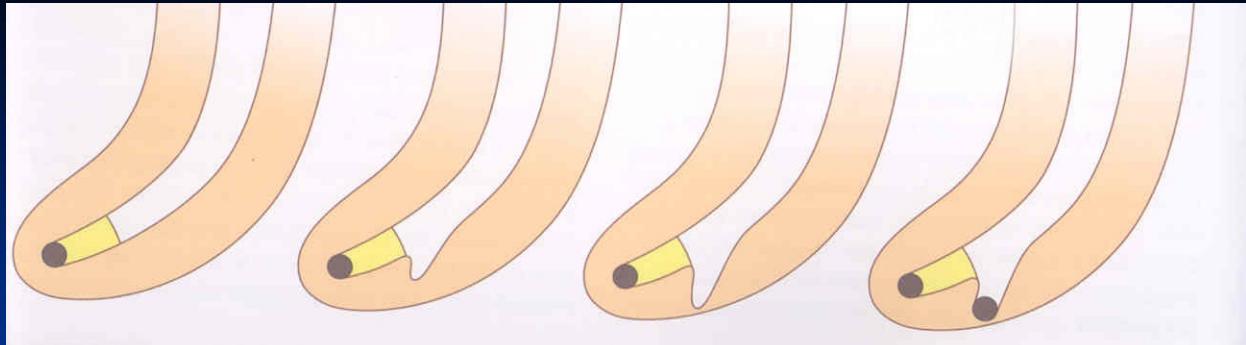


Complications of endodontic treatment

Local
Regional
Systemic



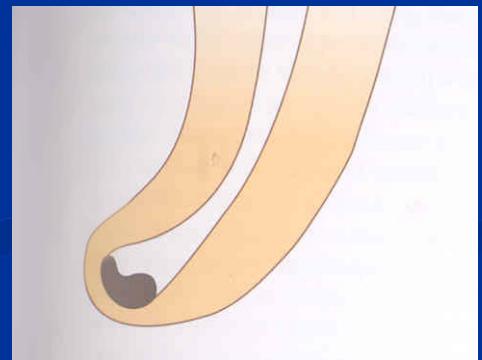
Plug of
dentin chips

Ledging

Transportation of the root canal

Via falsa

