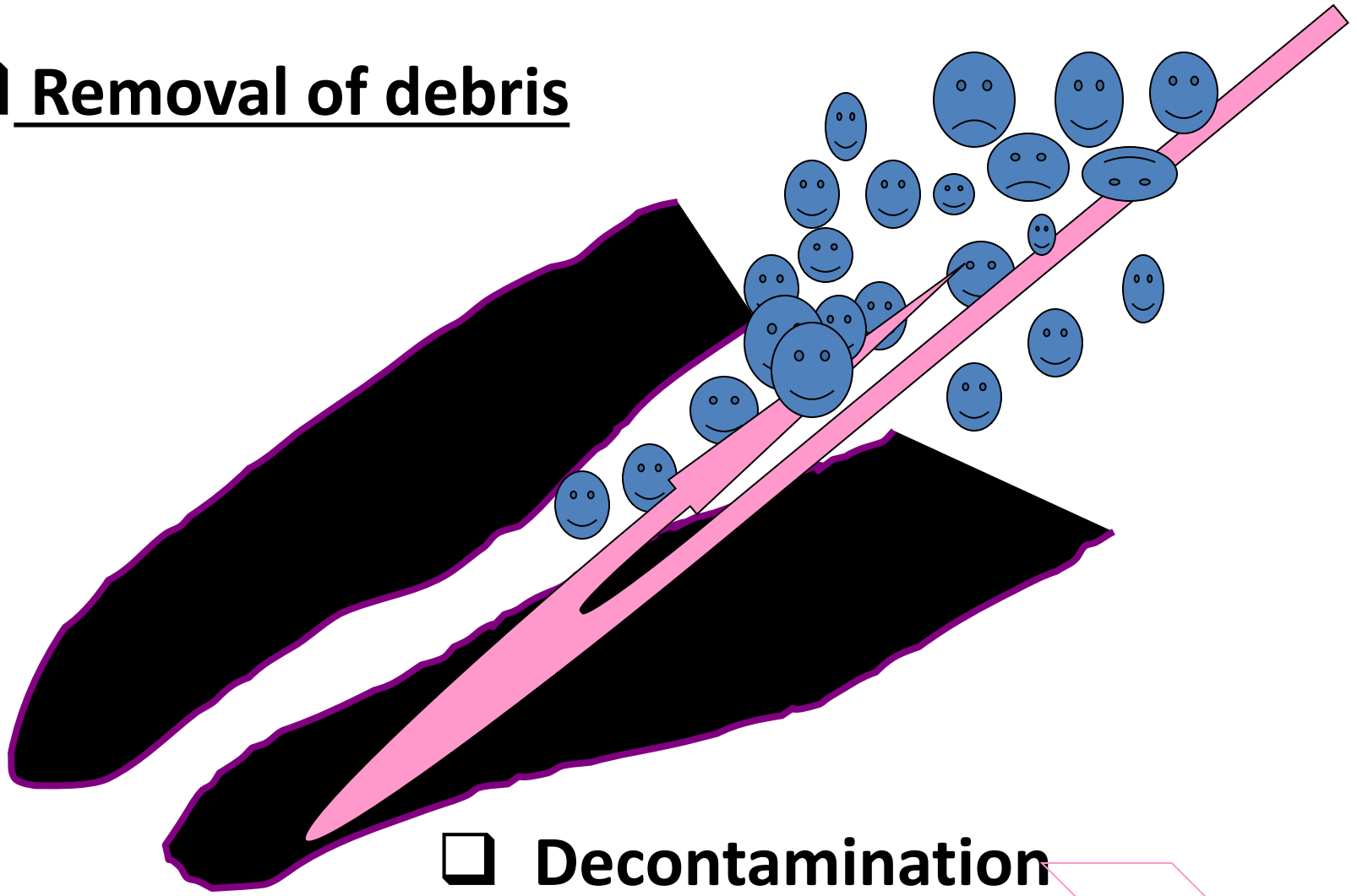


Medicaments in endodontics

- Disinfectants and antiseptics
 - Antibiotics and corticoids
 - Others
-
- Local
 - Systemic

Irrigation

Removal of debris



Decontamination



Irrigants

- Debridment
- Antimicrobial effect
- Dissolution of rests of dentapl pulp
- Removal smear layer
- Decalcification
- Lubrication

Irrigants

- **Sodium hypochlorite (1,5 – 5,5%)**
- **Chlorhexidin (0,12% - 0,2%)**
- **EDTA – etyléndiaminotetraacetic acid 17%**



Irrigants

- Sodiumhypochlorite

2 – 6%

- Oxidation a chloration
- Dissolving efect
- Bad smell, irritant.

