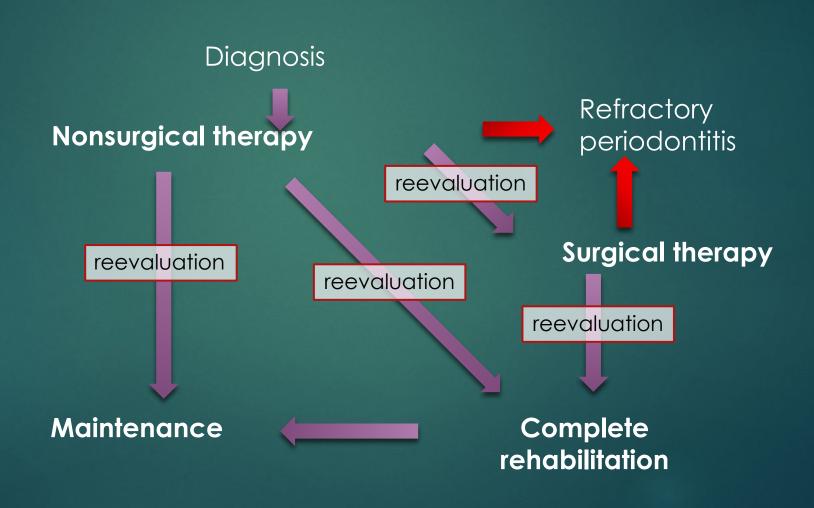
# Periodontal Propedeutics II.

CAUSE-RELATED THERAPY

## Phases of Comprehensive periodontal treatment

- Treatment of acute and systemic conditions, BPE (Acute/systemic phase)
- 1. Initial/Cause-related therapy (= nonsurgical therapy)
  - Complete periodontal chart: PPD, REC, CAL, FMPS, FMBS, furcation (I-III), tooth mobility (1-3)
  - Individual tooth prognosis (safe, doubtful, hopeless/irrational-to-treat)
  - Case presentation, consequences from the lack of treatment
  - Oral hygiene instruction, smoking counseling
  - Scaling and root surface debridement, removal of plaque retentive factors, temporary splinting, local fluoride therapy, monitoring of oral hygiene
  - Reevaluation at 6-8 weeks (complete perio chart), corrective treatment plan
- Corrective phase (Surgical phase, prosthetic rehabilitation)
  - Periodontal surgery
  - Restorative, prosthetic and orthodontic treatment, implant surgery
- 3. Maintenance phase (SPT)
  - Risk assessment

#### Comprehensive periodontal therapy



#### Cause-related periodontal treatment

#### 1. Aim:

Bringing caries and gingivitis under control and arrest the progression of periodontal tissue destruction

#### 2. Steps:

- Improve the oral hygiene
- supra-, subgingival scaling
- Root surface debridement
- extract hopeless teeth
- Eliminate plaque retentive factors
- Treatment of carious lesions
- Splinting
- Antibiotics if needed

## Scaling and root planing

#### Goals:

- Resolution of gingivitis
- Stop attachment loss
- ▶ Calculus
- Dental plaque
- Infected cementum
- Granulation tissue

removal



#### Instruments

- Ultrasonic scalers
- Sonic scaler
- Manual scalers
- Curettes
- Other: laser instruments



## Supragingival Scaling





## Supragingival scaling, Polishing





## Subgingival scaling





#### Ultrasonic instruments

- Effective plaque and calculus removal by vibration of the instrument's tip
- frequency: 24000-42000 Hz
- use for supra and subgingival scaling
- always with water-spray!!!
- contra-indication: pacemaker



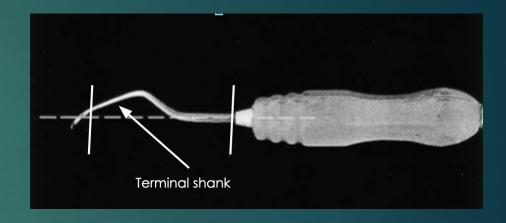
#### Sonic instruments

- Mechanically produced vibration in the sonic range
- effective for calculus removal
- use with water-spray (friction)
- has no contra-indication
- air driven instrument



#### Hand instruments

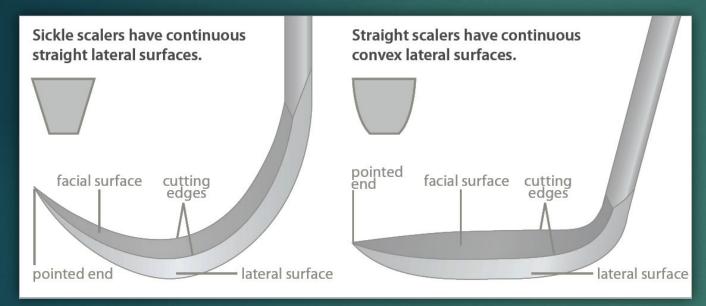
- blade shank handle (shaft)
- blade has a facial and a lateral surface
- the edge is the working part of the blade





