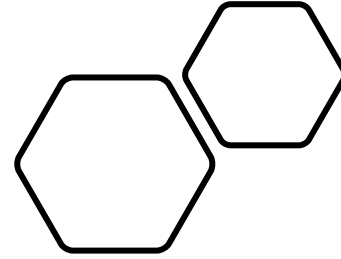


# Prevention of caries



Knowledge of aethiology  
and pathogenesis od dental  
caries

# Primary prevention

Set of measures that avoid origin of the disease

Primary prevention of dental caries:

Proper oral hygiene

Proper diet

Pit and fissure sealing

# Secondary prevention

Set of measures that lead to early diagnosis of the disease and complete recovery

Secondary prevention of dental caries

Management of the initial caries lesion

Together with good oral hygiene and diet

## Tertiary prevention

Set of measures that avoid the recurrent diseases

Tertiary prevention of dental caries: proper treatment (preparation and filling)

# Proper oral hygiene

- Home
- Professional





Tooth brush

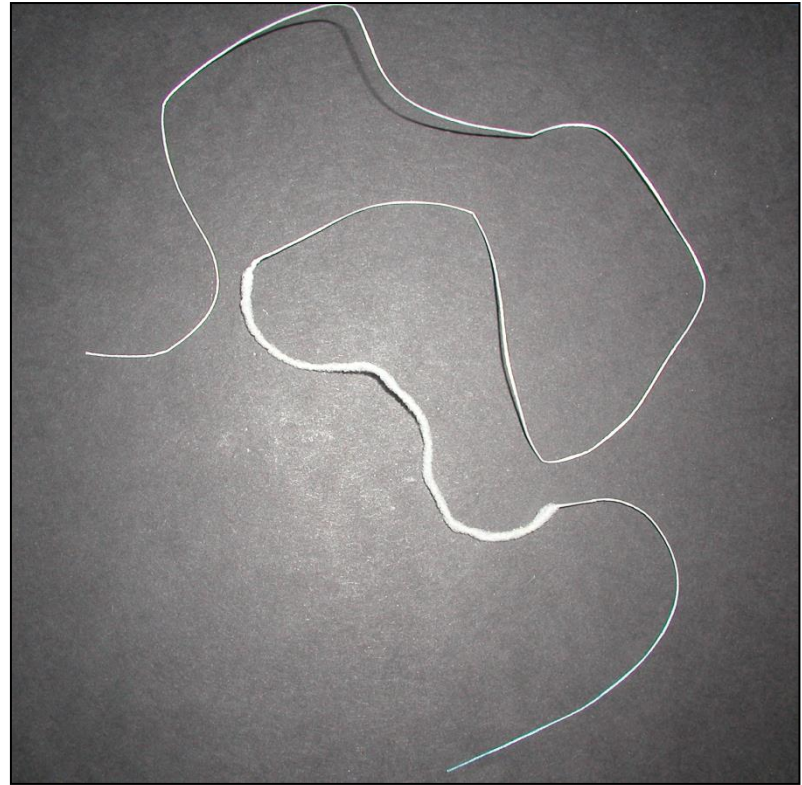
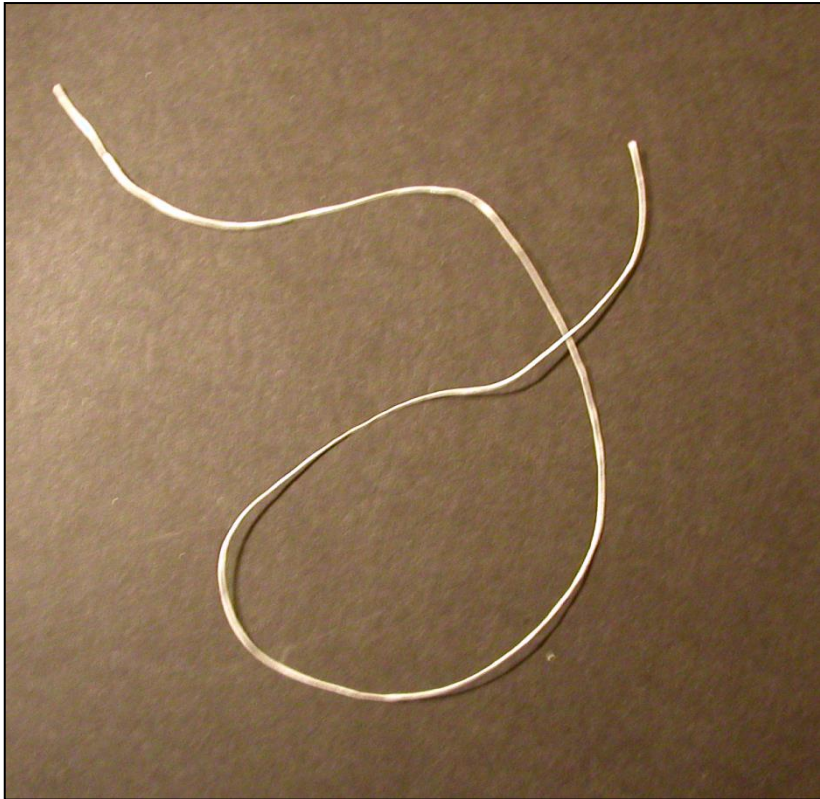


