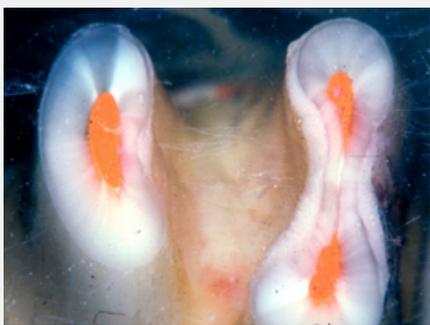


# The Science of Endodontic Treatment Success and Failure



The danger and safety zones of root canal anatomy are biological foundation of the Anti-Curvature Filing (ACF) technique. ACF prevents root strippings and perforations during manual and mechanical canal preparation or during post space preparation.

## When endodontic treatment fails, look for coronal and apical leakage into the main canal as the reason for the problem.

The statistics are alarming: The global prevalence of apical lesions with substandard endodontically treated teeth (ETT) is 24%–60%. The documented prevalence of apical lesions in endodontically untreated teeth (EUT) is 1½% - 7%.

The session covers **best practices in initial endodontic treatment** to ensure the *lowest possible rates of retreatment*. Designed specifically to close gaps in clinical and procedural training and education, the course clears up the myths and mysteries of endodontic treatment success, covering the most common causes of endodontic treatment failure and how to prevent it.

Most apical endodontic problems are cured by a standard-of-quality initial treatment or retreatment. Few may ever require surgery. In practice, 80% of endodontic treatment failures are attributed to root canal preparation errors. Ledging, stripping, perforating and instrument breakage cause incomplete root filling, dead spaces and apical leakage which are the leading causes of endodontic treatment failure.

Dr. Abou-Rass, global pioneer and renowned educator in the field, covers the most common methods, materials, and clinical practices that result in substandard initial outcomes, cause apical periodontitis formation, or prevent healing. Excessive gutta-percha condensation and mechanical compaction generate forces that propagate existing micro-cracks into root line cracks and fractures.

Regardless of the patient signs and symptoms, the radiographic diagnosis of a tooth with poor technical quality endodontic treatment should be considered dental treatment risk factor.

## Learning Objectives:

- Learn how to clinically benefit from the historic analysis and review of treatment errors and failures of the silver point treatment era, paste fillers era, and single point gutta-percha methods.
- Review the clinical and biologic guiding principles for evidence-based and successful endodontic treatment.
- Describe critical endodontic anatomy.
- Enumerate the practices that cause technically sub-standardized endodontic treatment outcomes.
- Define pre-endodontic treatment considerations regarding the patient, the tooth, and the armamentarium setup.
- Discuss the criteria of acceptable and unacceptable endodontic access preparations.
- Review best practices in root canal preparation methods.
- Describe the anti-curvature filing method: manual and automated.
- Review Best practices in root canal obturation methods.

**Suggested Audience:** General Practitioners

**Suggested Format:** 1 or 2 Day, Partial Day, Keynote; Lecture, Demonstration and/or Hands-On Training

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