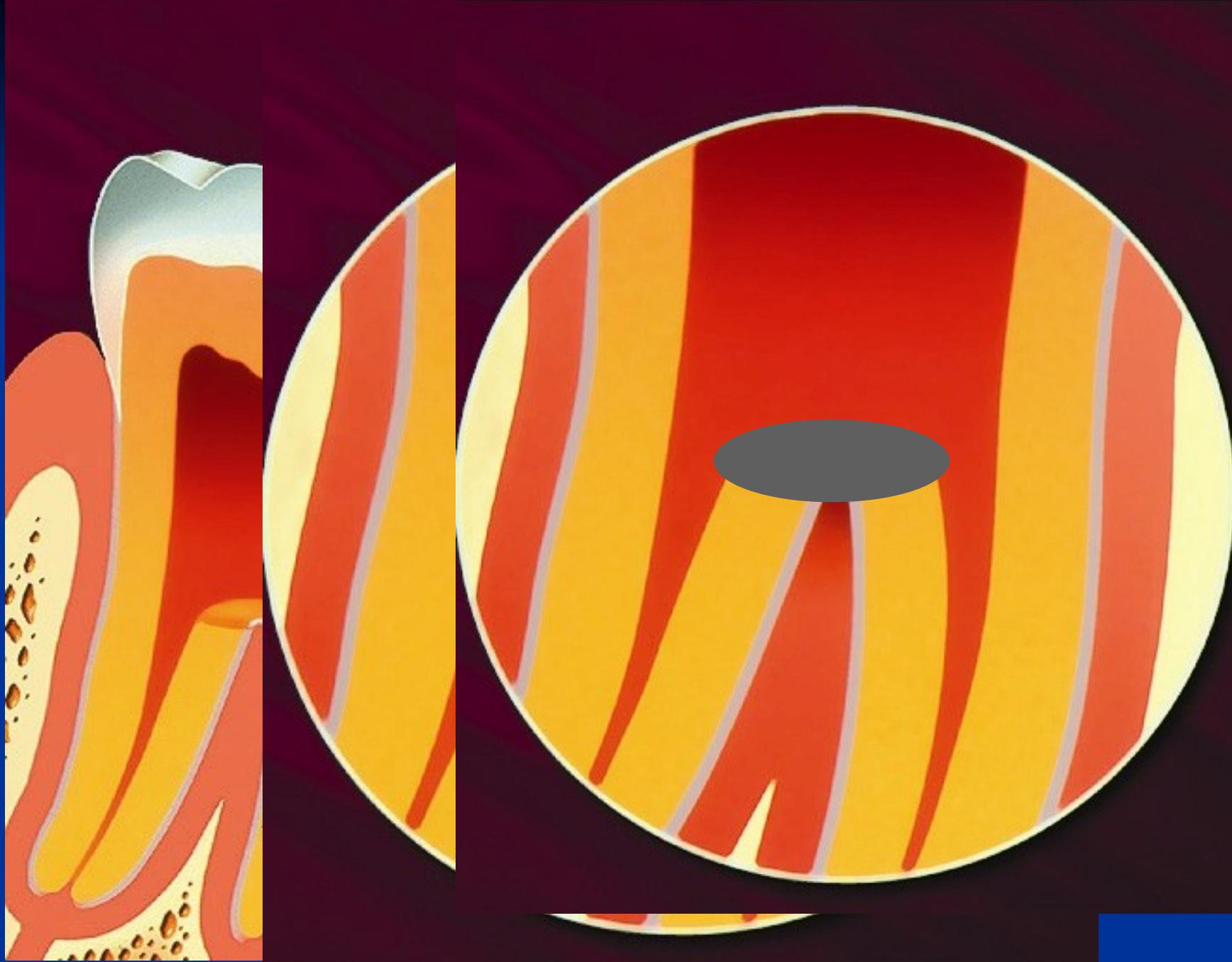


MTA

- Umožňuje hojení – dobrý okrajový uzávěr !

