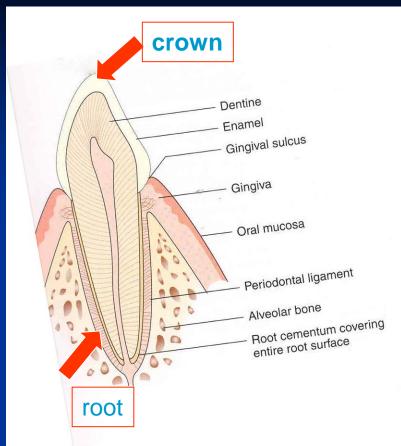
Periodontology

Etiology
Pathogenesis
Diagnosis
Therapy prevention

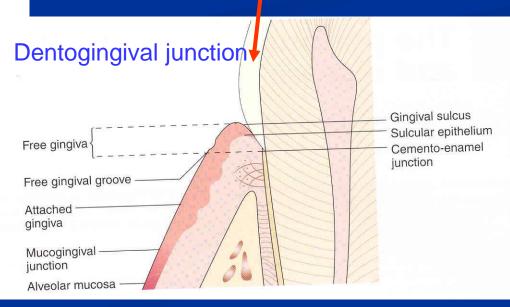
Periodontology

- Periodontal tissues (supportive tissues)
- alveolar bone
- > cementum
- > periodontal ligament
- > gingiva



Morphology

Supportive tissues



Periodontal diseases

Etiology

Local factors

Systemic factors

Local factors

- Dental plaque (biofilm)
- Dental calculus
- Bad fillings
- Overhangs
- No contact poing
- Not polished (esp. Composite) fillings

Local factors

Bad made crowns and prothesis

Mucosal disorders – frenum

■ Trauma (bad occlusion)- high fillings

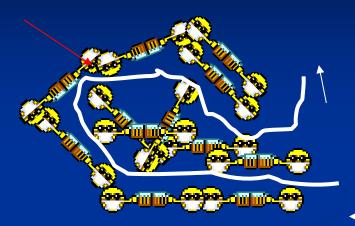
Systemic factors

Genetic disposition

Systemic diseases (diabetes, blood diseases, others)

Dental plaque = biofilm

Comunity



Primitive circulation



More species
Higher metabolic activity
Higher resistance
(S. sobrinus CHX 300x, AF 75x)

better conditions to survive higher virulence

Biofilm

Adherence

Colonisation

Maturation









Can it be recognised and removed easily?





Plaque detection

- Special liquids
- Tablets
- Gels





Dental calculus





High insertion of labial frenum



Periodontal diseases

Plaque associated

Plaque modulated

Parodontopathies

Gingivitis

Plaque associated gingivitis



Chronic form

Erythema
No pain
Easy bleeding
Plaque on the tooth

Acute form

Erythema
Pain
Easy bleeding
Plaque on the tooth

Acute necrotisans gingivitis - ANUG

Necrotizing ulcerative gingivitisAetiology

Special microbs - anaerobs

The clinical picture

Gingival inflammation and destruction

Severe pain, bleeding gums, halitosis





Atrophic or desquamative gingivitis

Erythema on free gingiva – loss of the epithelium

Variety of symptoms: itching, tenderness of

eating, burning.



Hyperplastic gingivitis

High standard of oral hygiene must be achieved!

Gingivectomy (drugs induced)



Parodonthopaties

- Chronic periodontitis.
- Aggressive periodontitis.
- Periodontitis as a manifestation of systemic disease.
- Necrotizing periodontal diseases.
- Abscesses of the periodontium.
- Periodontitis associated with endodontic lesions.
- Development or acquired deformities and conditions.

