PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen Career Development Program

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

Produced by **ADVANCED ENDODONTICS**Clifford J. Ruddle, DDS (Founder/Director)

Materials Included:

C.E. Instruction Sheet
Product/Supplier Lists
Clinician Responsible
Goals & Objectives
Overview
Supplemental Materials
AGD Post-Test

Gordon J. Christensen PRACTICAL CLINICAL COURSES

PROCEDURE FOR RECEIVING CE CREDIT FOR VIDEO COURSES

- 1. Complete the enclosed Post-Test.* For each <u>CE Video Purchased</u>, one complimentary test is included. Additional tests are \$35/person per test. Fees can be paid either by check or credit card when tests are submitted to Practical Clinical Courses. If more than 10 CE tests are required per video, please contact PCC @ 800-223-6569.
- 2. Complete the demographic information located at the end of the test.

Type of Credit:

- a. If the applicant selects "State," PCC will issue a certificate of verification to the applicant. The applicant must then submit this certificate to their state board to obtain credit.
- b. If the applicant selects "AGD," PCC will submit credit information to the Academy of General Dentistry and confirmation to the applicant that it has been submitted (the applicant may check their AGD transcript for verification please allow 30 days).
- c. If the applicant selects "Both," PCC will complete a. & b. above.
- 3. Return the **Post-Test portion** via mail, fax, or email. Our contact information is as follows:

Practical Clinical Courses 3707 N Canyon Road Suite 3D Provo, UT 84604 Fax: (801) 226-8637 cetests@pccdental.com

4. Practical Clinical Courses will correct the Post-Test. Passing scores are 70% or higher.

*TO OBTAIN CE CREDIT ONLINE: Login or create an account on www.pccdental.com and select "My CE Tests" from the left-side menu. Click on the video title to take the test online. RESULTS ARE IMMEDIATE. Missing the test? Contact us at 800-223-6569 during our business hours of 7:00 a.m. — 4:00 p.m. MST to add it to your account.

Clifford J. Ruddle

ADVANCED ENDODONTICS

Sources of Products Discussed in

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability Presented by: Clifford J. Ruddle, DDS

ITEM	DESCRIPTION	BRAND / COMPANY	
Edge-Ease	X-ray Comfort Cushions	Strong Dental / Schein	
Rubber Dam	Handidam (one size)	Aseptico / Dentsply Tulsa Dental	
Rubber Dam Frame	Ostby Type - Part no. 547-3539	Hygenic / Schein	
Rubber Dam Clamps	Molars (26, 8A), Anteriors (9), Bi's (9)	Ivory or Hu-Friedy / Schein	
Hot Pulp Test Tip	For thermal testing	SybronEndo or Schein	
Mirror Handle w/Ruler	Item #100-8125	Schein	
Stropko Irrigator	Tri-plex syringe adapter	Dr. John Stropko	
Metalift	Crown & Bridge Remover	Classic Practice Resources	
Endo Access Kit	Assorted Burs & X-Gates	Dentsply Tulsa Dental	
BursTransmetal	1958 or 2158 FG	Brasseler	
Round Surgical Length	FG 2, 4 Carbide	Brasseler	
Tapered Diamonds	Round End (6856L-014) / Needle (859-010)	Brasseler	
IRRIGANTS / DEVICES:			
Irrigating Syringes	3cc, 23 gauge (notched tip)	Monoject / Schein	
Navi-Tip	29 gauge (notched tip), 21 mm	Ultradent	
NaOCl Warmer	Sm. hotplate for warm water bath	Mr. Coffee	
Water Beaker	2651A (3x3) For NaOCl syringes	Profex Medical Products	
RC Prep or Glyde	Viscous chelator	Schein	
Syringe for RC Prep / Glyde	1cc Plastic #0124	Ultradent	
Tip for syringe / Stropko Irrigator	White Mac #0661	Ultradent	
17% EDTA	Aqueous chelator	Roth International	
Calcium Hydroxide	Interappointment dressing	Pulpdent / Schein	
Xylol/Chloroform	Clean excess sealer off walls / Remove cements	Schein	
HAND INSTRUMENTATION:			
Files / 10, 15	K-Files	Dentsply Maillefer	
Files / 20, 25, 30	Flexofiles	Dentsply Maillefer	
Files / 35, 40, 50, 60	SureFlex	Dentsply Maillefer	
ProTaper Hand Files	Snap-on handles (SX, S1, S2, F1, F2, F3)	Dentsply Tulsa Dental	
Bird Beak Plier	For precurving NiTi hand files	Hu-Friedy / Schein	
Endo Ring	Blue Ring w/Foam Inserts	Jordco / Schein	
Micro Openers & Debriders	All Sizes	Dentsply Maillefer	
ROTARY INSTRUMENTATION:			
ProTaper Rotary Files	SX, S1, S2, F1, F2, F3, F4, F5	Dentsply Tulsa Dental	
ProTaper Retreatment Files	D1, D2, D3	Dentsply Tulsa Dental	
ProFile Orifice Shapers	Sizes 20-50	Dentsply Tulsa Dental	
ProFile .04 Tapers	Sizes 35-50	Dentsply Tulsa Dental	
X-Gates	Single Instrument (Gates Gliddens 1-4)	Dentsply Tulsa Dental	
Gates Glidden Drills	Stainless Steel Sizes 1-6	Dentsply Maillefer	