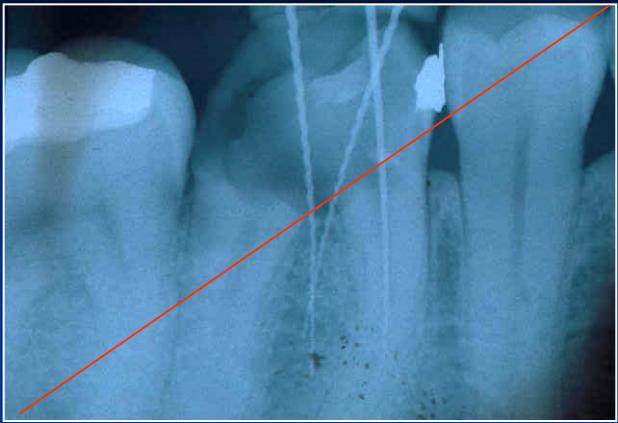
Zabraňuje přístupu mikroorganismům,
umožňuje hojení dřeně a periodoncia tvrdou
tkání.



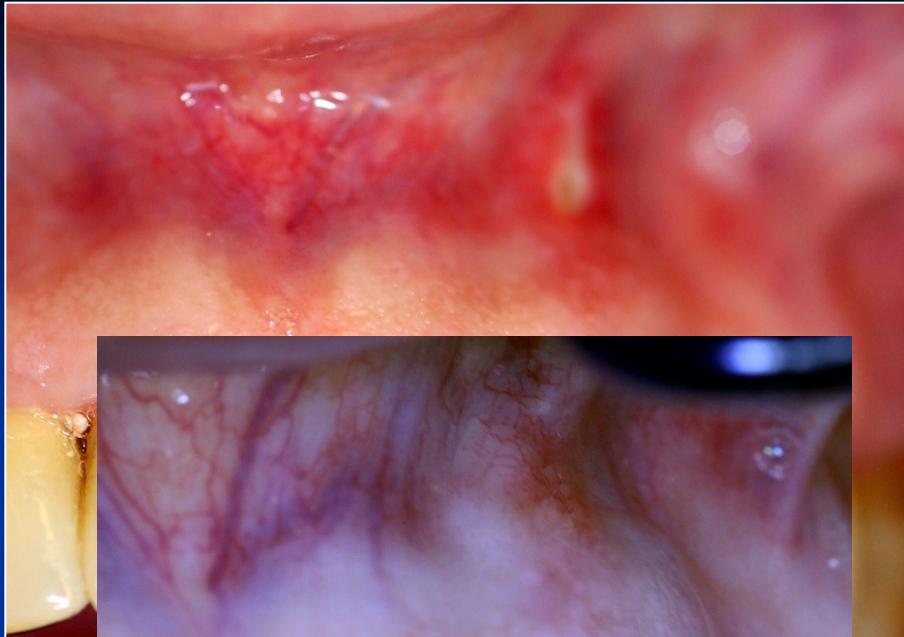


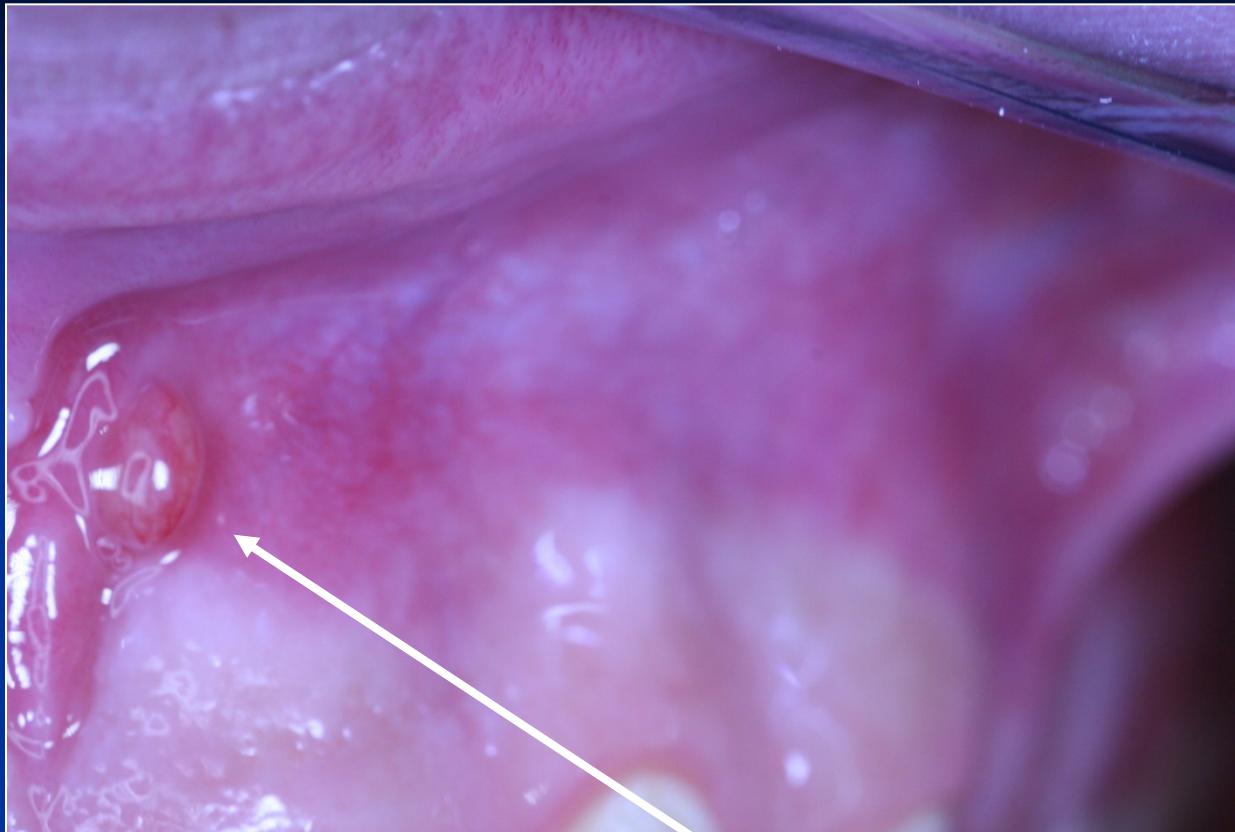
Zdroj: Manuál firmy Maillefer





Regional complications