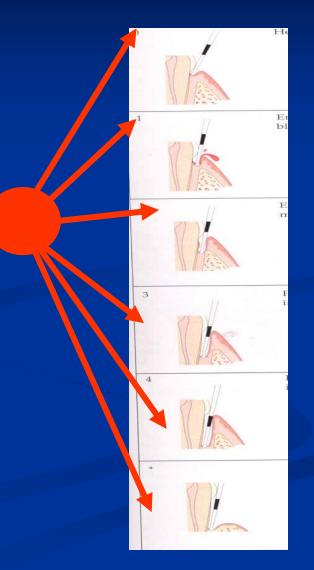
- Gingivitis
- Pocketing
- Loss of alveolar bone
- Drifting and mobility
- Furcation exposures
- Recession



- Gingivitis
- Pocketing incrfeasing depth of gingival sulcus
- Loss of alveolar bone
- Drifting and mobility
- Furcation exposures
- Recession

- Gingivitis
- Pocketing
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- Gingivitis
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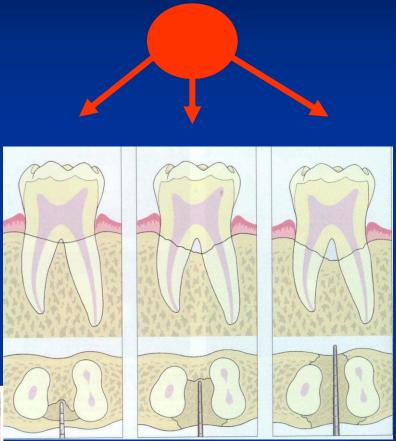


- Gingivitis
- Pocketing
- Loss of alveolar bone
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- Gingivitis
- Pocketing
- Loss of alveolar bone
- Drifting and mobility
- Furcation exposures
- Recession



Chronic adult periodontitis

Agressive periodontitis

Early onset periodontitis

Diagnosis

- History
- Clinical examination
- Level of oral hygiene
- Periodontal status

Radiography

Investigative instruments in periodontology

- Periodontal probes
 - blunt (no damage of periodontal ligament)
- calibrated (measurement of depth od sulcus or pocket)
- Some with the ball at the end (tactile investigation calculus)

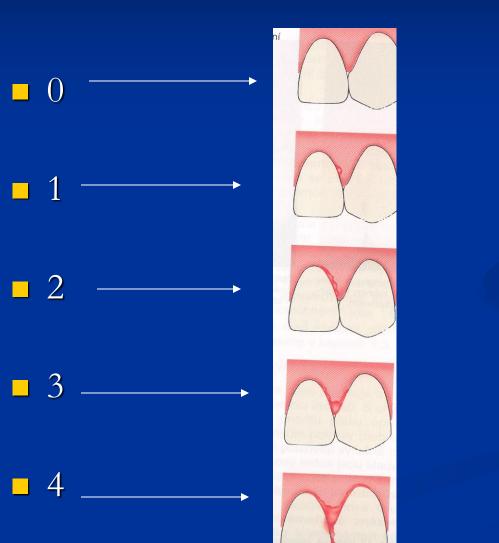
Investigation - indexes

Number characteristic of status of periodontal tissues – figures give us the orientation :

PBI Index

CPITN Index

PBI – papilla bleeding index



No bleeding

Point

Line

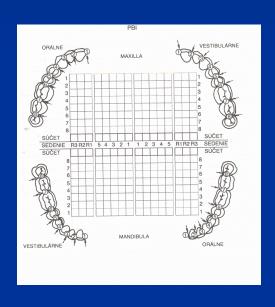
Triangl

Drop



Importance

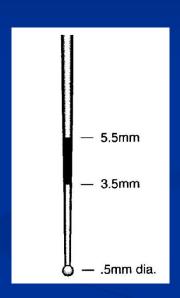
Sume divided with number of investigated points - figure



1	2	
1 3 3 2	2	
3	1	
2	2	
1 0	0	
0	2	
2	3	
<u>12</u>	<u> 14</u>	52:28= 52/28
1 2	1	
2	2	
0	4	
0 3 2	3	
3	4	
2	3	
1	0	
a	17	

CPITN

WHO probe
Slight pressure
Around the teeth
Wait 1 min



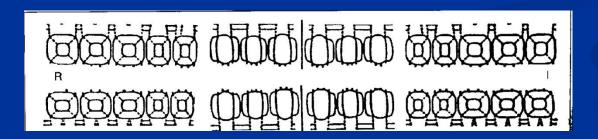
CPITN

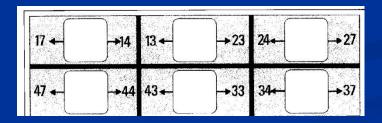
- 0 no bleeding
- 1 bleeding
- 2 dental calculus
- 3 periodontal pocket 3 5 mm
- 4periodontal pocker deeper than 5 mm

