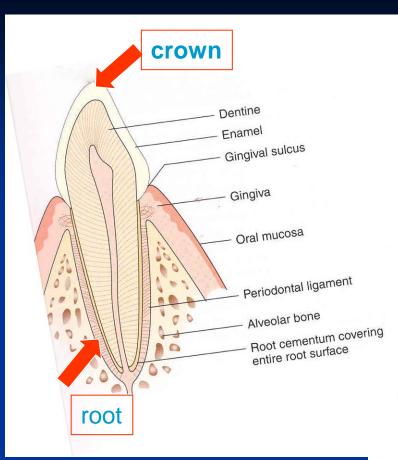
Periodontology

Etiology Pathogenesis Diagnosis Therapy prevention

Periodontology

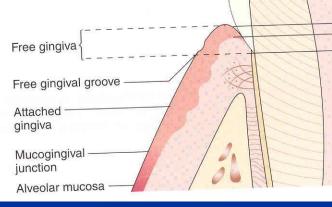
- Periodontal tissues (supportive tissues)
- alveolar bone
- ➤ cementum
- > periodontal ligament
- ≽ gingiva



Morphology

Supportive tissues

Dentogingival junction



Gingival sulcus Sulcular epithelium Cemento-enamel junction

Periodontal diseases



Local factors

Systemic factors

Local factors

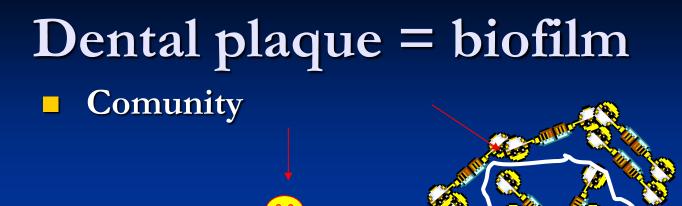
- Dental plaque (biofilm)
- Dental calculus
- Bad fillings
- Overhangs
- No contact poing
- Not polished (esp composite fillings)

Local factors

Bad made crowns and prothesis

Mucosal disorders – frenum

Trauma (bad occlusion)- high fillings



Primitive circulation

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

better conditions to survive higher virulence

Biofilm

Adherence



Colonisation







Can it be recognised and removed easily?





Plaque detection

- Special liquids
- Tablets
- **Gels**





Dental calculus







Periodontal diseases

Plaque associated



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 gingivitis
 Aetiology

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

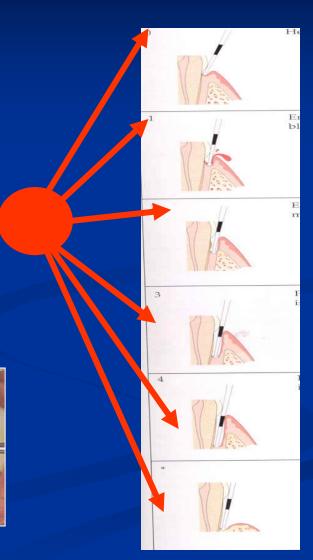
Periodontitis

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









- Gingivitis
- Pocketing
- Loss of alveolar bone
- Drifting and mobility
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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

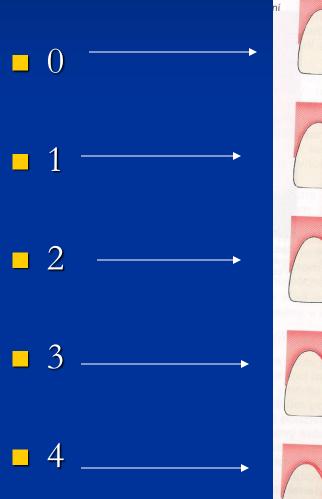
Radiography

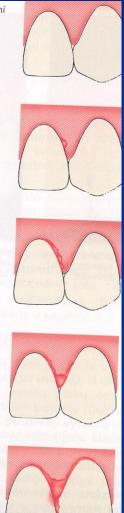
Investigative instruments in periodontology

