

Epiphany® Case of the Month

Pre-Op



Epiphany case description and radiographs courtesy of Dr. Harald Prestegaard, Sarpsborg, Norway



A 15 year-old female presented for treatment of her mandibular left first molar. The tooth was tender to percussion, did not respond to pulp testing with Endo Ice®¹, and exhibited a radiolucency around both apices that extended into the bifurcation. The diagnosis was apical periodontitis with a sinus tract. Root canal therapy was recommended.

Post-Op



Local anesthesia was administered, a rubber dam was applied and an access cavity was prepared. Working lengths were established with a #15 K-Flex®² file and a Root ZX®³ apex locator. The canals were instrumented with NiTi rotary instruments. The canals were irrigated with 1% sodium hypochlorite and 17% EDTA during the instrumentation followed by a 5 minute soak in 2% chlorhexidine digluconate. Calcium hydroxide was used as an interappointment dressing and the access cavity was sealed with Cavit®-G⁴ and IRM®⁵.

When the patient returned in 6 weeks, the tooth was asymptomatic and the sinus tract was closed. The calcium hydroxide was removed with NiTi instruments. Irrigation was completed with 1% sodium hypochlorite followed by 17% EDTA. The canal was dressed for 5 minutes with 2% chlorhexidine digluconate. Resilon™* cones were tried in, and a radiograph was taken. The root canal was dried with sterile paper points. The canals were conditioned with Epiphany® primer and excess was dried with paper points. Epiphany® sealer was applied with a lentulo spiral and Resilon™* points coated with sealer. The obturation was performed using cold lateral condensation. The root-fillings were removed 2mm apical to the orifices and sealed with IRM®⁵ plugs. The access cavity was filled with IRM®⁵ and a final radiograph was taken.

5 months



At the 5 month follow up, the patient was asymptomatic. Clinical and radiographic examination revealed favorable healing.

For available research and more case radiographs using the Epiphany® System and Resilon™* obturation material, please visit www.resilonresearch.com.

For information on the Epiphany® Soft-Resin Endodontic Obturation System call Pentron Clinical Technologies at 1-800-551-0283 or visit www.pentron.com.



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2. K-Flex is a registered trademark of Sybron Dental Specialties, Inc.
3. Root ZX is a registered trademark of J. Morita USA, Inc.
4. Cavit is a registered trademark of 3M ESPE.
5. IRM is a registered trademark of Dentsply.

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