Indications and contraindications of root canal treatment



Endodontic emergencies



Dr. Zsuzsanna Tóth Ph.D.



SEMMELWEIS UNIVERSITY

Faculty of Dentistry

Dept. of Conservative Dentistry

http://semmelweis.hu



Aim of root canal therapy

> to keep healthy

> to get healthy

the periapical area

Indications of root canal treatment

- Exposed pulp
- > Irreversible pulpitis
- Hyperplastic pulpitis
- Internal resorption
- Necrotic pulp
- Acute apical periodontitis
- Chronic apical periodontitis
- Condensing osteitis
- Acute apical abscess
- Chronic apical abscess =
 - = Suppurative apical periodontitis

Indications of root canal treatment

- > Apical curettage
- > Apicoectomy
- > Intentional devitalization
- Root amputation or hemisection
- Bicuspidization

Indications of root canal treatment

- > Prosthetic indication
 - axial differencies of teeth
- > Excessive coronal destruction
 - post and core
 - post-retained restoration
- > Unsure vitality of the tooth is
- > As part of periodontal surgery
- Excessive lesion of adjacent tooth
 - before surgery

Contraindication of root canal treatment

- > Irreparable tooth
- Destruction of periodontium
- Non-cooperative patient
- Mental/physical handicapped patient
- Serious chronic illness
- Vertical fracture
- > Technical difficulties
- > Tooth without function

Aim of the treatment in emergency

- pain relief
- reconstruction of function
- reparation of esthetics

- unexpected patient
 - unscheduled office visit

> lack of time

> even so correct treatment

We are for the patient

and

no they are for us!!!

Very important is the **DIAGNOSIS**

- Medical history spontaneity intensity and duration of pain
- Subjectiv examination: source of pain: pulpal/periapical
- Inspection, percussion, sensitivity

PAIN can be of

- Endodontic
- Periodontic
- Endo-periodontal origin
- Adjacent tooth
- Neuralgiform reason

Reversible pulpitis

save the vitality

Irreversible pulpitis

Root canal treatment

Extraction

- X-ray picture = radiographic examination
- > Anesthesia
- Isolation rubber dam
- Frontal tooth _____ pulpectomy working length
 - Lateral tooth _____ pulpotomy
- Irrigation NaOCl
- Temporary restoration

- ➤ Irrigation NaOCl
- Noot canal preparation (enough time?)
- Drying the root canal
- > Intracanal medicament Ca(OH)₂
- > Temporary filling
- > Analgetics?

- Importance of documentation!!!!
- Radiographic examination
- Soft tissue lesions, injuries
- Removal of foreign objects from wound
- Severe lacerations require suturing
- Reponation of tooth...

- Exposed dentin surface
 - Ca(OH)₂
 - ZOE-cement
 - temporary crown
- Exposed Pulpa
 - to keep the vitality
 - pain releif

How to keep the vitality of the tooth

- dry the injured surface
- \rightarrow Ca(OH)₂
- ZOE cement in interim crown
- Recall, checkup

Apexification

- Radiological examination
- ➤ Isolation rubber dam
- Access opening
- > Determination of working length
- Preparation of the canal
- > Irrigation
- Drying
- **>** Ca(OH)₂
- > Interim restoration
- Regular recall

Apexification