- 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)



PBI – papilla bleeding index





No bleeding

Point

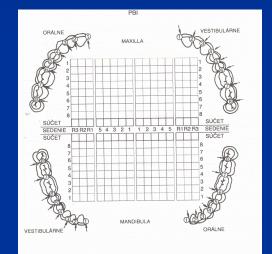
Line

Triangl

Drop



Importance Sume divided with number of investigated points - figure

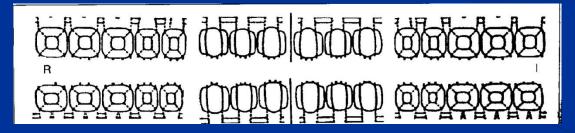


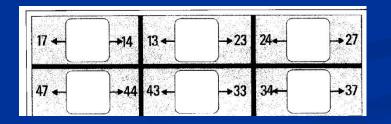
52:28= 1,8 52/28

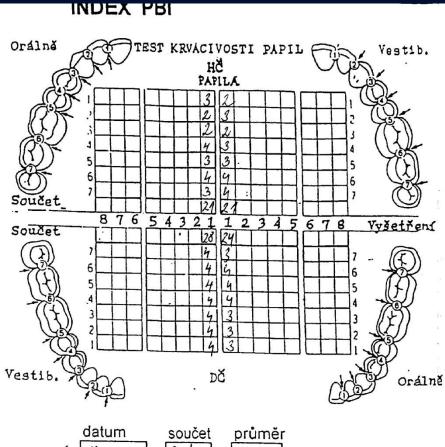
CPITN (Comunity periodontal index of treatment needs)

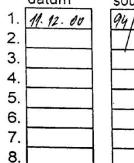
Kód	Nález	Potřeba ošetření								
0	normální	0	bez potřeby léčení							
1	krvácení po sondování	a standard	hygienická instruktáž							
2	supra- nebo subgingivální									
	zubí kámen, iatrogenníí									
	marginální dráždění	and the second second	l + supra- a subgingivální							
3	choboty 3,5–5,5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

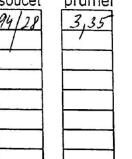
— 5.5mm — 3.5mm — .5mm dia.











- 0 papila nekrváci 1 krev -bod 2 -linka
- 3 -trojuhelnik
 - -kapka

4

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19.3.02 3		2	2	3	3	3	3	3	3	1	3	3	4	4	3	4
4	.[
5	5.															[
e	3. [[
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WHO probe Slight pressure Around the teeth Wait 1 min

CPITN

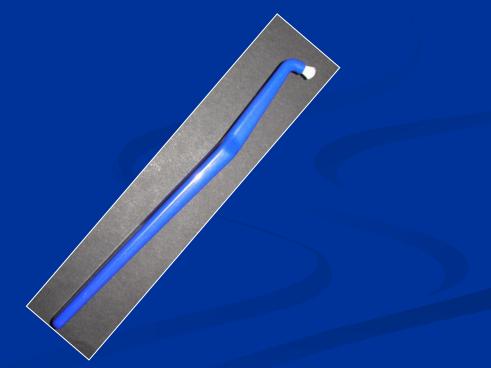
- 0 no bleeding
- 1 bleeding
- 2 dental calculus
- 3 periodontal pocket 3 5 mm
- 4periodontal pocker deeper than 5 mm

CPITN

- 0 -no therapy
- I 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





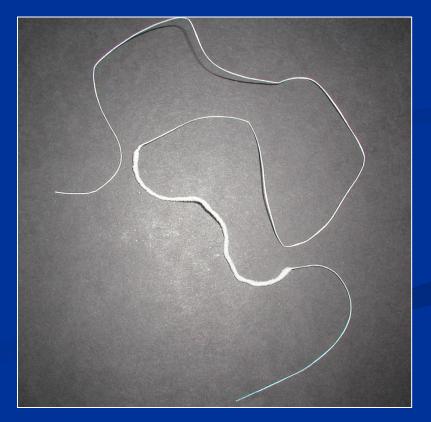
1. Oral hygiene - professional, home care INDIVIDUAL





