

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

V1925 Optimal Fixed Prosthodontic Tooth Preparations

Gordon J. Christensen, DDS, MSD, PhD

Materials Included

C.E. Instruction Sheet
Products List
Clinician Responsible
Goals & Objectives
Overview
References
AGD Post-Test

Gordon J. Christensen
PRACTICAL CLINICAL COURSES

PROCEDURE FOR RECEIVING
ACADEMY OF GENERAL DENTISTRY
AND STATE CREDIT
FOR DVDS

1. Complete the enclosed Post-Test.* For each **CE Video Purchased**, one test is included. If additional tests are needed, the following fees will apply: \$25 per test for 1 additional dentist; \$10 per test for each auxiliary (dental assistants, hygienists, lab technicians - no limit on auxiliary tests). Fees can be paid either by check or credit card when tests are submitted to Practical Clinical Courses.
2. Complete the demographic information located at the end of the test.
Type of Credit:
 - a. If the applicant selects "State," PCC will send a certificate of verification to the applicant. The applicant must then submit this certificate to his/her 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
info@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. – 5:00 p.m. MST to add it to your account.

Gordon J. Christensen
PRACTICAL CLINICAL COURSES

Sources of Products Discussed in

V1925 Optimal Fixed Prosthodontic Tooth Preparations

Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. **Blu-Mousse (Super Fast)**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
2. **Brush & Bond**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
3. **Burs (1170, 1171, 1171L, 330)**
Dentsply Professional
1301 Smile Way
York, PA 17404
(800)800-2888
(717)767-8500
www.professional.dentsply.com
4. **Christensen Crown Remover**
Hu-Friedy Mfg. Co.
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
(773)975-6100
www.hu-friedy.com
5. **Clearfil DC Bond**
Kuraray America, Inc.
Dental Department
33 Maiden Lane
Suite 600-D
New York, NY 10038
(800)879-1676
(212)986-2230
www.kuraraydental.com
6. **Copper Bands**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
7. **Core Paste**
DenMat Holdings, LLC
P.O. Box 1729
Lompoc, CA 93438
(800)433-6628
(805)346-3700
www.denmat.com
8. **Diamond (Two Striper)**
Premier Dental Products Co.
1710 Romano Drive
Plymouth Meeting, PA 19462
(888)670-6100
(610)239-6000
www.premusa.com
9. **Dyract eXtra**
Dentsply Caulk
38 West Clarke Avenue
Milford, DE 19963-0359
(800)532-2855
(302)422-4511
www.caulk.com
10. **Electric Handpieces:**
Brasseler USA Dental
One Brasseler Blvd.
Savannah, GA 31419
(800)841-4522
(912)925-8525
www.brasselerusa.com
11. **F2000 Compomer Restorative**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
12. **FibreKor Post**
Pentron Clinical
1717 West Collins Avenue
Orange, CA 92867
(800)551-0283
(714)516-7557
www.pentron.com
13. **Filpin**
Filhol Dental USA
19 West 34th Street
Suite 916
New York, NY 10001
(212)714-9250
www.filhol.com

- | | | |
|---|--|--|
| <p>14. GC Fuji Lining LC
GC America
3737 West 127th Street
Alsip, IL 60803
(800)323-7063
(708)597-0900
www.gcamerica.com</p> | <p>19. Optibond All-In-One
Kerr Corporation
1717 West Collins Avenue
Orange, CA 92867
(800)537-7123
(714)516-7400
www.kerrdental.com</p> | <p>24. Ultrapak
Ultradent Products, Inc.
505 West 10200 South
South Jordan, UT 84095
(888)230-1420
(801)572-4200
www.ultradent.com</p> |
| <p>15. Gingi-Pak
Gingi-Pak
4825 Calle Alto
P.O. Box 240
Camarillo, CA 93011-0240
(800)437-1514
(805)484-1051
www.gingi-pak.com</p> | <p>20. Protemp™ 3 Garant™
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com</p> | <p>25. Vitrebond
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com</p> |
| <p>16. ½ Hollenbeck Carver
Local Dental Supplier</p> | <p>21. Roeko Stay-Put
Coltene/Whaledent
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(800)221-3046
(330)916-8800
www.coltene.com</p> | <p>26. Zekrya Gingival Protector
DMG America
242 South Dean Street
Englewood, NJ 07631
(800)662-6383
(201)894-5505
www.dmg-america.com</p> |
| <p>17. Micro-Fill Composite Finishing Kit
E.C. Moore Company
13325 Leonard Street
Dearborn, MI 48126
(800)331-3548
(313)581-7878
www.ecmoore.com</p> | <p>22. Sideless Triple Tray
Premier Dental Products Co.
1710 Romano Drive
Plymouth Meeting, PA 19462
(888)670-6100
(610)239-6000
www.premusa.com</p> | |
| <p>18. Neodiamond (Round End Taper #1116.8C)
Microcopy
3120 Moon Station Road N.W.
Kennesaw, GA 30144
(800)235-1863
(770)425-5715
www.microcopydental.com</p> | <p>23. Triad TruTray
Dentsply Prosthetics
570 West College Avenue
York, PA 17405
(800)786-0085
(717)845-7511
www.prosthetics.dentsply.com</p> | |

Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.

**Gordon J. Christensen Practical Clinical Courses, 3707 North Canyon Road, Suite 3D, Provo, UT 84604
Toll Free (800) 223-6569 or Utah Residents (801) 226-6569**

The techniques and procedures on this videotape are intended to be suggestions only. Any licensed practitioner viewing this presentation must make his or her own professional decisions about specific treatment for patients. PCC is not responsible for any damages or other liabilities (including attorney's fees) resulting, or claimed to result in whole or in part, from actual or alleged problems arising out of the use of this presentation.

PROGRAM

V1925 Optimal Fixed Prosthodontic Tooth Preparations

CLINICIAN RESPONSIBLE

Gordon J. Christensen, DDS, MSD, PhD
CEO, Practical Clinical Courses
CEO, CR Foundation
Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

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

1. Describe the importance of fixed prosthodontics in current dental practice.
2. Discuss the nature of current challenges in fixed prosthodontic procedures.
3. Describe and draw an ideal tooth preparation for ceramic veneers.
4. Describe and draw an ideal tooth preparation for a full-metal crown.
5. Describe and draw an ideal tooth preparation for a porcelain-fused-to-metal crown.
6. Describe and draw an ideal tooth preparation for a three-quarter crown.
7. Describe and draw an ideal tooth preparation for an all-ceramic crown.
8. Discuss the instruments necessary for tooth preparations for crowns.
9. Compare air-driven handpieces with electric handpieces.
10. Discuss the types of diamond rotary instruments necessary for tooth preparations.
11. Describe several types of soft-tissue management techniques for fixed prosthodontic procedures.
12. List ten ways that dental pulp tissue may be harmed during fixed prosthodontic procedures.
13. Describe the differences between fillers and build-ups.
14. List the steps in placing a filler.
15. List the steps in placing a build-up.
16. Discuss the state-of-the-art in posts and cores.
17. Discuss frequently occurring errors in crown preparations.
18. Describe the difference between tooth preparation for a full-metal crown and a porcelain-fused-to-metal crown.
19. Describe the differences between tooth preparation for a porcelain-fused-to-metal crown and an all-ceramic crown.
20. Describe the differences between tooth preparation for a full-metal crown and an all-ceramic crown.

OVERVIEW

V1925 Optimal Fixed Prosthodontic Tooth Preparations

Tooth preparation is one of the ongoing challenges in fixed prosthodontic procedures. When visiting dental laboratories, inadequate tooth preparations are often encountered when stone dies are observed. This presentation includes tooth preparations for the following restorations: ceramic veneers, three-quarter crowns, full-metal crowns, porcelain-fused-to-metal crowns, and all-ceramic crowns. The following list includes the most common errors in tooth preparation for the aforementioned restorations:

- Inadequate incisal or occlusal tooth reduction
- Inadequate tooth reduction on axial walls
- Over reduction of tooth structure
- Too much taper
- Inadequate fillers or build-ups
- Indistinct margins
- Too much subgingival reduction
- Sharp angles on the tooth preparation
- Undercuts in the tooth preparation
- Tooth preparation too short

The presentation includes a demonstration of tooth preparations on dentiform teeth, followed by an actual clinical case requiring crowns. All of the steps in optimal tooth preparation are demonstrated in the clinical example.