Zipping a elbow



Local complications

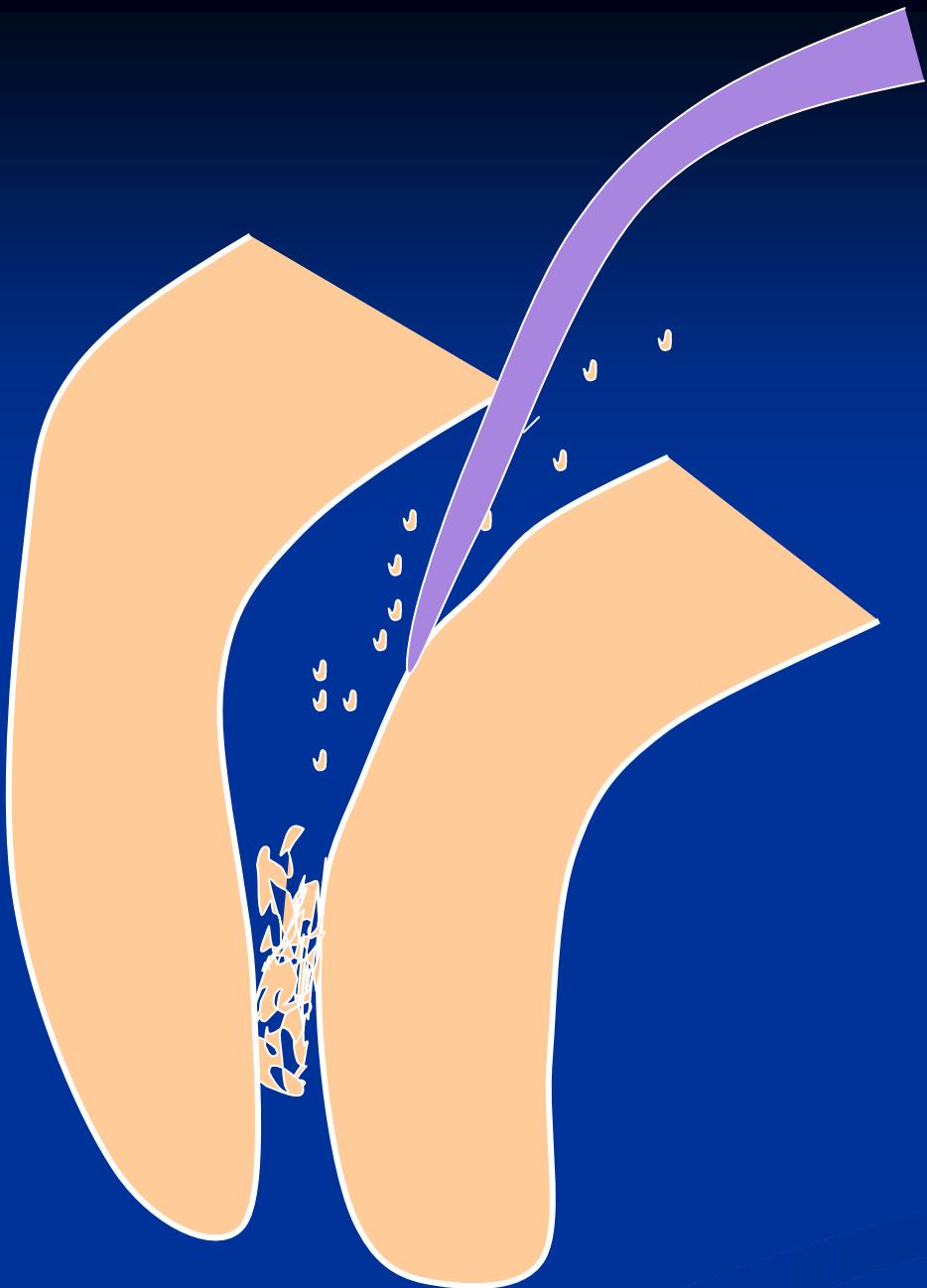
Plug



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



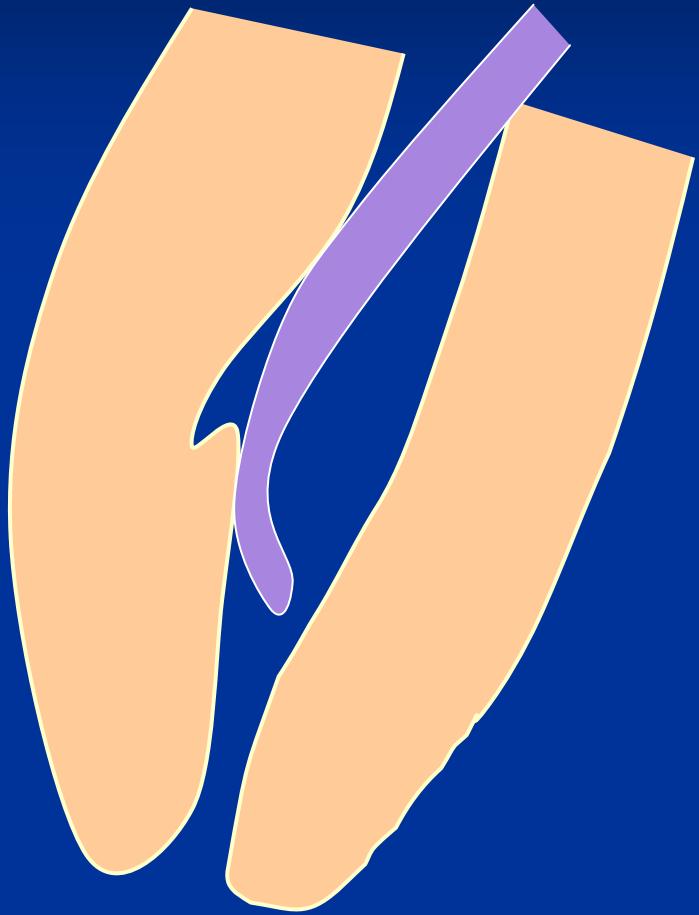
Reasons

The instrument is not bended in advance!