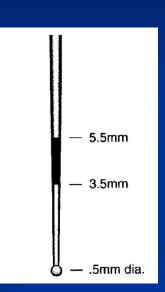
CPITN

(Comunity periodontal index of treatment needs)

Kód	Nález	Potřeba ošetření	
0	normální	0	bez potřeby léčení
1	krvácení po sondování	1	hygienická instruktáž
2	supra- nebo subgingivální	П	Collection with
	zubí kámen, iatrogenníí		
	marginální dráždění		l + supra- a subgingivální
3	choboty 3,5-5,5 mm		scaling
4	choboty > 6 mm	10	I + II + chirurgická léčba





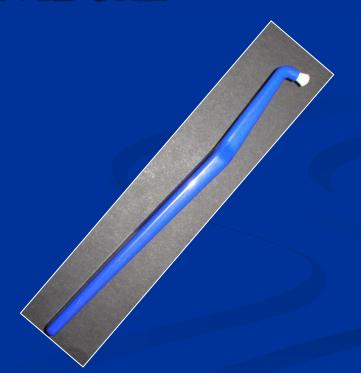


CPITN

- 0 -no therapy
- 1 bleeding improve oral hygiene
- 2 dental calculus professional oral hygiene, home care
- 3 periodontal pocket 3 5 mm complex periodontal therapy – more conservative
- 4periodontal pocker deeper than 5 mm –
 complex periodontal therapy including surgical

■ 1. Oral hygiene - professional, home care INDIVIDUAL

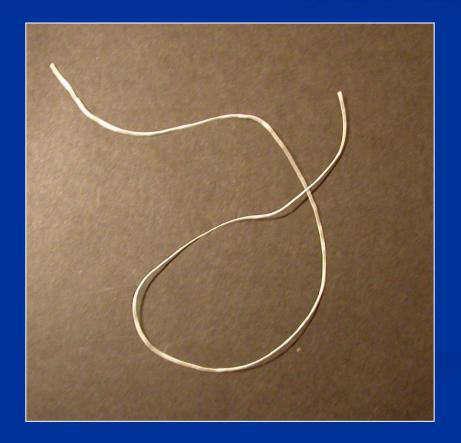




1. Oral hygiene - professional, home care



■ 1. Oral hygiene - professional, home care INDIVIDUAL

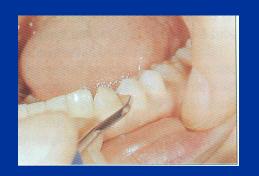




Scalers

sharp pointed instruments removal supragingival calculus only



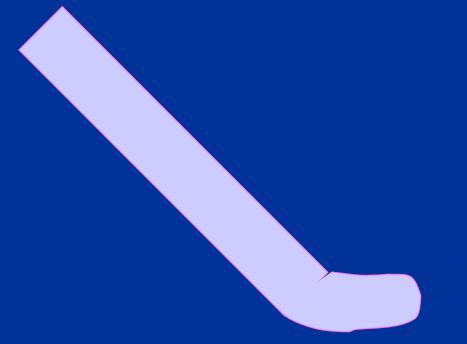


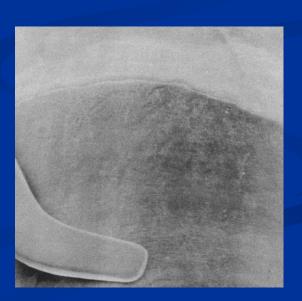






Sonic and ultrasonic scalers





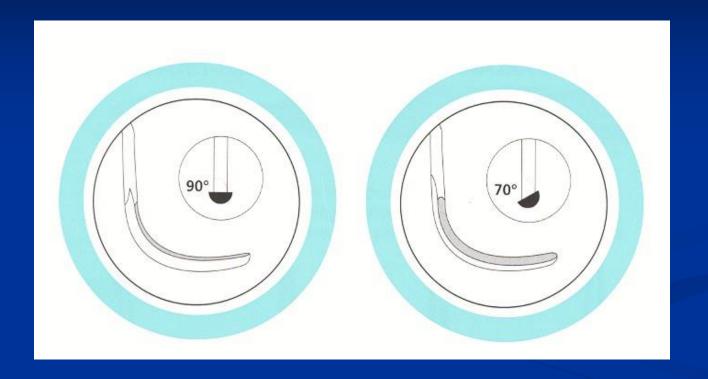
Air flow



Currettes

- Sharp spoons for subgingival treatment
- Not pointed
- Two sharp blades universal
- One sharp blade special