(Continued)

ITEM	DESCRIPTION	BRAND / COMPANY	
CROWN & BRIDGE REMOVAL:			
Crown Splitter	Removing restorative segments	SybronEndo	
K.Y. Pliers	Grasping Instrument	G.C. America / Schein	
Wynman Crown Gripper	Grasping Instrument	Miltex Instrument / Schein	
Crown-a-matic	Percussive Instrument	Peerless / Schein	
Coronaflex	Percussive Instrument	KaVo America	
Metalift	Passive/Active Instrument	Classic Practice Resources	
Kline Crown Remover	Passive/Active Instrument	Brasseler	
Richwil	Accessory Device	Almore / Schein	
Rand	Accessory Device	J.R.Rand / Schein	
CANAL OBSTRUCTIONS:			
Stieglitz Forceps	Silver point removers	Hu-Friedy / Schein	
Spinal Tap Needle	18, 20, 22 g., 2 1/2", SS-1529 Blunt	Ranfac	
Instrument Removal System (iRS)	Remove silver points, carriers or files	Dentsply Tulsa Dental	
Ruddle Post Removal System	Post Remover Kit	SybronEndo	
Roto-Pro Burs (Variety of sizes)	Rotosonic Scalers for Post Removal	Ellman	
Gyro-Tip	For Fiber Post Removal	Ultradent	
PASTE REMOVAL:			
Endosolv E	Eugenate Based Paste	Endoco	
Endosolv R	Resin Based Paste	Endoco	
PERFORATION REPAIRS:			
ProRoot (MTA)	Mineral Trioxide Aggregate	Dentsply Tulsa Dental	
SuperEba	Resin cement	Harry J. Bosworth / Schein	
Calcium Sulfate	Medical Grade	Life Core Biomedical	
CollaCote	Absorbable collagen dressing	Sulzer Dental	
West Perf Repair Instruments	West 1-2, West 3-4	SybronEndo	
Spinal Tap Needle	18 g. for delivering ProRoot	Ranfac	
Dovgan Carriers	ProRoot (MTA) Carrier	Quality Aspirators	
ADHESION DENTISTRY:			
Curing Light	Demetron or Pro-Lite	SybronEndo or Maillefer	
Focu Tips	For narrowing light beam	SmartPractice	
Tubulicid Red	For cleaning enamel & dentin	Global Dental	
Etch-37	Etchant 37% Phosphoric Acid	Bisco	
Tooth Conditioner Gel	Etching gel in syringe	Caulk / Schein	
Microbrush	Etching & bonding	Schein	
Benda Brush	Applicator brush	Centrix / Schein	
OBTURATION:			
Gutta Percha	Fine-Medium / Medium or ProTaper Matching	Dentsply Tulsa Dental	
Pulp Canal Sealer - EWT	Powder & Liquid	Kerr / Schein	
5004 Touch 'N Heat	Heat Source 0.5mm plugger tip	Kerr / Schein	
Pluggers	Sizes 8-12 Posterior	Schilder / Dentsply Maillefer	
Calamus Flow	Gutta Percha Delivery System for backpacking	Dentsply Tulsa Dental	
Calcium Hydroxide	Interappointment dressing	Pulpdent Corp / Schein	

