

Evident pro





Periodontal Jurgeries II. Resective and reparative approaches

ATTILA HORVÁTH

assistant professor

Semmelweis University, Dept. of Periodontology, Budapest Periodontology Unit, UCL Eastman Dental Institute, London Evident Pro perio-implant private practice, Budapest

attila.horvath.dr@hotmail.com

Treatment phases



of comprehensive periodontal therapy

- BPE index
- Systemic / Acute
- 2. Treatment of MH and acut lesions (e.g. abscess, NUG/NUP)
- B. Full perio chart: PPD, REC, CAL, FMPS, FMBS, furcation (I-III), mob (1-3) Initial
- 4. Tooth by tooth prognosis (secure, doubtful, hopeless)
- 5. Case presentation, consequences of no treatment
- Oral hygiene instructions, smoking cessation counseling
- Root surface debridement, elimination of plaque retentive factors, temporary splinting, fluoride application, monitoring/improving OH
- $\textbf{8.} \quad \text{Re-assessment at 6-8 weeks (full perio chart), Corrective Tx plan}$
- 9. Periodontal surgeries or reRSD or extraction(PPD≥5mm)
- 10 Re-assessment (perio chart PPD should be <4mm
- 11. Definitive prosthetic, implant, ortho Tx

Corrective

12. Periodontal supportive care (risk ana

Supportive

Diagnosis



Probing pocket depth (PPD):

Average: 1,5 mm, but phisiological upto 3mm



Probing pocket depth (PPD):

Over 4 mm PPD stable periodontium may not be maintained by merely self performd OH. Therefore it may be considered as pathologic depth.

PPD < 5 mm

BoP- (non bleeding)

PPD ≥ 5 mm BoP+ (bleeding)

Decision plan



@ Reassessment

PPD≥5mm, BoP+

- 1) No residual pockets, stabile periodontal status (long lasting), to get self cleansable tooth-root surfaces (prosthetic work as well)
- 2) If it is possible: promote the regeneration of the damaged periodontal tissues
 - A. Non-surgical therapy (ReRSD)
 - B. Periodontal surgery (resective or regenerative)
 - C. Tooth extraction

Aim:

Surgical and nonsurgical periodonta therapy. Learned and unlearned concepts

L.J.A. Heitz-Mayfield & N.P. Lang

Periodontology 2000, 62: 218-231, 2013

Surgical techniques - paradigm shift

• Success of the periodontal surgical therapy depends on:

- Quality of the Supportive care
- Quality of the self performed oral hygiene
- New paradigm: Factors at the patient level
 - Cooperation
 - Smoking
 - Plaque control
 - General health factors
 - Patients care after surgery

Nyman S, Lindhe J, Rosling B. Periodontal surgery in plaque-infected dentitions. J Clin Periodontol 1977: 4: 240–2

Critical PPI

- A kritikus tasakmélység reprezentálja azt a határértéket, ami felett a terápia sikeres (tabadas nyereség figyelhető meg), ami <u>alatt</u> a kezelés során tapadásvesztés érhető el.
- Nem-sebészi terápiánál (depurálás és gyökérsimítás) az érték: 2,9 mm
- Sebészi terápiánál az érték: 4,2 mm

 Lindhe J, Socransky SS, Nyman S, Haffajee A, Westfelt E. "Critical probing depths" in periodontal therapy. J.Clin Periodontal 1982: 9: 323-336.

Conclusions

- A successful periodontal treatment needs the proper Minination of the denta biofilm, but not the contaminated root surface and the internal pocket wall
- For a PPD>6mm pocket the surgical approach is recommended, if the patiens come for regular visit – supportive periodontal care, and has good level of oral hygiene
- There are numerous, new materials and methods: the clinician has to be aware of their limitations. Usually there are lack of information and well established longitudinal studies about the capabilities advantages and disadvantages of several newly developed techniques.
- But sometimes we have to overcome our present knowledge and "habits" to let the new era reach us and learn other perspectives.