No control of the WL

=

No recapitulationLoss of the WL



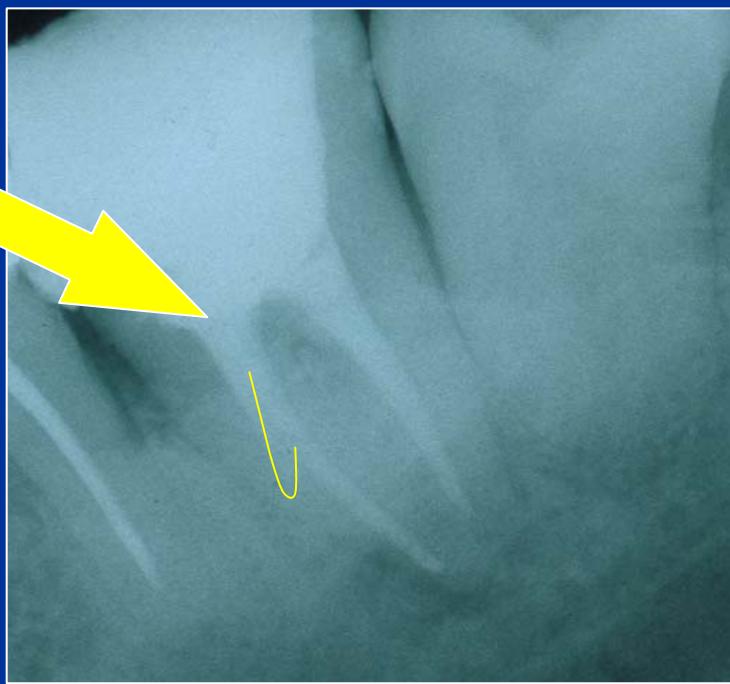
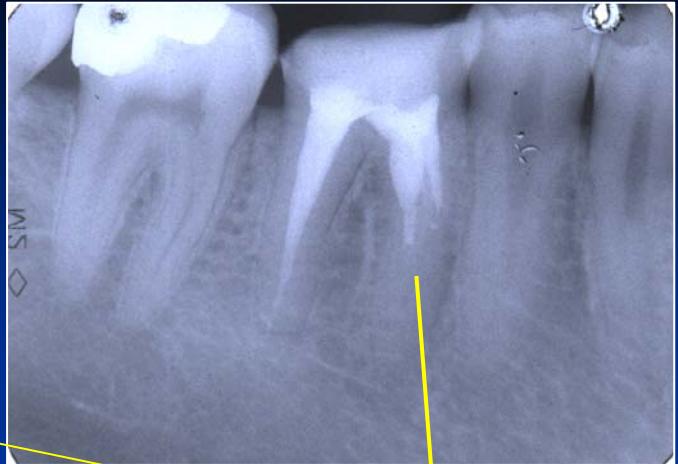
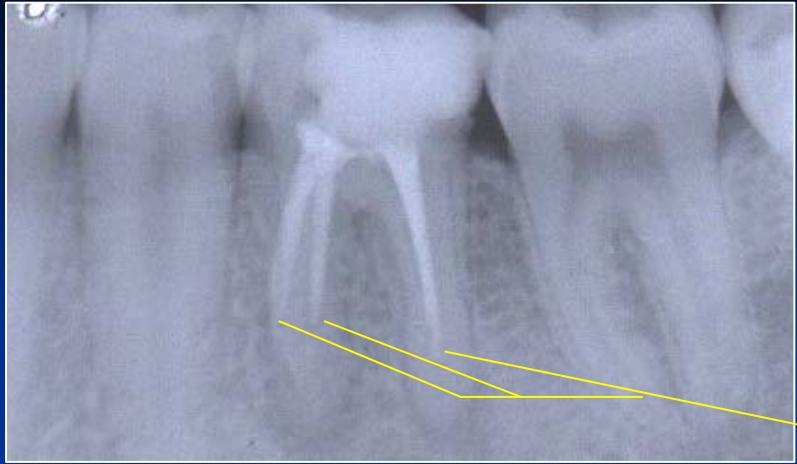
Solution

The instrument must be
bended in advance

Careful but complete rotation

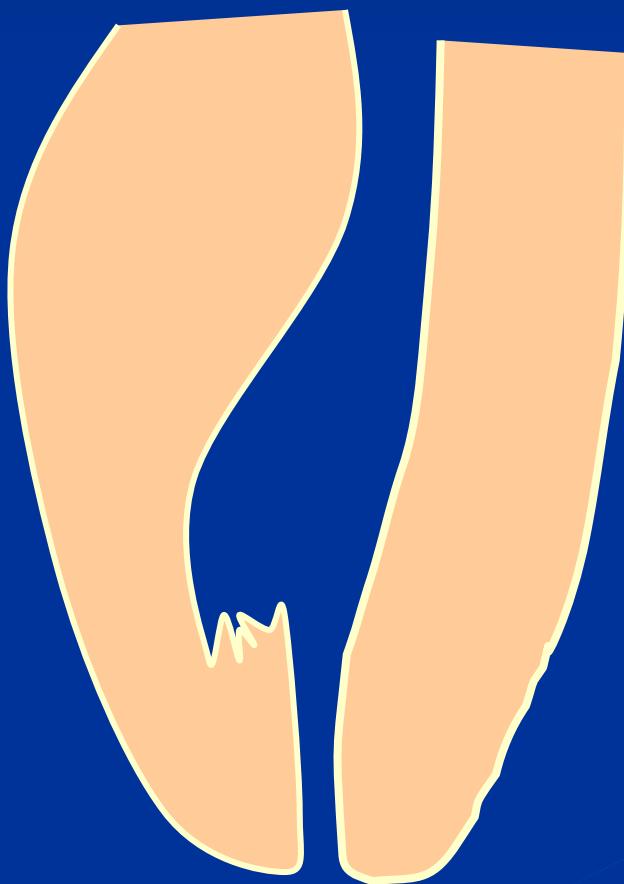
Finishing with the fine filing

No NiTi!!!



