

牙髓病學 Endodontics

臺北醫學大學 牙醫學系
主授老師：謝松志老師
endo@tmu.edu.tw

學習目標

All students must be familiar with the development of endodontic theory and practice and an evidence-based approach that permits an intelligent evaluation of current and future technologies and materials.

參考資料

- Principle of Endodontics Pathway of the pulp

Summary

- Rationale of Endodontics
Anatomy and Embryology of the Pulp
Pretreatment and Rubber Dam
- Diseases of the Pulp
- Endodontic diagnosis and emergency management
Endodontic Radiography
- Endodontic Instruments and materials
- The Art and Science of Cleaning and Shaping
- The device and application of the Ni-Ti instrument in the endodontic treatment
- The Art and Science of Obturation—
 - Vertical Compaction of Warm GP Technique
 - Lateral Compaction Technique

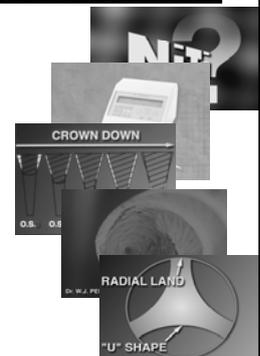
Summary

- Surgical Endodontics
- Apexogenesis and Apexification
- Endodontic Traumatology
- Diagnosis and Management of Combined Perio-endo Problem
Treatment planning /Endodontic Mishap /retreatment
- Apex Locator
Tooth Bleaching
- Laser endodontics
digital radiography / CT in Endodontic treatment
- 醫療環境與心理層面
Treatment planning /Endodontic Mishap /retreatment



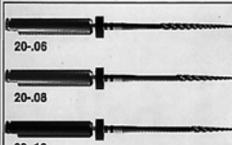
Common features between ProFiles and GT Files

- NiTi
- Low Speed between 150-350 rpm and high torque
- Crown down technique
- Create predetermined taper canal for obturation
- Non cutting tip
- Radial land and U-shaped designed



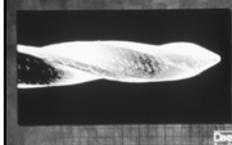
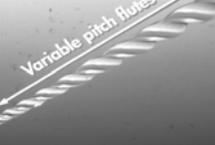
Differences between ProFiles and GT Files

1. Sizes

| ProFiles | GT Files |
|---|---|
| Determined by the apical tip size (apical size available from #15 up to #90, also available in .04 & .06 taper) | Determined by the taper (all files, except accessories files, have same apical size of #20) Tapers available in .12, .10, .08 & .06 |
|  |  |

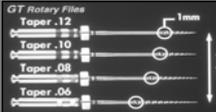
Differences between ProFiles and GT Files

2. Flute angle

| ProFiles | GT Files |
|--|---|
| Constant flute angle of 45° | Variable pitch flute. File tip has a flute angle of 45°, while the flute angle at the shank of the file is 30° |
|  |  |

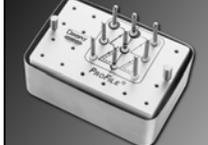
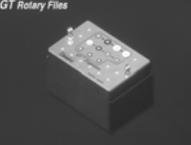
Differences between ProFiles and GT Files

3. Flute length

| ProFiles | GT Files |
|---|--|
| Constant cutting length Orifice Shaper has cutting length of 10mm ProFiles .04, & .06 have cutting length of 16mm | Variable cutting length due to constant max flute diameter of 1mm. .06 ≈ 14mm .08 = 10mm .10 = 8mm .12 ≈ 7mm |
|  |  |

Difference between ProFiles and GT Files

4. Versatility

| ProFiles | GT Files |
|---|---|
| Available in different sizes and tapers, allows more flexibility when selecting instruments for cases | Basic instruments available only in #20 but in different taper. .06, .08, .10, & .12. Selection of cases is limited by the taper of the instrument. |
|  |  |

Difference between ProFiles and GT Files

5. Cutting ability

| ProFiles | GT Files |
|---|--|
| Gentle cutting Passive cutting instruments allows more control in canal preparation. | Aggressive cutting Passive cutting tip but more active cutting shank, this allows more efficiency and time saving in canal preparation. |

Difference between ProFiles and GT Files

• 6. Crown Down

| ProFiles | GT Files |
|--------------------------------|--------------------------|
| Big diameter to Small diameter | Big taper to Small taper |
| Same taper | Same diameter |