I. Oral hygiene - professional, home care INDIVIDUAL



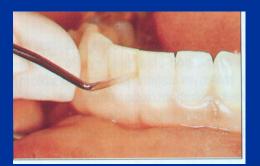


Scalers

sharp pointed instruments removal supragingival calculus only



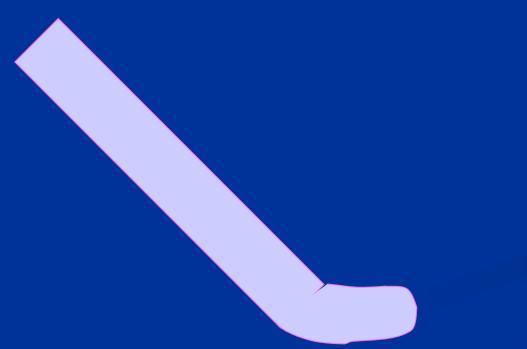


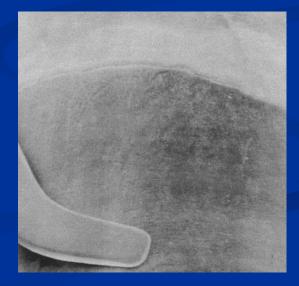






Sonic and ultrasonic scalers





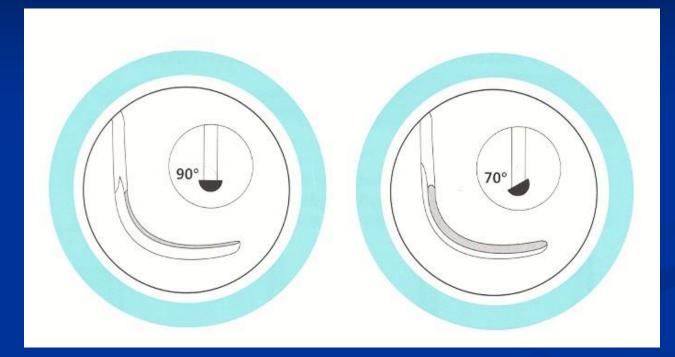
Air flow



Currettes

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

Universal and special currette

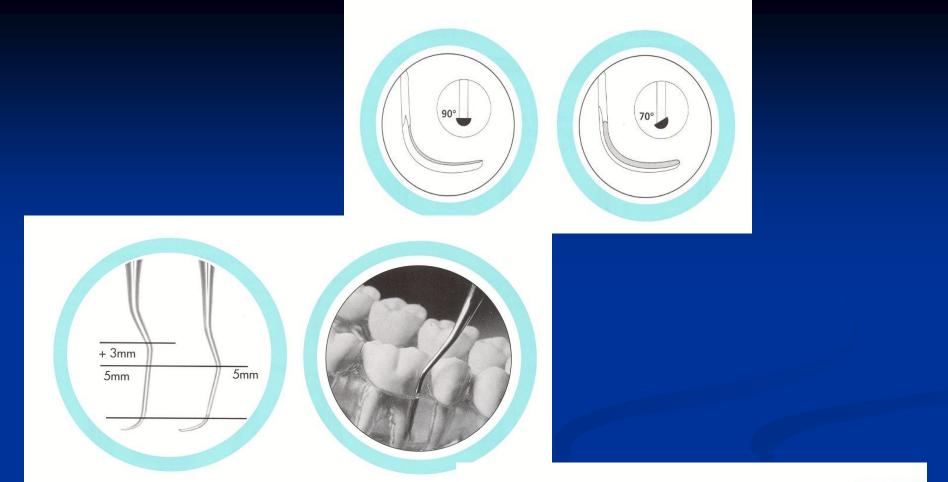


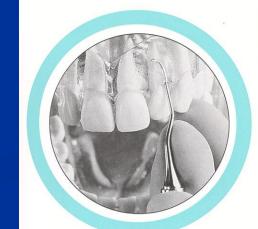
Universal Working part and shaft 90° Cut also soft tissue