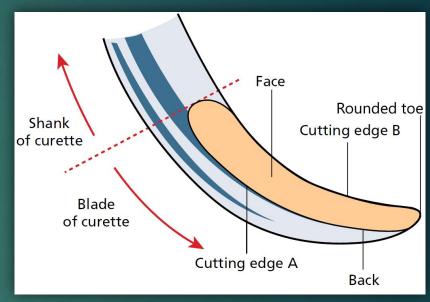
#### Instruments

#### Scalers



- sharp-ended blade
- triangle cross section
- two cutting edges
- for supragingival scaling and debridment only

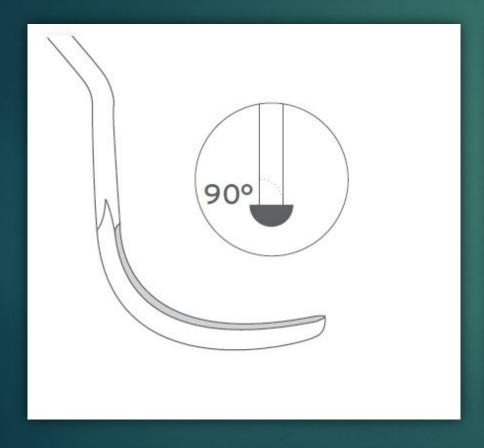
#### **Universal Curette**



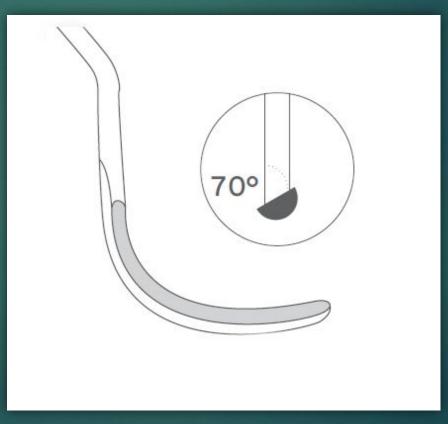
- dull-ended blade
- two working edges, spoon shaped blade
- used for supra and subgingival debridement, scaling, root planning

#### Curettes

#### Universal curette



#### Gracey curette

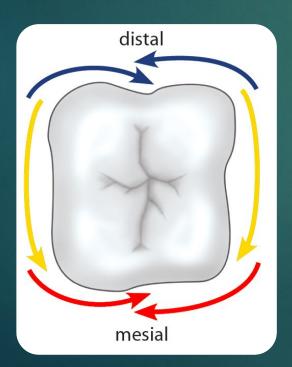


- surface specific
- one working edge ("it looks down")
- double-ended (mirror-turned blades)
- semicircular cross section

## Gracey curettes



- Area specific
- One working edge



#### **Gracey Application Chart**

Use this color-coded chart to select the correct Gracey patterns for your application.

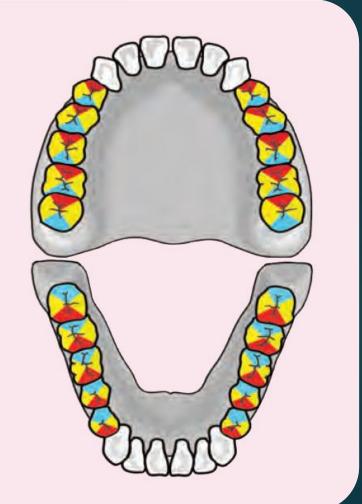
#### **Anteriors**

All Surfaces
Gracey Patterns 1-2, 3-4 or 5-6

#### **Premolars and Molars**

- Buccal & Lingual Surfaces
  Gracey Patterns 7-8 or 9-10
- Mesial Surfaces
  Gracey Patterns 11-12 or 15-16
- Distal Surfaces