(Continued)

ITEM	DESCRIPTION	BRAND / COMPANY	
EQUIPMENT:			
EndoActivator System	Sonic Handpiece Driver & Activator Tips	Dentsply Tulsa Dental	
Slowspeed Electric H.P.	Gear Reduction / DTC Motor	Dentsply Tulsa Dental	
Slowspeed Electric or Air	Gear Reduction	KaVo America	
Ultrasonic Unit (Piezoelectric)	P5 Ultrasonic Generator	Dentsply Tulsa Dental	
Ultrasonic Instruments	ProUltra ENDO 1-5, ENDO 6-8, SINE 1-6	Dentsply Tulsa Dental	
File Adapter	FA11 (file holder)	SybronEndo	
Electronic Apex Locator	Root ZX	J. Morita	
Microscope	A variety of choices	Zeiss	
Dental Mobile Cart	Customized Endodontic Cart	ASI Medical	
Digital Xray System	Digital Radiography	Schick Technologies	
Dental Anatomy Website	Patient Education Tool	ToothAtlas.com	

For any questions regarding the products and/or techniques presented, please contact:

Clifford J. Ruddle ADVANCED ENDODONTICS

Sources of Suppliers Discussed in

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability Presented by: Clifford J. Ruddle, DDS

COMPANY	TOLL FREE	FAX	PHONE	WEBSITE
Advanced Endodontics	800-753-3636	805-965-8253	805-964-8838	endoruddle.com
Aseptico	800-426-5913	360-668-8722	425-487-3157	aseptico.com
ASI Medical	800-566-9953	303-766-8584	303-766-3646	asimedical.net
Bisco	800-247-3368	800-959-9550	847-534-6000	bisco.com
Brasseler	800-841-4522	888-610-1937	912-927-8671	brasselerusa.com
C. K. Dental Specialties	800-675-2537	714-639-6991	714-639-6990	ckdental.net
CareCredit	800-859-9975	800-333-3196		carecredit.com
Classic Practice Resources	800-928-9289	888-841-5384	225-928-0799	metalift.com
Dentco	800-454-9244	914-948-1711	914-682-6600	dentcorp.com
Dentsply Maillefer	800-924-7393	800-924-7389		maillefer.com
Dentsply Tulsa Dental Spec.	800-662-1202	918-493-6599	918-493-6598	tulsadental.com
Designs for Vision	800-727-6407	631-585-3404	631-585-3300	designsforvision.com
Ellman International	800-835-5355	516-569-0054	516-594-3333	ellman.com
Endoco	800-388-7868	866-683-6679	901-683-6677	endoco.com
Global Dental Products		516-785-7885	516-221-8844	gdpdental.com
Global Surgical	800-767-8726	636-861-2969	636-861-3388	globalsurgical.com
Hu-Friedy	800-483-7433	800-729-1299	877-321-4333	hu-friedy.com
J. Morita USA	888-566-7482	949-465-1095	949-581-9600	jmoritausa.com
KaVo America	800-323-8029	847-550-6825	847-550-6800	kavo.com
Life Core Biomedical	800-348-4368	952-368-3411	952-368-4300	lifecore.com
Link Ergonomics	800-424-5465	417-206-4622	417-206-4600	linkdental.com
Marquis Dental	800-359-3206	303-344-5232	303-344-5222	perio-aid.net
Moyco Precision Abrasives	800-331-8837	215-362-3809	215-855-4300	moycotech.com
Mr. Coffee	800-672-6333			mrcoffee.com
Profex Medical Products	800-325-0196	901-454-9850	901-452-7485	profexmed.com
Quality Aspirators	800-858-2121	972-298-6592	972-298-2669	qualityaspirators.com
Ranfac	800-272-6322	508-584-8588	508-588-4400	ranfac.com
Roth International Ltd.	800-445-0572	312-733-7398	312-733-1478	rothendo.com
Henry Schein	800-372-4346	800-732-7023	775-327-3200	henryschein.com
Schick Technologies	877-724-4254	718-482-2030	718-937-5765	schicktech.com
SmartPractice	800-522-0800	800-522-8329	602-225-0595	smartpractice.com
Stropko, Dr. John		480-563-7881	480-515-4933	stropko.com
SybronEndo	800-346-3636	714-516-7936	714-516-7979	sybronendo.com
ToothAtlas.com		650-854-2568	650-233-0200	eHuman.com
Ultradent	800-552-5512	800-842-9024	801-572-4200	ultradent.com
Zeiss	800-442-4020	925-557-4101	925-557-4100	zeiss.com
Zimmer Dental	800-854-7019	760-431-7811	760-431-9515	zimmerdental.com