Universal and special currette



Universal
Working part and shaft 90°
Cut also soft tissue

Special
Working part and shaft 70°
Clean only root of the tooth





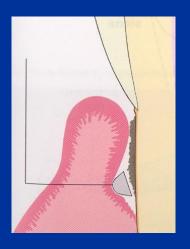


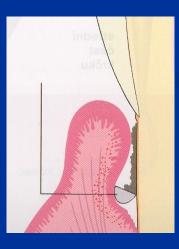


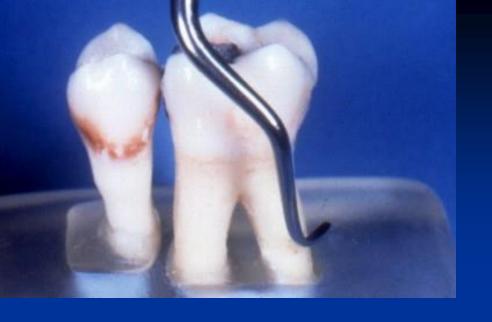


Scaling, root planing

Action of the currette













Oral hygiene

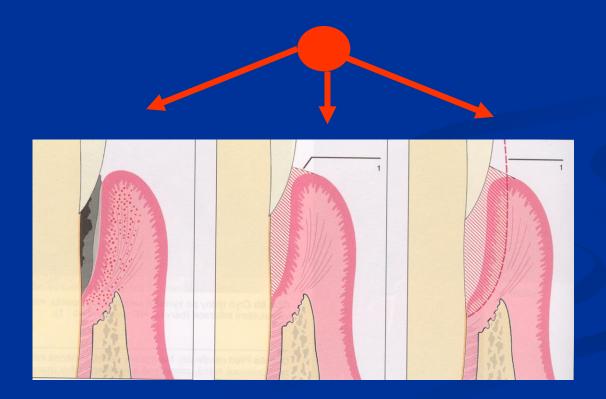
Scaling – root planning

Surgery

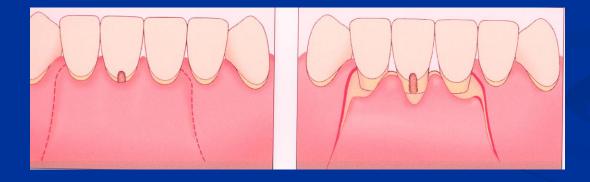
Prosthetic treatment

Recall

2. Subgingival treatment – scaling root planing,
 curettage



■ 3. Periodontal surgery

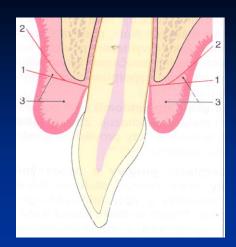


Gingivectomy, gingivoplasty

Indications of gingivectomy

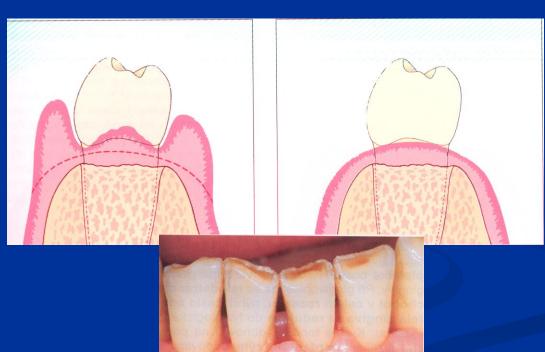
- > Hyperplasia gingivae (pseudopockets)
- Supraalveolar periodontal pockets with the horizontal bone resorption
- > Bad configuration of the gingival margin or papilla fol. ANUG or extraction.