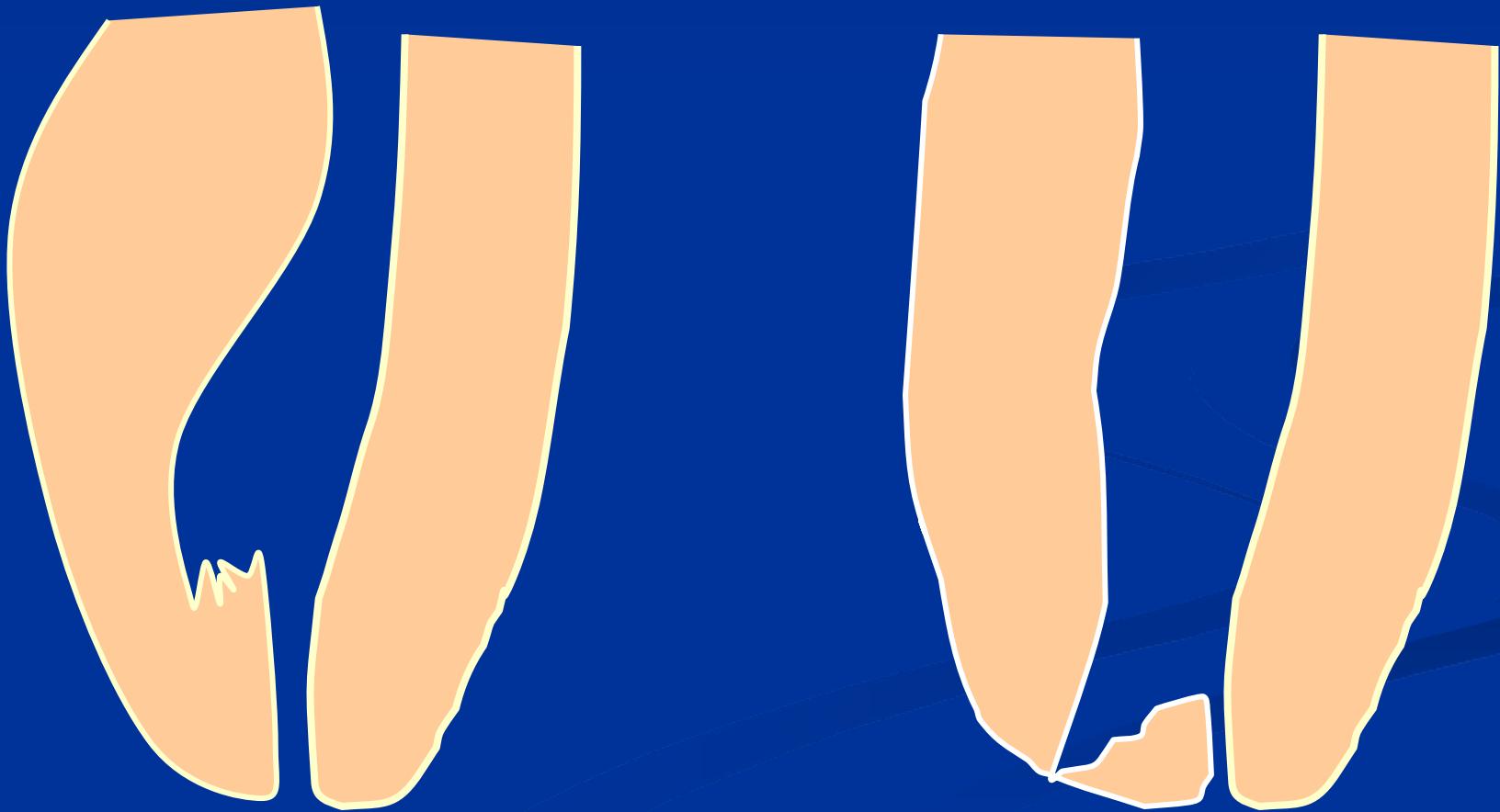
Ledging

Zipping a Elbow



The instrument is not bended in advance!