Solo tooth brush









# Mouth shower



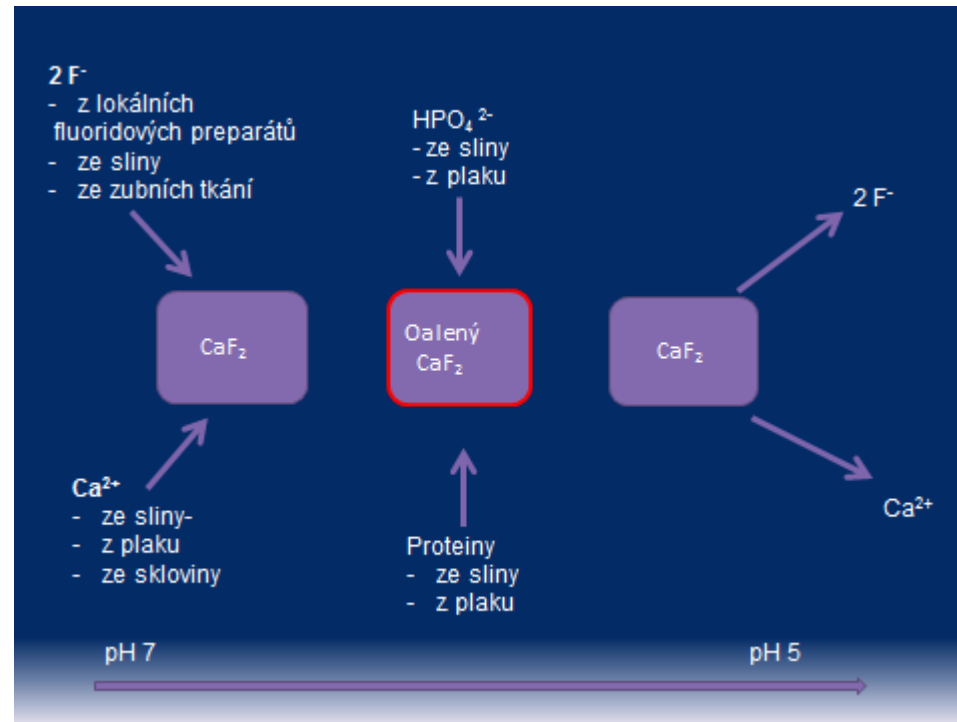
aterik



# Toothpastes



# Fluorids



# Fluorides - mode of action

Reaction with calcium of hard dental tissues – calcium fluoride – a source for remineralization

Enamel with fluoride ions is less sensitive to acid attacks

# Fluorides

- Sodium fluoride - for mouth washes, component of gels and toothpastes
- Tin fluoride – a component of toothpastes and gels
- Monofluorophosphate – in toothpaste
- Aminofluorides

# Fluoride gels

- 1 g Elmex Gele: aminfluorida mixta 33,19 mg (olaflurum 30,32 mg, dectafurum 2,87 mg), natrii fluoridum 22,10 mg (odpovídá 12,5 mg fluoridu).

1x týdně







# Fluoride varnishes

Duraphat®

Colgate Oral Pharmaceuticals

Fluorid sodný 5 %  
etanol

Fluor - Protector®

Ivoclar Vivadent

Difluorsilan 1 % polyuretan

ethylacetát

Flor - Opal®

Ultradent

Fluorid sodný 5 % xylitol

Bifluorid 12®

VOCO

Fluorid sodný  
6 % fluorid vápenatý 6 % kolodium

ethylacetát

Fluoridin®

VOCO

Fluorid sodný 6 % fluorid vápenatý 6 % kolodium

ethylacetát

Fluoridin N 5®

VOCO

| sodný 5 % etanol etylcelulóza

Multifluorid®

DMG

| sodný 2,2 % olafluor 3 %

kolodium

ethylacetát



**Kasein - Fosfopeptid**

**Amorfní kalcium fosfát**

**+**

**Fluoridy**

**MI Paste Plus**



Recaldent  
CPP - ACP

Kasein phpsosphopeptid

Derivate from protein of cow's

Remineralization

# Ozone and warnishes with chlorhexidine



# Sweeteners

# Xylitol

- Artificial sweetener
- Natural presence: fruit, vegetable, wood (burch tree), in human body occurs by glucose metabolism
- 40% lower caloric value in comparison to sugar

# Xylitol- mode of action

- Transport into microbial cell
- The microb cannot metabolize it

# Steviol glycosides





**Kasein - Fosfopeptid**

**Amorfní kalcium fosfát**

**+**

**Fluoridy**

**MI Paste Plus**



Recaldent  
CPP - ACP

Kasein phpsosphopeptid

Derivate from protein of cow's

Remineralization

# Fluoride varnishes

Duraphat®

Colgate Oral Pharmaceuticals

Fluorid sodný 5 %  
etanol

Fluor - Protector®

Ivoclar Vivadent

Difluorsilan 1 % polyuretan

ethylacetát

Flor - Opal®

Ultradent

Fluorid sodný 5 % xylitol

Bifluorid 12®

VOCO

Fluorid sodný  
6 % fluorid vápenatý 6 % kolodium

ethylacetát

Fluoridin®

VOCO

Fluorid sodný 6 % fluorid vápenatý 6 % kolodium

ethylacetát

Fluoridin N 5®

VOCO

Fluorid sodný 5 % etanol etylcelulóza

Multifluorid®

DMG

Fluorid sodný 2,2 % ol fluor 3 %

kolodium

ethylacetát



# Pit and fissure sealing

- Principle:
- Fissures and pits are filled with special material based on resin that fills them and avoid acid attacks.

# Fissure sealing