Syringe and cannula

- Blunt, side apertures, smallest ISO 35
- No pressure



Activation of irrigation

- Increased effectivity

Vibration

Increasing of temperature

Decomposition of irrigants - dissociation





Calcium hydroxide

- Alkaline
- Antibacterial
- Stimulation of hard tissue formation
- Haemostatic and antiphlogistic

Calcium hydroxide

- Alkaline
- Antibacterial
- Stimulation of hard tissue formation
- Haemostatic and antiphlogistic

Calcium hydroxide

Temporary root canal filling

Subbase

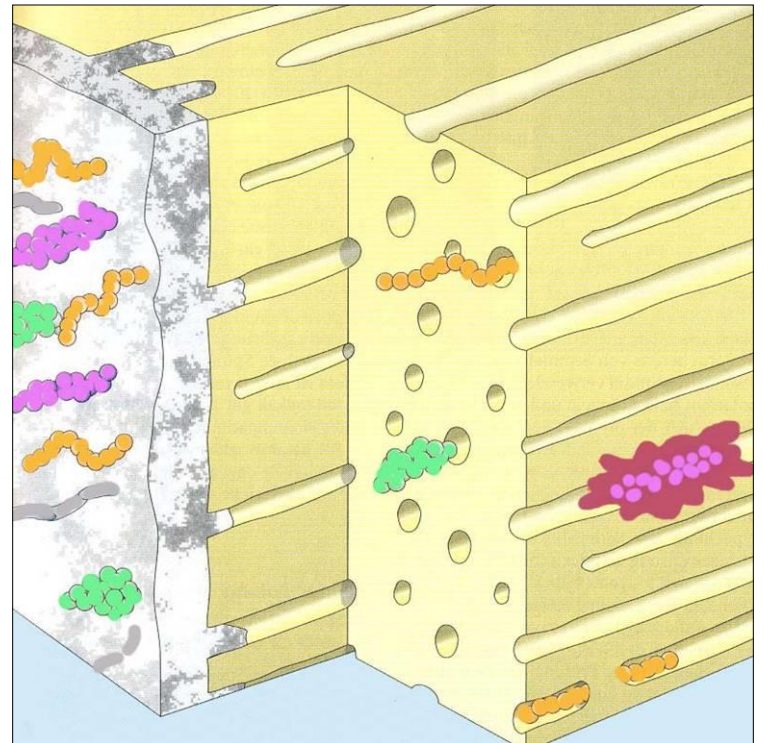
Component of sealers

Mode of action

- Release of hydroxyl ions
- Long term alkalization
- Stimulation of hard tissues formation



Dressing



Calcium hydroxide

- Short term action

1 – 2 weeks

Desinfection, haemostasis

Calcium hydroxide

- Middle term action

2 – 3 months

Apexification

Chronic form of apical periodontitis

MTA composition

- Dicalcium silicate
 - Trikalcium silicate
 - Tricalcium aluminate
 - Tetraalkalium aluminate
 - Cuprum sulphate
 - Bismuth trioxide
- = portland cement with Bi_2O_3