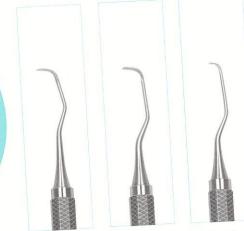
Special Working part and shaft 70° Clean only root of the tooth





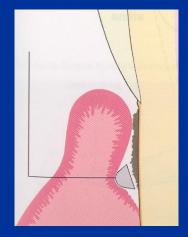


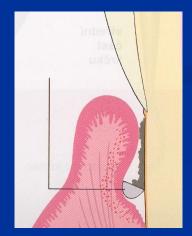




Scaling, root planing

Action of the currette















Oral hygiene

Scaling – root planning

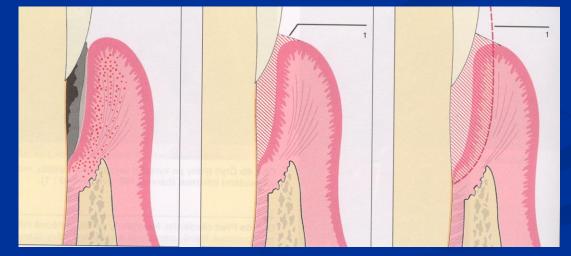


Prosthetic treatment

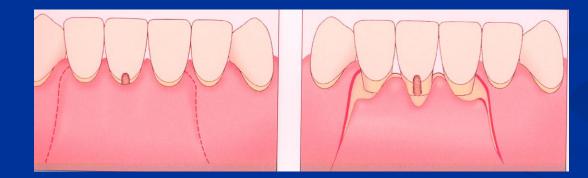


2. Subgingival treatment – scaling root planing, curettage





3. Periodontal surgery



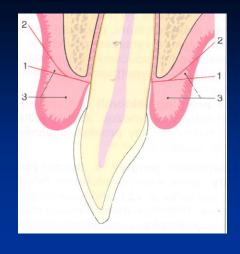
Gingivectomy, gingivoplasty

Indications of gingivectomy

- > Hyperplasia gingivae (pseudopockets)
- Supraalveolar periodontal pockets with the horizontal bone resorption

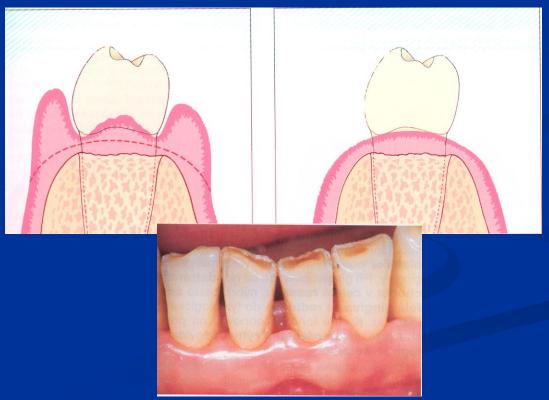
- Bad configuration of the gingival margin or papilla fol. ANUG or extraction.