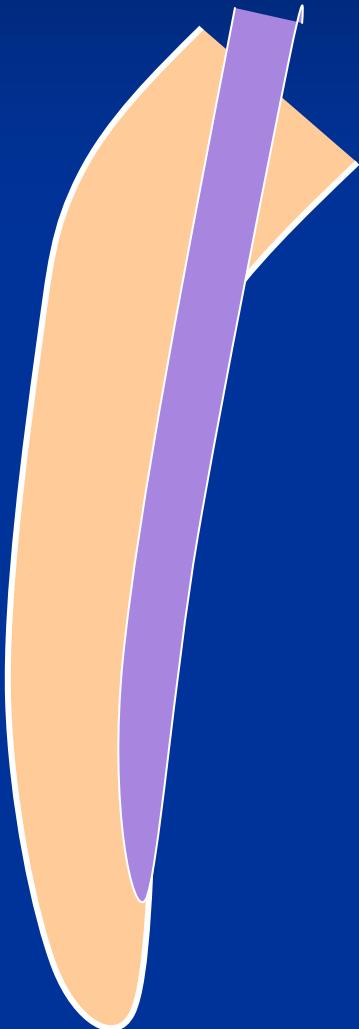
Rotation in curved canals



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

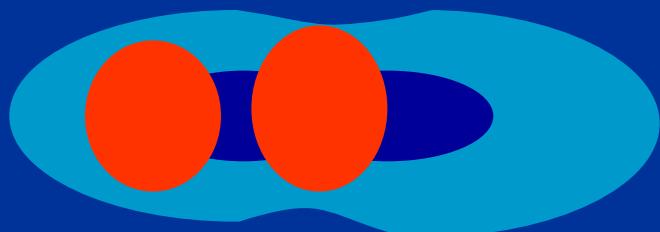
Premolars, esp. maxillary

Mandibular incisors



Oblast isthmus

Stripping



Důkladný přehled!

Šetřit oblast isthmu!

Ruční preparace!

Menší kónus NiTi !

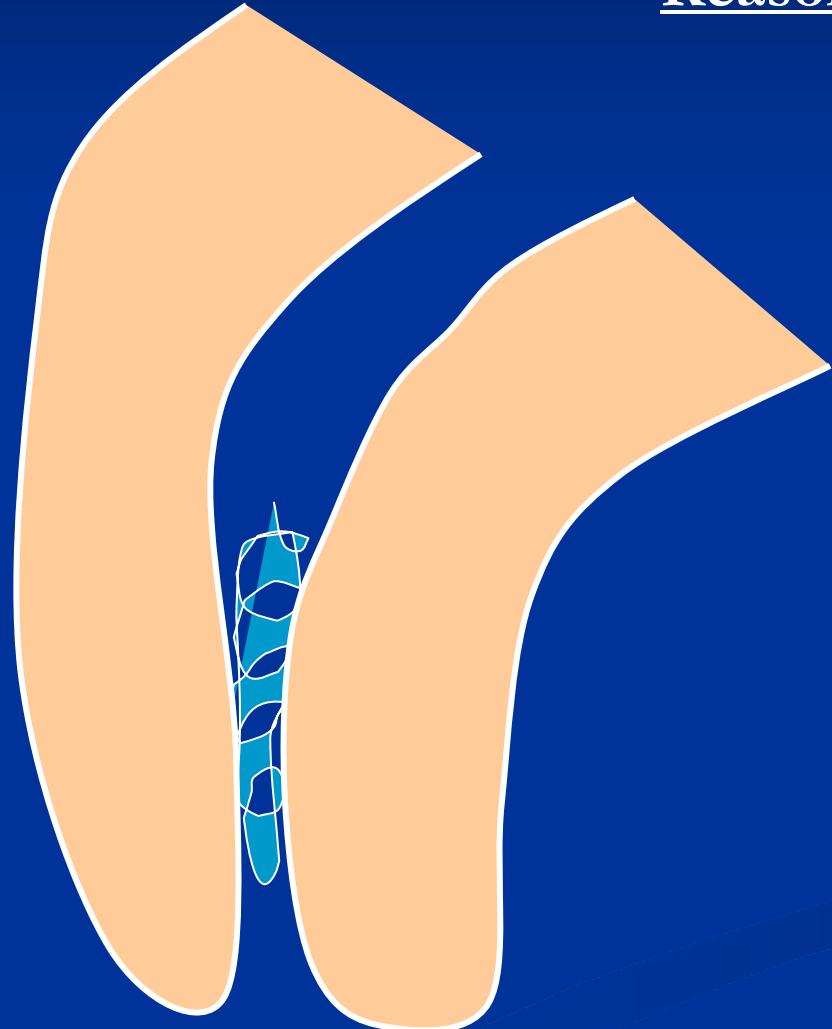
Stripping



Bend the instrument and eventually blunt it !