Decision plan



@ Reassessment

PPD≥5mm, BoP+

- 1) No residual pockets, stabile periodontal status (long lasting), to get self cleansable tooth-root surfaces (prosthetic work as well)
- 2) If it is possible: promote the regeneration of the damaged periodontal tissues Options:
 - A. Non-surgical therapy (ReRSD)
 - B. Periodontal surgery (resective or regenerative)
 - C. Tooth extraction

Aim:

Aims of the periodontal pocket surgery

- Proper elimination of the dental biofilm (better insight), enhance the prognosis of the affected teeth
- · Soft and hard tissue corrections
- From OHI point of view: Favourable and cleansable tooth morphology
- If it is possible: regeneration

Types/possibilities of periodontal surgical approaches

• Explorative (OFD, Access Flap, reparation)

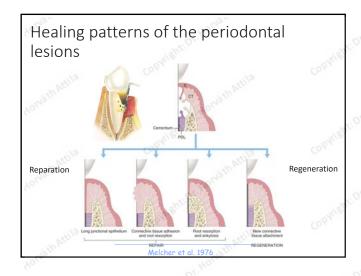
Open up, cleaning, removal of granulation tissues, sutering to the same position (long junctional epithelium)(reparation) $\,$

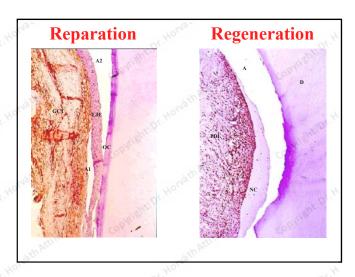
· Resective periodontal surgery

Elimination of the periodontal pocket with surgical manipulation of the soft and/or hard tissues (recession) (reattachment)

· Regenerative techniques

 $\label{thm:linear_problem} \textbf{Attempt to foster regeneration of periodontal tissues (new attachment)}$





Types/possibilities of periodontal surgical approaches

• Explorative (OFD, Access Flap, reparation)

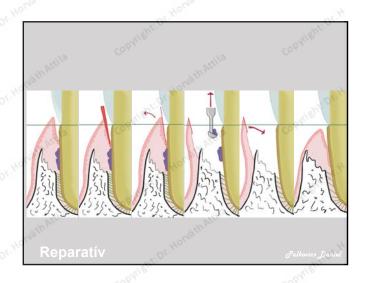
Open up, cleaning, removal of granulation tissues, sutering to the same position (long junctional epithelium)(reparation)

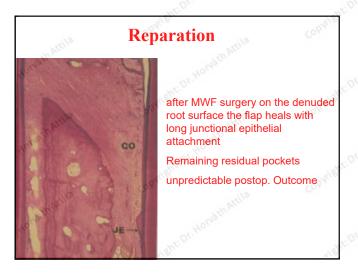
· Resective periodontal surgery

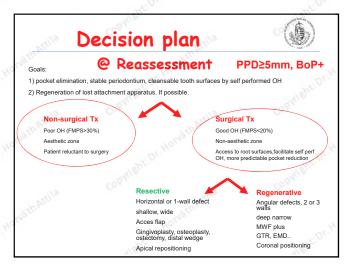
Elimination of the periodontal pocket with surgical manipulation of the soft and/or hard tissues (recession) (reattachment)

• Regenerative techniques

Attempt to foster regeneration of periodontal tissues (new attachment)







Types/possibilities of periodontal surgical approaches

• Explorative (OFD, Access Flap, reparation)

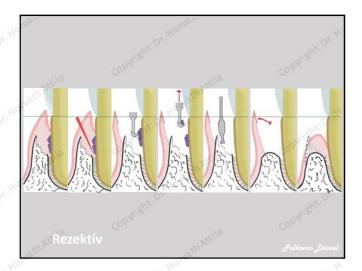
Open up, cleaning, removal of granulation tissues, sutering to the same position (long junctional epithelium)(reparation)

• Resective periodontal surgery

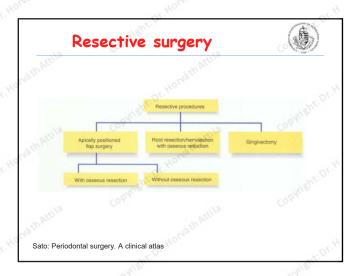
Elimination of the periodontal pocket with surgical manipulation of the soft and/or hard tissues (recession) (reattachment)