REFERENCES

1. Christensen GJ. Ensuring retention for crowns and fixed prostheses. JADA 2003;134:993-95.
2. Christensen GJ. The confusing array of tooth-colored crowns. JADA 2003;134:1253-55.
3. Christensen GJ. Achieving optimum retention for restorations. JADA 2004;135:1143-45.
4. Christensen GJ. Post concepts are changing. JADA 2004;135:1308-10.
5. Christensen GJ. Restoring a single anterior tooth: solutions to a dental dilemma. JADA 2004;135:1725-27.
6. Christensen GJ. Longevity of posterior tooth dental restorations. JADA 2005;136:201-3.
7. Seymour KG, Samarawickrama DY, Zou L, Lynch E. Assessing the quality of shoulder preparations for metal ceramic crowns. Eur J Prosthodont Restor Dent. 1999 Dec;7(4):125-9.
8. Goodacre CJ, Campagni WV, Aquilino SA. Tooth preparations for complete crowns: an art form based on scientific principles. J Prosthet Dent. 2001 Apr;85(4):363-76.

POST-TEST

V1925 Optimal Fixed Prosthodontic Tooth Preparations

1. The facial surface of a crown preparation for a full crown on a mandibular molar:
 - a. is relatively straight up and down from the gingival margin to the occlusal surface.
 - b. is undercut for optimal strength.
 - c. follows the original contour of the facial surface of the tooth, tapering from the gingival margin toward the central aspect of the tooth.
 - d. none of the above.

2. The facial surface of a crown preparation for a full crown on a maxillary molar:
 - a. is relatively straight up and down from the gingival margin to the occlusal surface.
 - b. is undercut for optimum strength.
 - c. tapers from the gingival margin toward the central aspect of the tooth.
 - d. none of the above.

3. Which crown preparation has the deepest cut on the lingual surface?
 - a. full-metal crown
 - b. porcelain-fused-to-metal crown
 - c. all-ceramic crown
 - d. porcelain-fused-to-metal crown with ceramic margin

4. Fillers are needed:
 - a. to prevent impression material from having to spring out of undercuts and to reduce postoperative tooth sensitivity.
 - b. for added restoration strength.
 - c. for added crown retention.
 - d. to provide more income from third-party payers.

5. Build-ups are needed:
 - a. to prevent impression material from sticking to the tooth preparation.
 - b. for added restoration strength.
 - c. for added restoration retention.
 - d. for added restoration strength and retention.

6. In this video, it was suggested that:
 - a. several diamond rotary instruments should be used to make a crown preparation.
 - b. most crown preparations can be made with one shape of rotary diamond instruments.
 - c. tungsten steel burs should always be used for crown preparations.
 - d. one-use diamonds should not be used.

7. Crown margins should be placed:
 - a. slightly subgingival.
 - b. slightly supragingival.
 - c. either slightly subgingival, at the gingival line, or supragingival.
 - d. never on enamel.

POST-TEST (cont.)

V1925 Optimal Fixed Prosthodontic Tooth Preparations

- 8. Occlusal reduction of tooth structure for crowns was suggested to be:
 - a. 1 mm.
 - b. 2 mm.
 - c. 2-1/2 mm.
 - d. 3 mm.

- 9. Facial crown preparation margins for all-ceramic crowns should be:
 - a. beveled chamfers.
 - b. feather edges.
 - c. light chamfers.
 - d. heavy chamfers with a butt joint between tooth and crown.

- 10. Tooth preparations for ceramic veneers should be:
 - a. cut into dentin.
 - b. cut only into enamel, whenever possible.
 - c. cut about 1 mm deep.
 - d. cut about 1-1/2 mm deep.

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 No. _____ AGD No. _____

Payment information Visa American Express Mastercard Discover

Card # _____ - _____ - _____ - _____ Expires ____ / ____ CVV2-Code: _____

The test is complimentary for the purchaser. *If you require CE tests for staff members or an additional doctor to receive credit, the fees are:*

Dentist (limit 1 additional dentist per video purchase): \$25

Auxiliary (no limit): \$10 for each auxiliary taking test