LOT 000724 EXP 0307

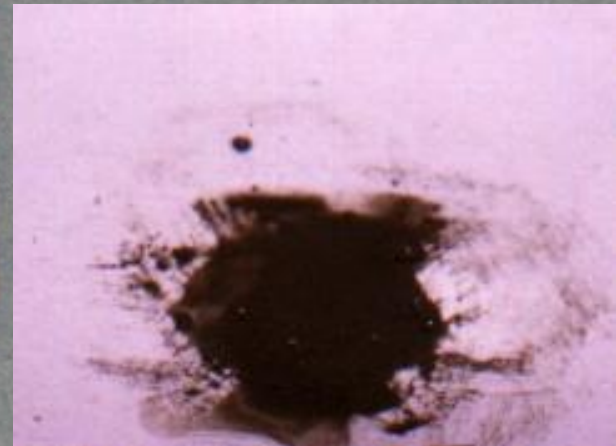
DENTSPLY

PRO ROOT™

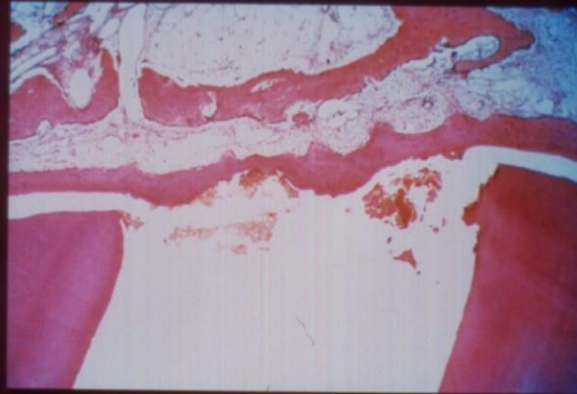
MTA (Mineral Trioxide Aggregate)
Root Canal Repair Material

Contents: 1 gram (1 treatment)

CE
0120

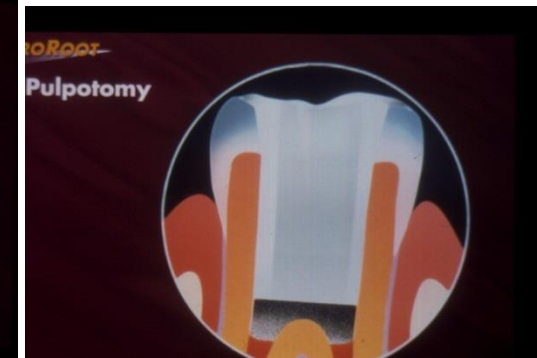
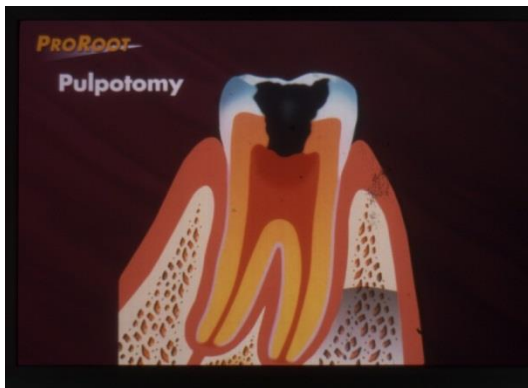
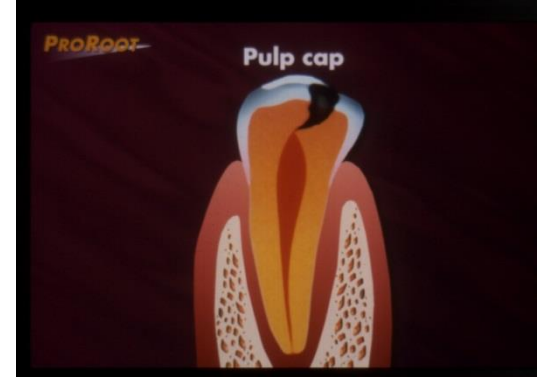