  Gracey Patterns 13-14 or 17-18



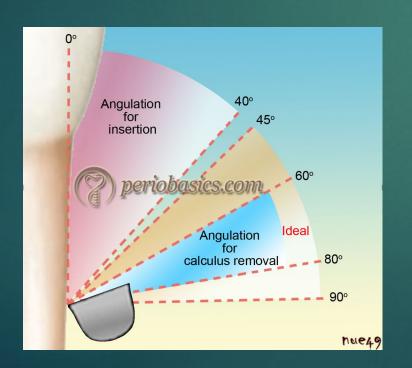
- Gracey 1-2: incisor teeth
- Gracey 3-4: front teeth
- Gracey 5-6: front teeth, premolars
- Gracey 7-8, 9-10: buccal and oral surface of premolars and molars
- ► Gracey 11-12: mesial surface of premolars and molars
- Gracey 13-14. distal surface premolars and molars

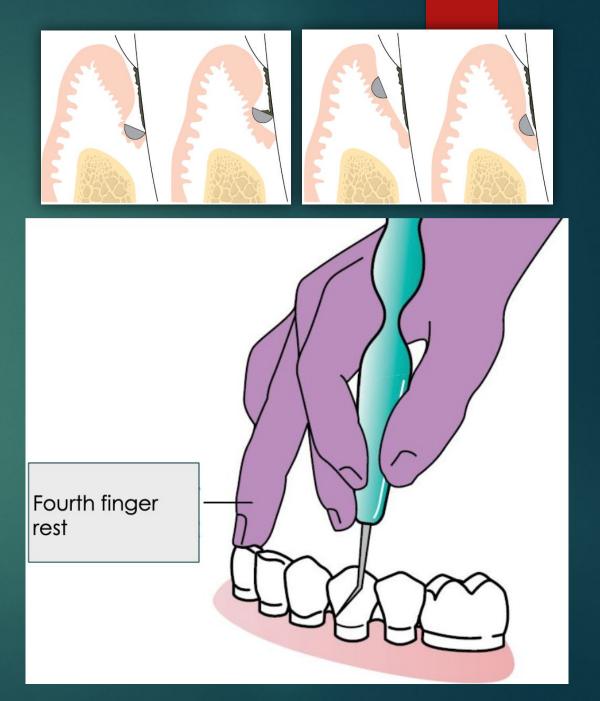
- ► Gracey 15-16: mesial surface of the mandibular molars
- Gracey 17-18: distal surface of molars



#### Use of Gracey curettes

- usually in local anaesthesia
- modified pen grasp with proper finger rest
- strokes from the apical to the coronal direction





## Results of cause-related therapy





## Results





## Results





#### Results

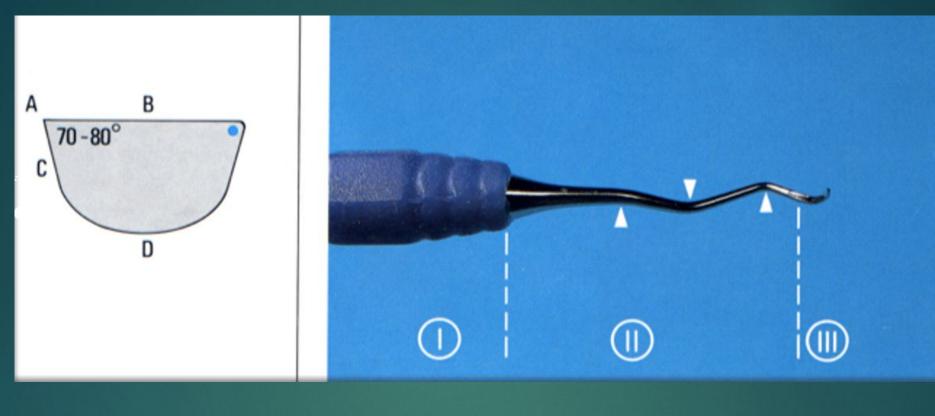


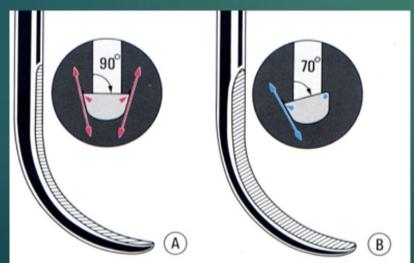


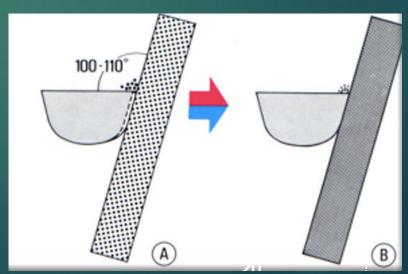


## Upkeep of instruments - sharpening









Sharpening the Gracey curette

Angulation between vertical plane and sharpening stone:

Scaler and universal curette: 20°

Gracey-curette: 40°







## Sharpening machine



## Thank you for your attention!