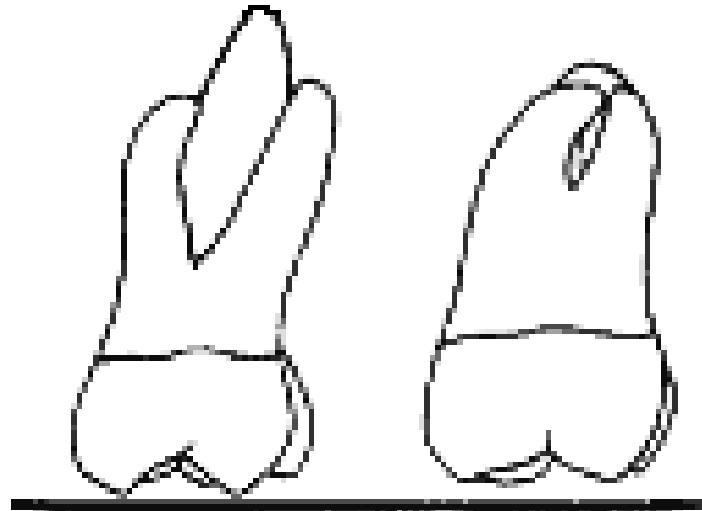


The hygienist's "F" word

Furcations

ANATOMY



the fusion of roots will influence
the height of the furcation opening

Root Concavities

- **Mandibular Molars**
 - 100% mesial roots
 - 99% distal roots



ANATOMY

- Mandibular molar teeth
 - generally two roots of similar size and length
 - mesial root is usually barbell-shaped due to mesial and distal concavities
 - distal root has a mesial concavity and usually has a smaller buccolingual dimension

Root Concavities

- **Maxillary Molars**
 - 94% mesiobuccal roots
 - 31% distobuccal roots
 - 17% palatal roots



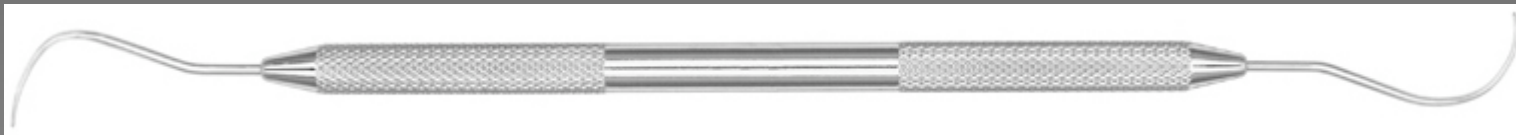
ANATOMY

- Maxillary molar teeth
 - MB roots are comparatively wide buccopalatally
 - marked concavities
 - DB roots are smaller in dimension
 - more rounded in outline
 - less distinct concavities
 - palatal roots are wider mesiodistally than buccopalatally

Probes



CP-12 Color-Coded Probe



2N Nabers Probe



2N Color-Coded Nabers Probe

Furcation Curettes



1 Buccal-Lingual Quetin Furcation Curette



2 Buccal-Lingual Quetin Furcation Curette



3 Labial-Lingual Quetin Furcation Curette



1 Mesial-Distal Quetin Furcation Curette



2 Mesial-Distal Quetin Furcation Curette

Quetin Furcation Currettes

- Small hoe-like instrument
- Access into the ceiling or floor of the furcation
- Access into the depressions of roots inside furcations
- Removes burnished calculus without removing much root surface.

Files



3/7 Hirschfeld File Scaler



5/11 Hirschfeld File Scaler



9/10 Hirschfeld File Scaler



Mesial/Distal Diamond File Scaler



Nabers Diamond File Scaler

Hirschfeld Files

- **Helpful in breaking up heavy calculus**
- **Useful in breaking up sheet-like burnished calculus**
- **Currettes or diamond files should follow usage to smooth the root**
- **Thin ultrasonic tips on medium power should follow usage to smooth the root if hand instruments cannot fit area**

Mini Instruments



Sub-0 Gracey Curvette



1/2 Mini Five Rigid, EverEdge



5/6 Rigid Mini Five Gracey Curette



7/8 Mini Five Gracey Curette



11/12 Rigid Mini Five Gracey Curette



13/14 Rigid Mini Five Gracey Curette

Hu Friedy 7/8 Graceys



Standard Mini Micro-mini

From Dimensions of Dental Hygiene. February 2006;4(2):28-30

Micro Mini-Five Gracey Curettes



- Blades 20% thinner than Mini-Five Gracey curettes
- Elongated terminal shank
- Slightly increased rigidity
- EverEdge technology

- Hu Friedy

Micro Mini-Five

- Allows better access to furcations and very tight, narrow pockets
- Trend toward miniaturization of instruments facilitates non-surgical treatment of areas previously difficult or impossible to reach with standard hand instruments

From *Dimensions of Dental Hygiene*.
February 2006;4(2):28-30

TREATMENT OPTIONS

- **Class 1**
 - **SC/RP**
 - **Mini Graceys**
 - **Ultrasonic fine tips**
 - **Thin tip Magnostriuctive**
 - **Piezo**

TREATMENT OPTIONS

- **Class 2**
 - **SC/RP**
 - **Class 1 plus**
 - **Files**
 - **Brasseler**
 - **HuFriedy**
 - **Endoscope**

TREATMENT OPTIONS

- **Class 3**
 - **SC/RP**
 - **Class 1 & 2 plus**
 - **Quetin**
 - **Micro-minis**

Prognosis

- **Hirshfeld and Wasserman. “A long term survey of tooth loss in 600 treated periodontal patients.” J Perio 1978**
 - 600 patients followed an average of 22 years with recall every 4-6 months
 - 1464 molars initially diagnosed with furcation invasion
 - 70% survival of furcated molars