The treatment of patients with periodontal disease should involve the application of standard procedures based on commonly accepted guidelines. This “Periodontal Treatment Guide” aims to support local networks of general dentists, hygienists and periodontists by providing evidence-based guidelines for diagnosis, referral and treatment options.

The “Periodontal Treatment Guide” is the result of a consensus established by a group of experienced and highly renowned periodontists who based their recommendations for these guidelines on the systematic assessment of the available literature. The final goal of these activities is to help you to improve periodontal therapies in order to restore oral health and help preserve the teeth of the patient.
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Periodontal treatment

Legend
BPE Basic Periodontal Examination  PPD Probing Pocket Depth  FMPS Full Mouth Plaque Score  BOP Bleeding on Probing  GTR Guided Tissue Regeneration  SRP Scaling and Root Planing
Periodontally healthy patient

**ORAL CHECK**

**MAINTENANCE PHASE**

**EVALUATION**

- PPD ≤ 4 mm
- FMPS ≤ 20%
- BOP ≤ 20%

**TO CHECK**

- Oral hygiene
- Tobacco consumption
- Periodontal status
- Furcation involvement
- X-ray status
- General health

**TO DO**

- Oral hygiene motivation
- Instruction
- Disinfection

Successful

Not successful

**PROPHYLAXIS**

Preventive long-term care
Patient with periodontal disease

**SYSTEMIC PHASE AND PERIODONTAL DIAGNOSIS**

**EVALUATION**

- **PPD ≤ 4 mm, FMPS ≤ 20%, BOP ≤ 20%**
  - Moderate chronic periodontitis
    - PPD ≤ 6 mm without intrabony defect
    - Furcation involvement (class I)
- **Severe chronic periodontitis or aggressive periodontitis**
  - PPD > 6 mm with intrabony defect
    - with furcation involvement (class II or class III)
    - Necrotizing periodontitis
      - Periodontitis with systemic disease
      - Special case of periodontitis
      - PPD > 6 mm Profuse bleeding or pus

**PROPHYLAXIS**
Preventive long-term care

**TO CHECK**

- Oral hygiene
- Tobacco consumption
- Periodontal status
- Furcation involvement
- X-ray status
- General health (systemic diseases, e.g. diabetes, circulatory problems, etc.)
- Stress
- Pregnancy

Consider also the removal of inadequate restorations, optional splinting before surgery, use of microbiologic tests, involvement of general physician and extraction of hopeless teeth.

Regarding hopeless teeth the following factors should be considered: bone loss, clinical attachment loss, degree of mobility, endodontic factors, restorative factors, anatomy and tooth position.

**TO DO**

Optionally not via specialist

Refer to a specialist
Patient with periodontal disease

TO DO
- Motivation for oral hygiene
- Instruction
- Plaque control

RE-EVALUATION
PPD ≤ 4 mm
FMPS ≤ 20%
BOP ≤ 20%

Not successful

TO DO
Non-surgical periodontal treatment i.e. supragingival and subgingival SRP

2nd Chance

RE-EVALUATION (3 Month)
PPD ≤ 4 mm
FMPS ≤ 20%
BOP ≤ 20%

Not successful

TO DO
Second non-surgical periodontal treatment

Successful

PROPHYLAXIS
Preventive long-term care

Click here
PERIODONTAL SURGERY OF MULTI-ROOTED TEETH WITH FURCATION INVOLVEMENT (Class II and III)

PERIODONTAL SURGERY OF SINGLE-ROOTED TEETH OR MULTI-ROOTED TEETH WITHOUT FURCATION INVOLVEMENT (PPD > 6 mm)
Surgery – with furcation involvement (Class II and III)

MAXILLA\(^1\)

- **Class II**
  - Buccal: Straumann® Emdogain® or GTR
  - Mesial: Straumann® Emdogain®
  - Distal: Root resection or flap surgery with Straumann® Emdogain®

- **Class III**
  - Resective approach or extraction

MANDIBLE\(^2\)

- **Class II**
  - Straumann® Emdogain® or GTR either alone or in combination with graft (in buccal defects) or resective approach

- **Class III**
  - Tunneling, or resective approach or extraction

\(^1\) Limited evidence for regeneration

\(^2\) Depending on the local soft and hard tissue characteristics
Surgery – without furcation involvement (PPD > 6 mm)

**HORIZONTAL BONE LOSS**
- Conventional periodontal flap surgery
- Conservative or resective approach according to site characteristics

**ANGULAR BONY DEFECT**
- Site mapping for defect localization, e.g. bone sounding
- Regenerative surgical technique designed to maintain the interdental soft tissue
- Intrabony component ≥ 3mm

**SELF-CONTAINED DEFECT**
- Straumann® Emdogain® or GTR either alone or combined with graft

**NON-SELF-CONTAINED DEFECT**
- Straumann® Emdogain® or GTR combined with graft

*Click here*
Re-evaluation

**RE-EVALUATION (6 Month)**

- **Successful**
  - **PROPHYLAXIS**
    - Preventive long-term care
  - PPD ≤ 4 mm
  - FMPS ≤ 20%
  - BOP ≤ 20%
  - Closure or improvement to furcation class I
  - Filling of the angular bony defect

- **Not successful**
  - **TO DO**
    - Reconsider diagnosis and treatment plan.
    - Further non-surgical therapy, if necessary.

**TO DO**

- Post-operative care

*Click here*
Post-operative care (after periodontal surgery)

- Use of antiseptic oral rinse (e.g. 0.1-0.2% chlorhexidine solution) for 3-6 weeks
- Optional use of systemic antibiotics
- Removal of sutures when they are no longer necessary for wound stability (usually after 10-14 days)
- No brushing in the operated area for at least 2-3 weeks, professional post-operative care once a week (about 30 min)
- After 3 weeks gentle brushing of the buccal and lingual tooth surface with a “wiping technique”
- No sulcus or interproximal tooth cleaning for at least 3-4 weeks post-op/until stable or interproximal conditions are achieved
- Regular check-up by dentist – individual recall program
The following publications have been consulted by the authors

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