PROGRAM

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

CLINICIAN RESPONSIBLE: Clifford J. Ruddle, DDS

Founder and Director, Advanced Endodontics

GOALS & OBJECTIVES

At the completion of this video presentation, participants should be able to accomplish the following:

- 1. Identify the rationale for nonsurgical endodontic retreatment.
- 2. Compare survival rates between the restored, retreated tooth and the dental implant.
- 3. Contrast the various devices for removing fixed restoratives intact.
- 4. Utilize "microsonic" procedures to remove core materials from the pulp chamber.
- 5. Locate and successfully treat previously missed canals.
- 6. Describe appropriate patient communication tools and teamwork.
- 7. Identify the proper scheduling and fee model for success.

OVERVIEW

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

There is a need to communicate well with patients concerning endodontic retreatment. This video shows the instruments and techniques for removing restorative materials, identifying and treating missed canals, and scheduling and fee considerations. A review of root canal system anatomy and its role in endodontic prognosis is followed by a systematic analysis of those factors commonly implicated in endodontic failure. Evidence-based procedures are clearly demonstrated utilizing the most proven, effective, and state-of-the-art techniques. Multi-disciplinary treatment planning, case selection, and retreatment fees are emphasized in order to improve clinical results, professional satisfaction, and profitability. This program is designed for the dental team whose vision is the long-term retention of critically essential teeth.

Techniques in this video are demonstrated utilizing 3D graphics and animations, in plastic models, on extracted teeth, and on patients. All procedures have been performed to optimally transfer knowledge and maximize the learning experience.

SUPPLEMENTAL MATERIALS

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

- 1. Allen RK, Newton CW, Brown CE: A statistical analysis of surgical and non-surgical endodontic retreatment cases, *J Endod* 15:6, 1989.
- 2. Barkhordar RA, Stewart GG: The potential of periodontal pocket formation associated with untreated accessory root canals, *Oral Surg Oral Med Oral Pathol* 70:6, 1990.
- 3. Burns RC, Herbranson EJ: Ch. 7, Tooth morphology and cavity preparations. *Pathways of the Pulp*, 7th ed., Mosby Co., St. Louis, 1998.
- 4. Hess W, Zürcher E: *The Anatomy of the Root Canals of the Teeth of the Permanent and Deciduous Dentitions*, William Wood & Co, New York, 1925.
- 5. Kois JC: The restorative-periodontal interface: biological parameters, *Periodontology 2000* 11:29-38, 1996.
- 6. Milot P, Stein RS: Root fracture in endodontically treated teeth related to post selection and crown design, *J Prosthet Dent* 68:428, 1992.
- 7. Parreira FR, O'Connor RP, Hutter JW: Cast prosthesis removal using ultrasonics and a thermoplastic resin adhesive, *J Endod* 20:3, 1994.
- 8. Ruddle CJ: How to profit from endo: finding the fair fee for endodontics, *Dental Economics* 88:11, pp. 30-42, 1998.
- 9. Ruddle CJ: Microdentistry: identification & treatment of MB^{II} systems, *J Calif Dent Assoc* 25:4, 1997.
- 10. Ruddle CJ: Microendodontic nonsurgical retreatment, in *Microscopes in Endodontics, Dental Clinics of North America* 41:3, pp. 429-454, W.B. Saunders, Philadelphia, July 1997.
- 11. Schilder H: Filling the root canals in three dimensions, Dent Clin North Am, p. 723, November 1967.
- 12. Schilder H: Ch. 6, Canal debridement and disinfection, *Pathways of the Pulp*, 1st ed., Mosby Co., St. Louis, 1976.
- 13. Shanelec DA, Tibbetts LS: A perspective on the future of periodontal microsurgery, *Periodontology* 2000 11:58-64, 1996.
- 14. Sorensen JA, Engelman MJ: Ferrule design and fracture resistance of endodontically treated teeth, *J Prosthet Dent* 63:529, 1990.
- 15. Southard DW: Immediate core buildup of endodontically treated teeth: the rest of the seal, *Pract Periodont Aesthet Dent* 11:4, pp. 519-526, 1999.
- 16. Stabholz A, Friedman S, and Tamse A: Ch. 25, Endodontic failures and retreatment, *Pathways of the Pulp*, 6th ed., Mosby Co., St. Louis, 1994.
- 17. Stropko JJ: Canal morphology of maxillary molars: clinical observations of canal configurations, *J Endod* 25:6, pp.446-450, 1999.
- 18. Weller RN, Niemczyk SP, Kim S: Incidence and position of the canal isthmus. I. Mesiobuccal root of the maxillary first molar, *J Endod* 21:380, 1995.