Fracture of the root canal instrument

Reasons



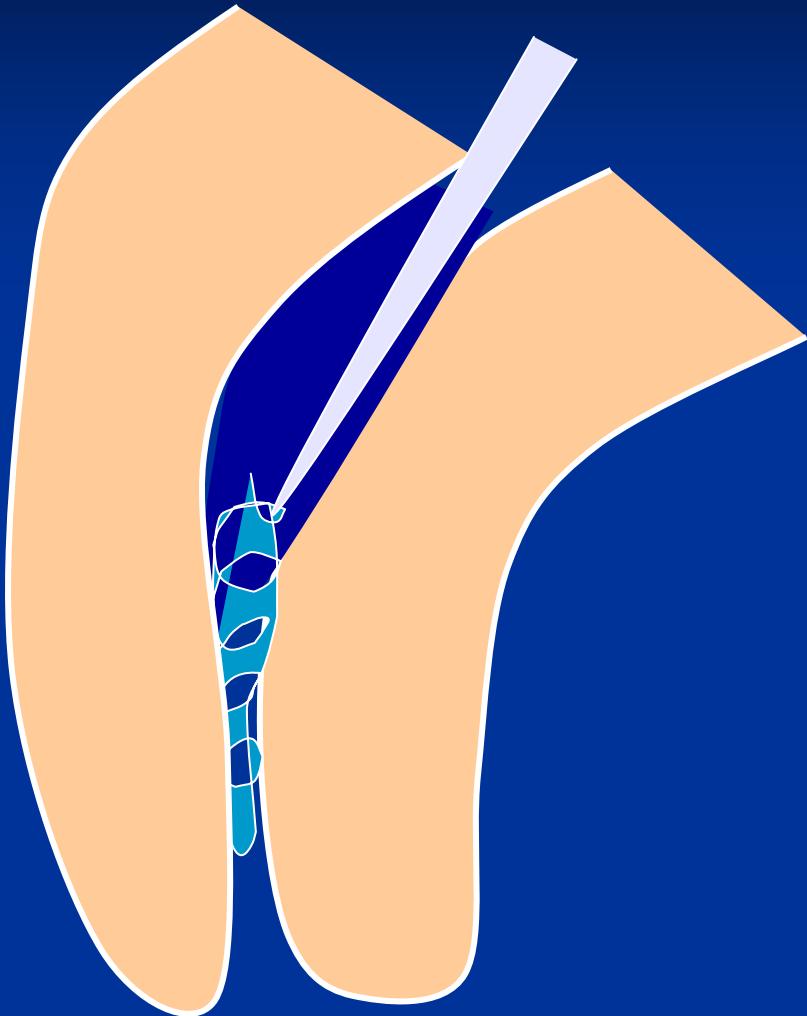
**Insufficient
coronal flaring**

**Old root canal
instrument**

Aggresive force

**Incorrect
movement of the
root canal
instrument**

Solution



Enlargement of the root canal till the instrument