PROROOT



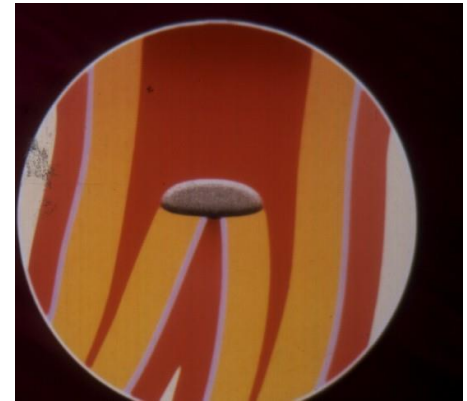
MTA

- Direct pulp capping
- Pulpotomy – treatment of the pulp



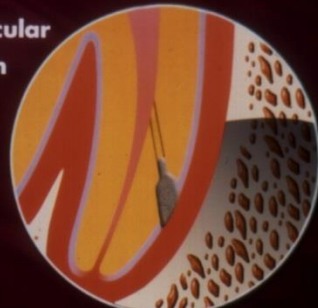
PROROOT

**Furcation
Perforation**

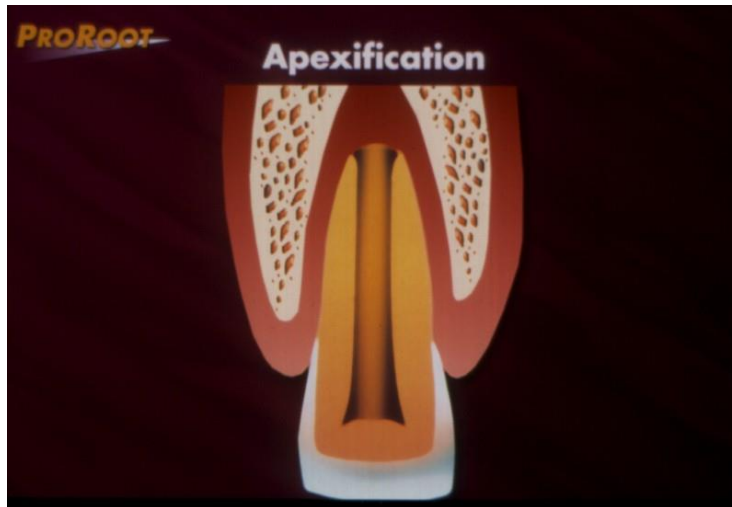


PROROOT

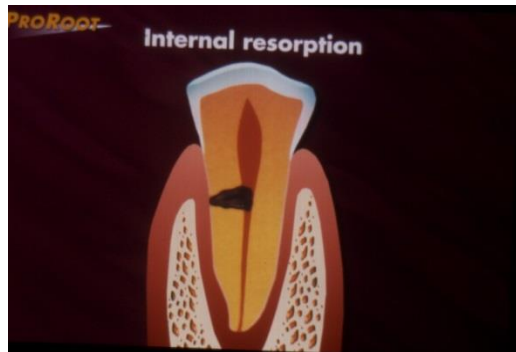
**Extra-radicular
perforation
repair**



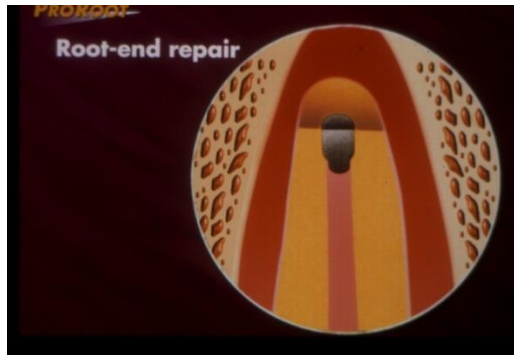
- **Apexifikation**



- **Internal and external resorption**



- **Apical surgery**



Disinfectants and antiseptics

- Sodiuk hypochloride
- Chloramine
- Chlorhexidine
- Hydrogenium peroxide
- Phenolic based
- Formalin

Phenolic based antiseptics

- Phenol
- Camphor
- Ethanol

Dezinficiencia a antiseptika

- Chlumského roztok
- Trikresolformalin

Antibiotika a kortikoidy

Bacitracin, Neomycin.

Dexametason, Triamcinolon.

- Septomyxin
- Ledermix

Devitalization - pastes

- Based on paraphormaldehyd,
Anaesthetics, vehiculum.

10 – 14 days.

Antibiotics and corticoids

- Combination – pastes

Antimicrobial effect

Decreased inflammation and immunologic response