POST-TEST

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

- 1. An issue that should be considered when choosing between retreatment or extraction is:
 - a. what does the patient want.
 - b. is it a strategic tooth.
 - c. is the tooth restorable.
 - d. all of the above.
- 2. Generally, clinicians prepare the access cavity through a restoration if it is judged to be:
 - a. functionally designed, well-fitting, and aesthetically pleasing.
 - b. the most cost-effective way to proceed.
 - c. desirable to the patient.
 - d. better than any alternative choice.
- 3. In a maxillary first molar, the clinical presence of an MB2 system is over:
 - a. 60% of the time.
 - b. 75% of the time.
 - c. 90% of the time.
 - d. none of the above.
- 4. The tool that has a wedging device at its working end that when activated is designed to dislodge restorative segments is the:
 - a. Wynman Crown Grippers.
 - b. Crown Splitter.
 - c. Coronaflex.
 - d. Metalift.
- 5. In general, restorative removal devices can be divided into the following three categories:
 - a. nonactive, vibratory, and active instruments.
 - b. grasping, percussive, and active instruments.
 - c. nonactive, active, and reactive instruments.
 - d. passive, forceful, and intermediary instruments.
- 6. The best placement of the KY Pliers in the removal of a restorative is:
 - a. on the occlusal aspect of the tooth.
 - b. on the cervical aspect of the tooth near the gingival margin.
 - c. on the buccal and lingual surface of the tooth below the heights of contour.
 - d. none of the above.
- 7. A passive device for removing restoratives that involves a precision channel is the:
 - a. Kline Crown Remover.
 - b. Coronaflex.
 - c. Crown-A-Matic.
 - d. Metalift.

POST-TEST (CONT'D)

V1331 Nonsurgical Retreatment: Disassembly & Missed Canals, Quality & Profitability

- 8. An advantageous feature of the Micro-Opener is:
 - a. an offset handle.
 - b. double and triple tapers.
 - c. it can be precurved.
 - d. all of the above.
- 9. Which of the following is not a specific technique mentioned for locating previously missed canals:
 - a. explorer pressure
 - b. the champagne test
 - c. the dentinal line test
 - d. ultrasonic instrumentation
- 10. During endodontic retreatment procedures, vision may be enhanced by:
 - a. magnification.
 - b. transillumination.
 - c. removing the restorative.
 - d. all of the above.

PLEASE PRINT

Name
Name of video purchaser (if different from above)
Address
City/State/Zip
Phone No
Email
Indicate which type of credit you wish to obtain: □ AGD □ State □ Both
State License NoAGD No
Payment information 🗆 Visa 🗆 American Express 🗆 Mastercard 🗆 Discover
Card # Expires / CVV2-Code:
For each CE Video Purchased , one complimentary test is included. If you require CE tests for <i>staff members or additional docto</i>

If more than 10 CE tests are required per video, please contact PCC @ 800-223-6569.

to receive credit, the fee is \$35/person per test.