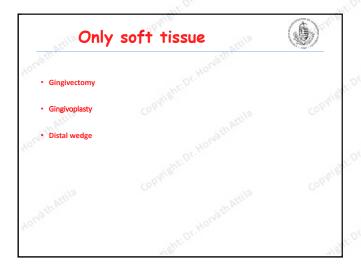
• Regenerative techniques

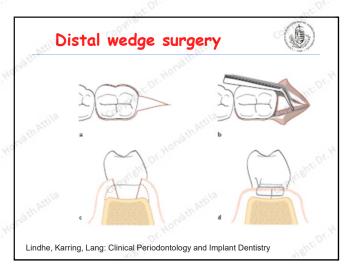
Attempt to foster regeneration of periodontal tissues (new attachment)



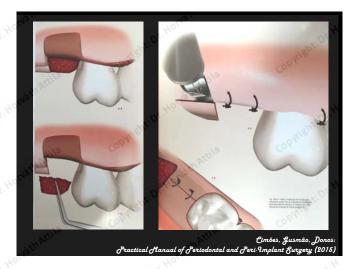
Resective surgery Table 1-8 Advantages and Disadvantages of Resective Procedures Advantages Disadvantages 1. Reliable 2. Short term (8-12 weeks) 3. Obtat facilitates easy maintenance Disadvantages 1. Attachment loss 2. Root exposure, compromising esthetics 3. Strong possibility of hypersensitivity 4. Strong possibility of phonetic impediment Sato: Periodontal surgery. A clinical atlas