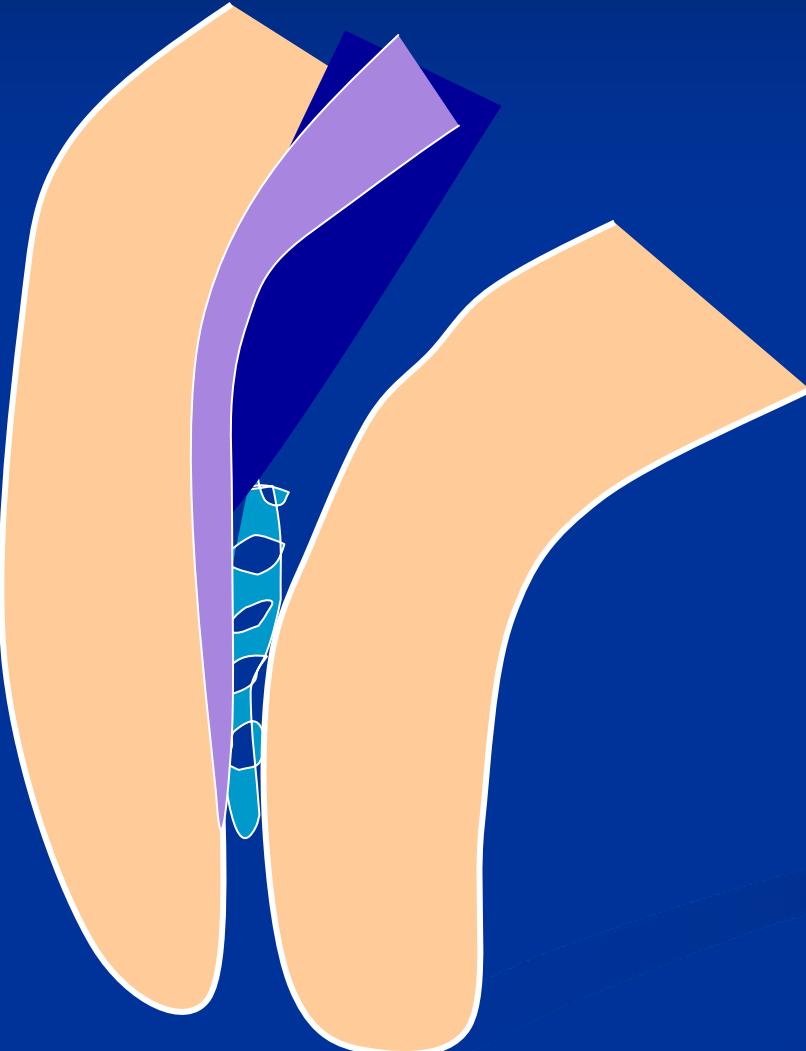
Ultrasound tips

Rotating root canal instrument – caution!

Bypass

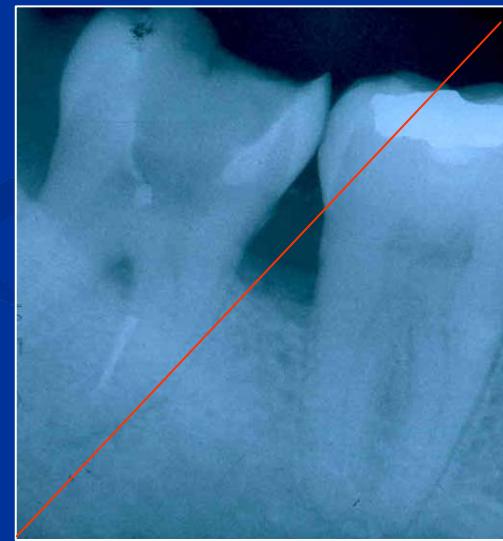
Leaving in

Surgical treatment

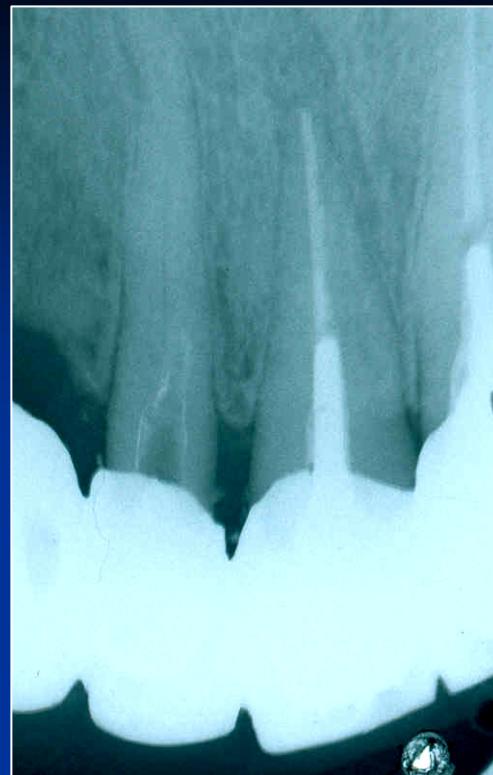
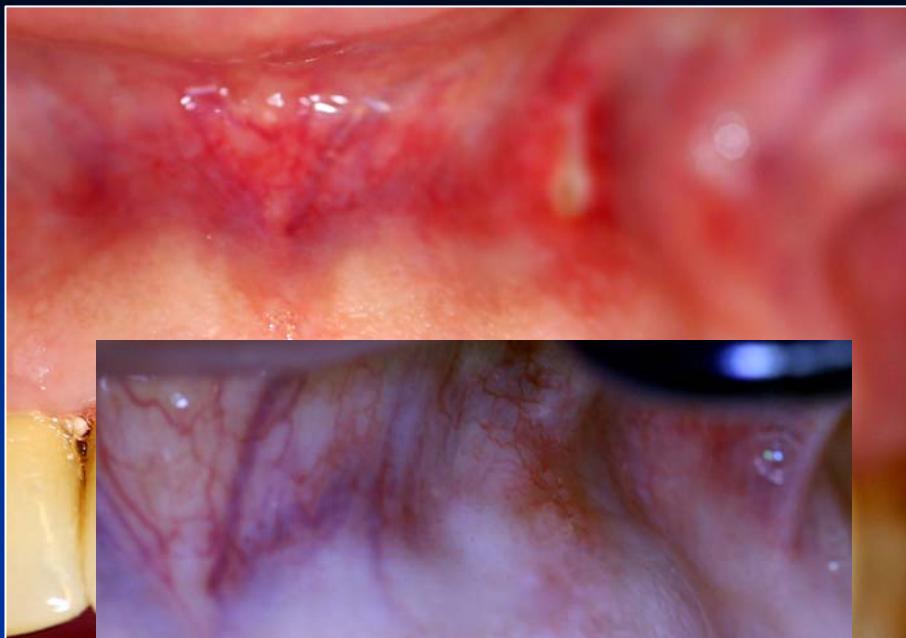