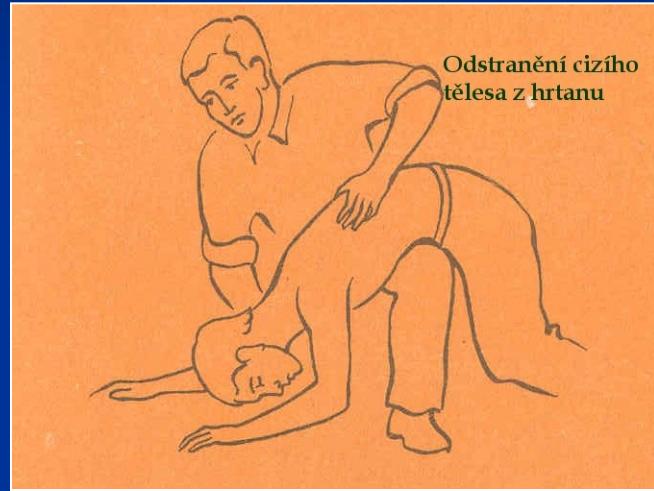


Píštěl

Systemic complications

Systemic complications

- Periostitis
- Inflammation of soft tissues (face, neck)
- Gulp of the instrument (X ray, remnant diet, information)- cough
- Aspiration of the instrument -emesis



Caution!

Always find the loss instrument !!!!!