I Want To Do Root Canals! Better! Faster! Safer!
Endodontics and
“The Other Face of the Moon”

Buccal clinical view often leads one to believe that the canal is round in cross section throughout its length.
Endodontics and
“The Other Face of the Moon”

Rotated 90 degrees, the mesial or distal view reminds us that the canal is not round in cross section. This anatomical reality demonstrates the need for a system which will treat the complete canal anatomy.
Endo-Eze
Conventional or Rotary Preperation

Conventional instrumentation (twist-pull or rotary NiTi) often does not clean and shape the entire canal. Tooth structure can be unnecessarily removed, jeopardizing minimal thickness of dentin.
AET cleans and shapes canals using the anatomy as a guide – avoiding over-thinning of dentin and enlarging minimally upon natural anatomy.
AET
Anatomic Endodontic Technology

- AET is a technique specially designed to address the anatomic reality of “The Other Face of the Moon”
- With AET, the unique anatomy of each portion of each canal is cleaned and shaped while preserving tooth structure
- Instruments are specifically designed for the bulk or apical portions of the canal
Use shaping files with the Endo-Eze handpiece in a back-and-forth “milling” action following the cross section shape of the canal. The small, flexible non-cutting tip prevents ledging.

**Taper**

- .025
- .045
- .060

Files become progressively stiffer for serial milling of the canal.
AET
Apical Instrumentation

First use Shaping Files in handpiece again, but to near apex with up and down action. Then begin using Apical Files. Apical files cut only in apical areas of canal. With only 12mm of fluting, these files give better tactile feel to the operator for safe, predictable shaping of the apical 3 - 5mm. The taper is slightly greater than ISO taper of gutta percha assuring tugback from the gutta percha tip only.

**Taper**

- .02
- .025
- .025
AET
Endo-Eze Files

- Stainless Steel
- Shapes according to dictates of anatomy
- Stronger, more torque and fracture resistant
- Available in 23mm, 27mm and 30mm lengths
- 1/3 to ½ the cost of NiTi instruments
Endo-Eze
Auxillary “C” Files

- Fill the gap when needed for highly curved or calcified canals
- Only used approximately 5% of the time

Shaping “C” File

Apical “C” File
Endo-Eze
Patient Kits

- No need for expensive, complicated organizers
- Kitted in sturdy, autoclaveable containers
- Kits contain the instruments required to do 90-95% of all endodontic procedures
Endo-Eze
Patient Kits

- Sponge insert can be soaked with disinfectant to aid in cleaning of files
- Ability to disinfect and seal container between appointments
- Kits are color-coded according to length for easy identification
Endo-Eze
Handpiece
Endo-Eze
Handpiece

- Used with shaping files to clean and shape canals following the anatomy
- Designed not to be overly aggressive
- Keep’s files centered in the flat ribbon
- 30 degree reciprocating motion
- Push button chuck
- Internal water spray
- Autoclaveable
**Endo-Eze**

**Specialty Acess Burs**

- **Round bur** for initial access
- **Acorn bur** to remove chamber roof
- **Button bur** for access enlargement
- **Straight line access bur**
Endo-Eze
The Technique

Access pulp chamber with burs of choice
Bulk instrumentation is completed using Endo-Eze Shaping files to clean and shape canals.
Endo-Eze
The Technique

Determine root canal length by using radiograph or electronic apex locator. Subtract 3mm to establish bulk working length.
Endo-Eze
The Technique

Insert Shaping file #1 into handpiece. Use in canal until resistance is no longer felt. Repeat with Shaping files #2 and #3.

Use milling action to shape canals.
Endo-Eze
The Technique

Apical Section – Insert #1 shaping file and/or #15 or smaller apical file to apex and confirm length radiographically.
Establish patency by inserting Shaping file #1 to length, and briefly instrumenting by hand.

In canals with a curve of 45 degrees or less, insert instrument into handpiece and file up and down until no resistance is noted.
Endo-Eze
The Technique

If canal has a curve greater than 45 degrees, use Shaping files in a manual twist/pull motion for apical shaping.
Endo-Eze
The Technique

- Apical files are used to enlarge the apex and prepare an apical stop
- Use files in a twist/pull motion until adequate canal diameter is obtained for obturation
- For mature roots, instrument to a size #30, or to size dictated clinically
- Canal is ready for obturation
EndoREZ

It Just Fills Better!