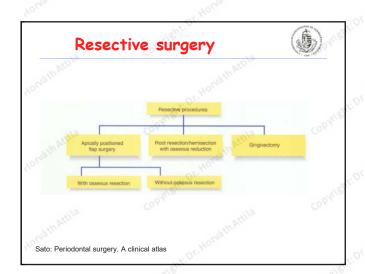






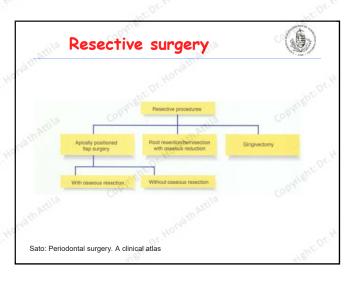




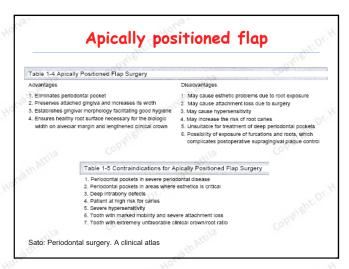




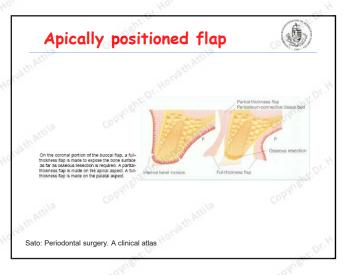


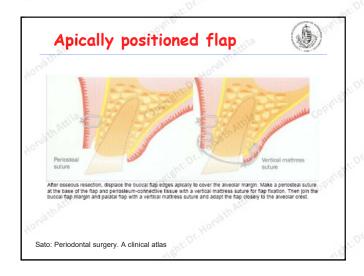


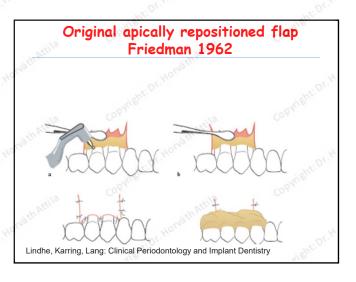


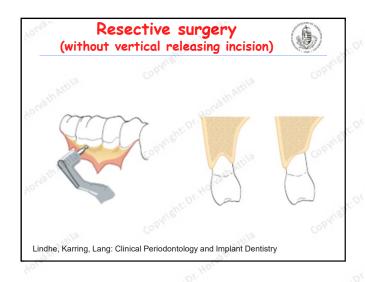




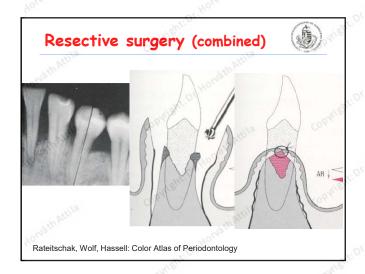




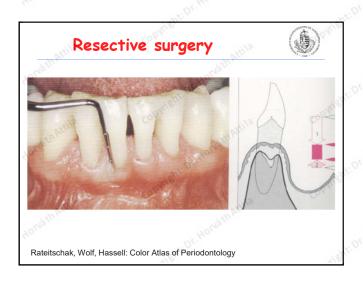


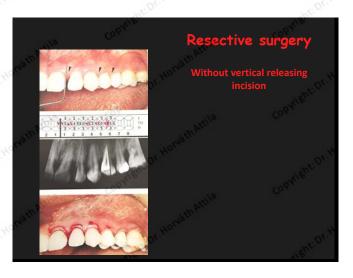


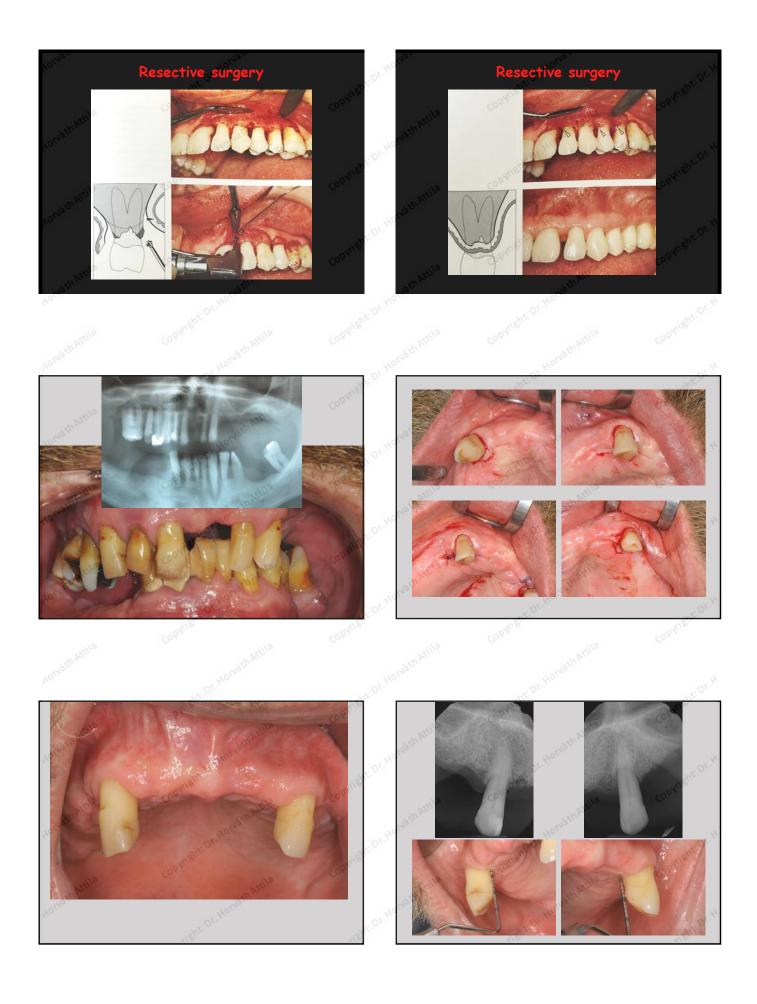




















Summary



Periodontal reconstructive surgery must be preceeded by non-surg Tx (RSD)

Pt's OH and compliance must be satisfactory

Patient must be informed on the available Tx modalities their side effects and the consequences of $\mathsf{No}\,\mathsf{Tx}$.

Limits of regenerative Tx must be discussed as well as the potential need of a corrective resective surgery, if regeneration fails.

In abscence of supportive defect morphology resective surgical approach shall be used.

Soft and hard tissue correction may be necessary in order to facilitate self-performed OH.

In case of narrow attached gingiva, thin biotype apical positioning of the MGJ shall be taken into account.

Importance of the supportive care must always be highlighted