Gingivectomy



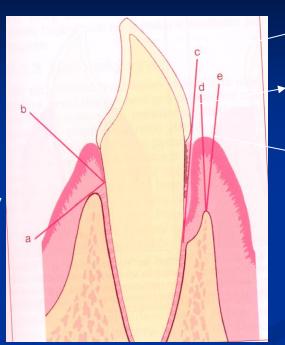


Gingivoplastic

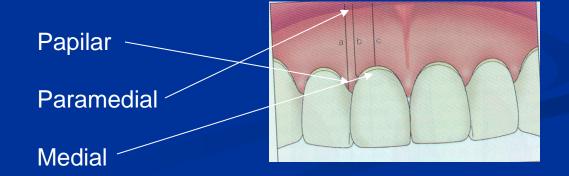


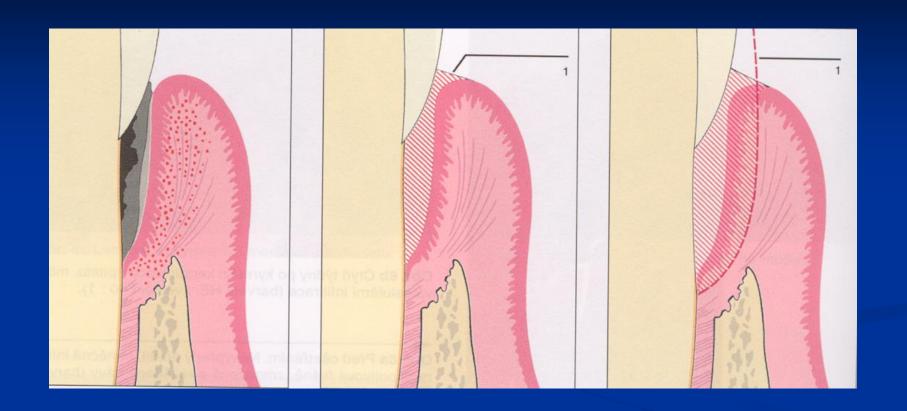
Internal gingivectomy

External gingivectomy



- → Intrasulcular
- Marginal
- Paramarginal





Closed curretage

Flap operation

Modified Widman flap

Apical flap, replaced flap

Papilla preservation technique

Wedge excision

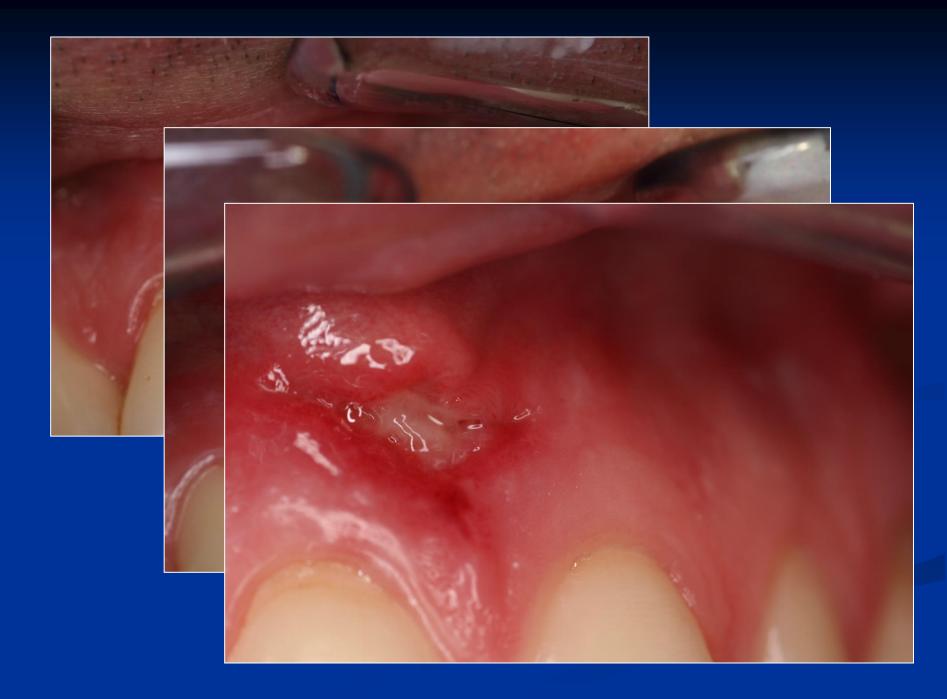
Apical flap

Replaced flap



Mucogingival surgery

- Enlargement of attached gingiva
- Frenulectomy
- Vestibuloplastic
- □ Plastic of recessus
- -Lateral flap
- -Bridge flap
- -Mucous or mesenchymal grafts



Graft

Bone regeneration

Tissue engineering.....