- Unique biocompatible methacrylate based root canal sealer/filler
- Hydrophilic type resin
- Radiopacity similar to gutta percha
- Unique mixing and delivery system
EndoREZ (Features/Benefits)

- Hydrophilic characteristics
  - Provides excellent penetration into even moist dentinal tubules
- Superior flow and wetting characteristics; even through 30g Navi Tips
  - Facilitates delivery to near apex.
- Sets soft
  - Facilitates easy removal with post drills
EndoREZ (Features/Benefits)

- Radiopacity similar to gutta percha
  - Simplifies radiographic interpretation
- Excellent seal even in slightly moist canals
- Versatile
  - Can be used with conventional endodontic instrumentation and/or obturation techniques e.g. hot GP
EndoREZ

Deliver from apex up to eliminate air voids

Hydrophilic EndoREZ flows into accessory canals
Skini Syringe

- Small diameter syringe for easy delivery of resins through tiny Navi Tip
Skini Syringe
(Features/Benefits)

- Small diameter
  - Generates high pressure with minimal plunger force
  - Allows for easy delivery of resin through the Navi-tip
  - Reduced waste
NaviTips

- Strong/rigid 30g canula with flexible rounded tip end
- Various lengths
- Versatile
NaviTips (Features/Benefits)

- Flexible and rounded tip (end 5mm)
  - Easily navigates curved canals
- Versatile
  - Ideal for delivery of File-Eze, UltraCal XS, and other Ultradent irrigants and medicaments
- Various lengths – 17, 21, 25, 27mm & Asst
NaviTip

EndoREZ flows readily through the NaviTip into root canal

Rigid where needed

Flexible where needed
Buccal clinical view of canal cleaned and shaped with AET. Canal has a shape of a canal, not a file.

Fit Ultradent Stiff GP to length. The stiffness of these GP increase the predictability of insertion to working length.
Eze of Fill

Endo-Eze AET Single Cone Obturation Technique

Insert NaviTip to short of apex

Slowly withdraw NaviTip as you inject EndoREZ.
Eze of Fill
Endo-Eze AET Single Cone Obturation Technique

Insert Premium Stiff GP to length. Hydraulic pressure generated by insertion will not bend point and will push EndoREZ into accessory canals. EndoREZ will set in 15 to 30 minutes.

Hydrophillic nature of EndoREZ allows penetration into dentinal tubules for a superior seal.
Endo-Eze AET Instrument System

- Shaping action guided by anatomy
- Removes all soft tissue, necrotic or otherwise
- Preserves tooth structure
  - Maximum dentin thickness maintained
- Virtually eliminates expulsion of soft tissue past the apex
Endo-Eze AET Instrument System

- Faster
- Simpler
- Operator friendly method of instrumentation
- File-Eze EDTA chelator easily delivered through Navi-Tip to near apex
- Small number of low cost instruments
Endo-Eze AET
Instrument System

- Labelled single patient kits
- Less breakage/”separation”
- Minimum cross contamination
  - Patient kit maintains unique anti-microbial environment between visit’s
- Predictable results
UltraTemp

- Hydrophillic, polycarboxylate, non-eugenol, temporary luting/filling material
- First temporary polycarboxylate
- Water soluble until set for easy cleanup
- Kind to pulp and quality seal
- Will not interfere with resin bonding
- Regular and firm set
UltraTemp (Applications)

- Routine temporary cementation of crowns, bridges, inlays and onlays
- Temporary filling of small endodontic access openings. Great with walking bleach (non-vital) treatments.

- Working Time
  - 2 – 2 ½ minutes

- Setting Time
  - 4 ½ – 5 minutes
Ultra-Temp
(Features/Benefits)

- Polycarboxylate
  - Low irritation to pulp
  - Great sealing capabilities

- Water soluble (until set)
  - Facilitates easy clean up

- Permeable to water
  - Seals out bacteria
  - Prevents preparation dehydration
UltraTemp (Features/Benefits)

- Regular & Firm Set
  - Consistency to meet all needs
  - Regular set – routine 2-4 week temporization
  - Firm set – longer retention/ interim restorations on implants

- TwoSpense 2 Dispensing
  - No air exposure
  - No mess or waste from tubes/accurate mix
  - Can be mixed via tip or mixing pad
Deliver mixed Ultra-Temp

Wipe off excess easily

Finished

Easily removed
Mix & Deliver

Excess UltraTemp easily removed

Quality Seal !!!

Residual cement easily removed
Tissue kind

Consepsis Scrub and ICB