Gingivectomy





Gingivoplastic



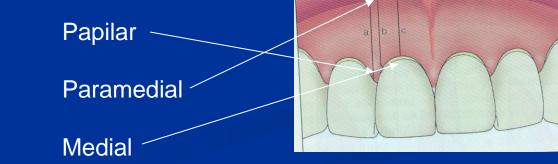
Internal gingivectomy

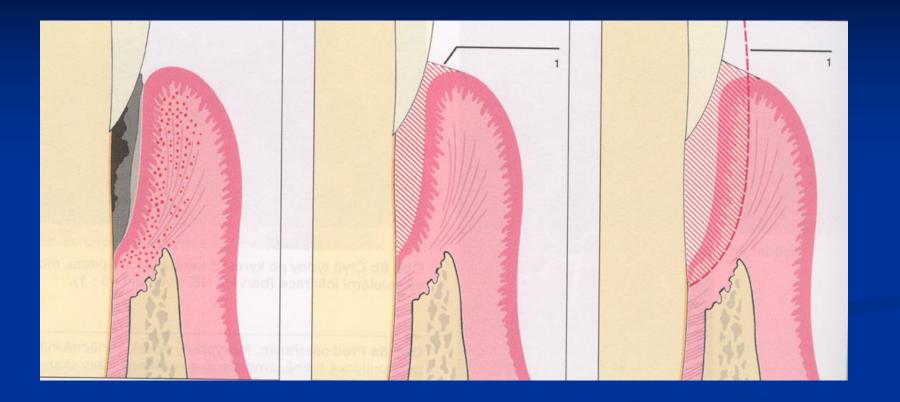
External gingivectomy



Intrasulcular

- Marginal
- → Paramarginal





Closed curretage

Flap operation

Modified Widman flap

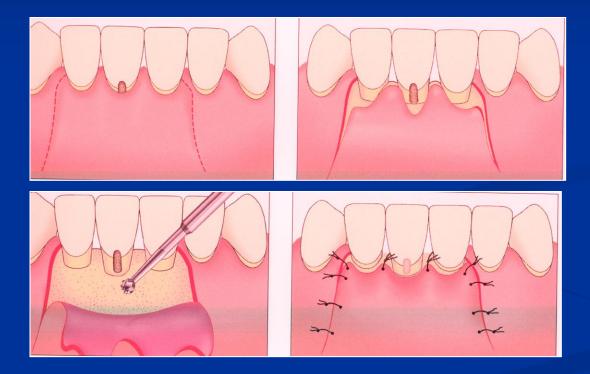
Apical flap, replaced flap

Papilla preservation technique

Wedge excision

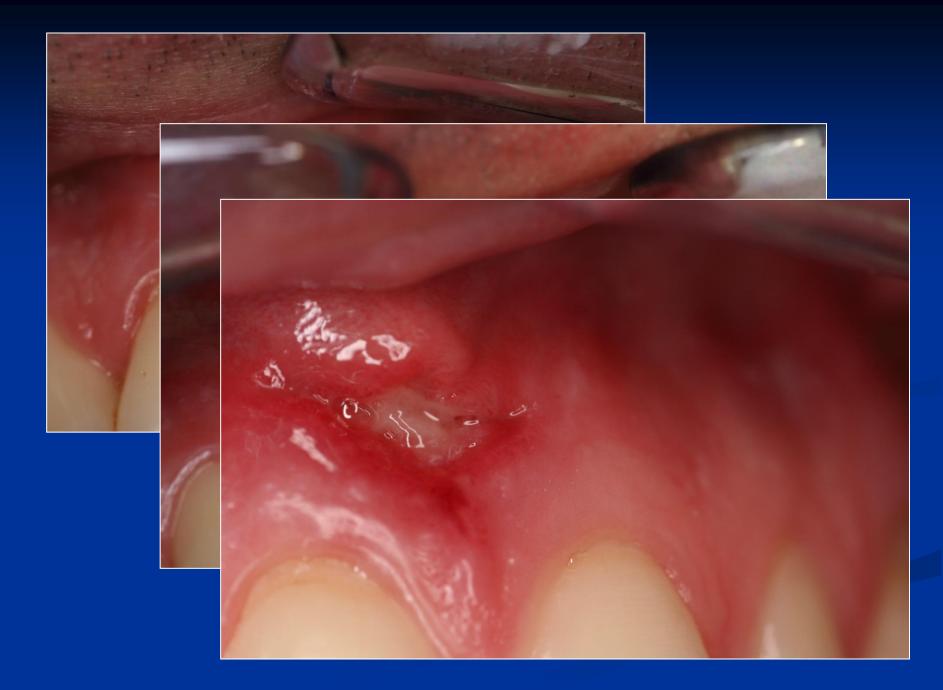
Apical flap

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.....