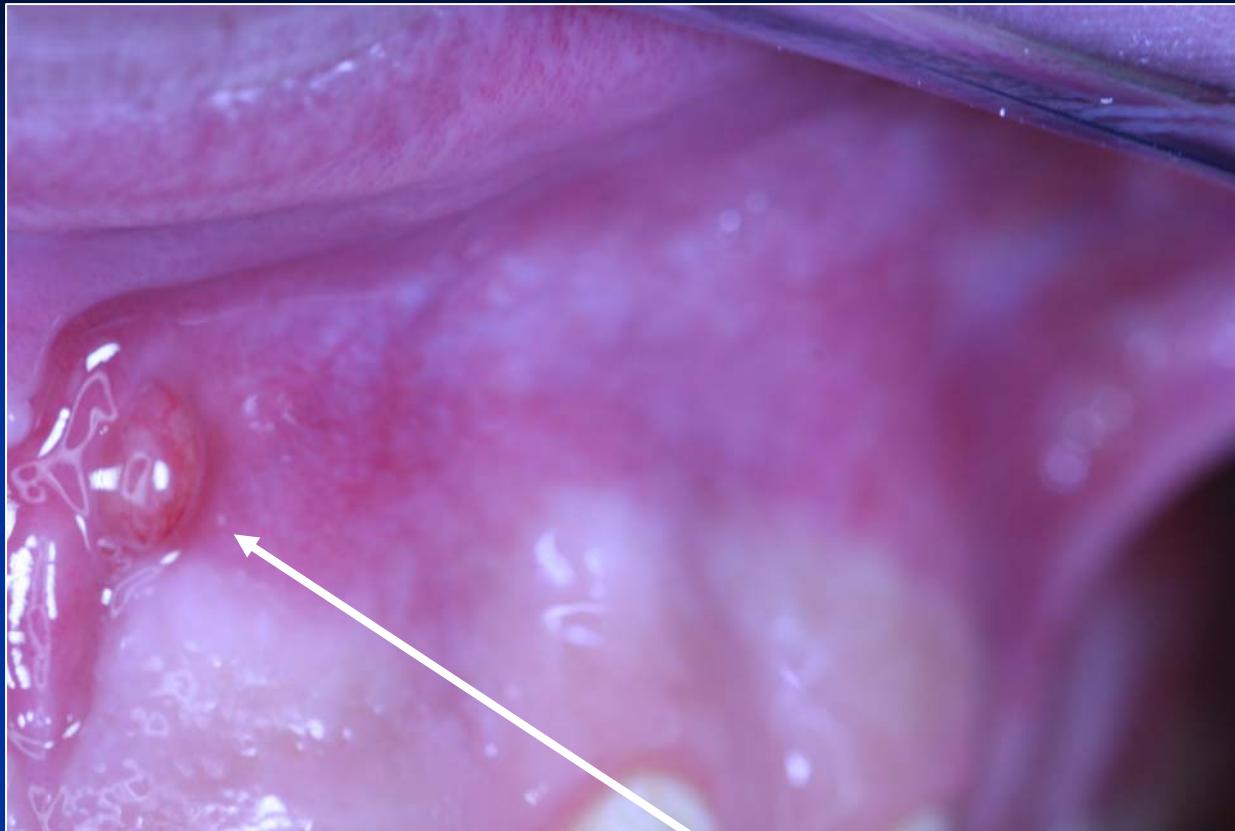
Bypass

Fractured instrument



Regional complications





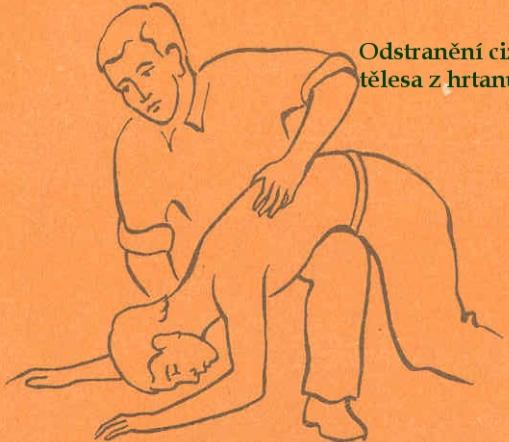
Píštěl

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

Odstanění cizího
tělesa z hrtnu



Stlačení hrudníku
ze stran



Caution!

Always find the loss instrument !!!!!