Title: Mastering Reciprocation Shaping: Innovations in Modern Endodontics

Category	**Endodontics**
Speaker	Sergio Quaresma
Live Date	March 25, 2026
CE Credits	1 Hour AGD &CPD
AGD Code	070
GDC Dev. Outcome	C
Suggested Course Tags	Endodontics
Featured Products	Reciproc® Blue, WaveOne® Gold
Post Course Suggestions	N/A

Course Description
This presentation examines the principles and clinical applications of reciprocating endodontic instrumentation. Reciprocating kinematics are discussed in comparison with continuous rotation, highlighting their relevance in both non-surgical root canal treatment and endodontic retreatment procedures. Emphasis is placed on the mechanical behavior, shaping efficiency, and safety profile of these systems, as well as their performance in complex canal anatomies. Advances in instrument design—particularly in metallurgy, thermomechanical processing, and file geometry—have significantly improved flexibility, resistance to cyclic fatigue, and cutting efficiency. These developments not only enhance clinical effectiveness but also streamline workflow, contributing to greater predictability and efficiency for the clinician. Overall, the evolution of reciprocating instrumentation represents a meaningful progression in endodontic practice, offering practical advantages that support improved treatment outcomes.

Course Link

Learning Objectives:
This course aims at teaching learners to:

1. Compare reciprocating and continuous rotation kinematics, identifying at least three clinical implications for non-surgical root canal treatment and retreatment.
2. Evaluate the mechanical behavior and shaping efficiency of reciprocating instrumentation systems, citing two advantages related to safety and performance in complex canal anatomies.

SEO Title	Mastering Reciprocation: Modern Endodontic Innovations
Meta Description	Explore reciprocating instrumentation principles, clinical applications, and advances shaping modern endodontics.

SEO Keywords and Tags	reciprocating endodontics, endodontic instrumentation, root canal treatment, endodontic retreatment, shaping efficiency, cyclic fatigue resistance, file design, metallurgy in endodontics, thermomechanical processing, endodontic workflow, modern endodontics, clinical endodontics, dental CPD, endodontic safety, canal anatomy

CPD Course Aim	To enhance clinicians' understanding of reciprocating endodontic instrumentation by exploring its principles, clinical applications, and recent innovations in design and performance, supporting improved treatment outcomes and workflow efficiency.
CPD Course Objectives	This course aims at teaching learners to: 1. Compare reciprocating and continuous rotation kinematics, identifying at least three clinical implications for non-surgical root canal treatment and retreatment. 2. Evaluate the mechanical behavior and shaping efficiency of reciprocating instrumentation systems, citing two advantages related to safety and performance in complex canal anatomies.