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**V4745**  
**Dental Assisting for Posterior Restorations**

Gordon J. Christensen, DDS, MSD, PhD

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C.E. Instruction Sheet  
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**Gordon J. Christensen**  
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***Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.***

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## PROGRAM

### **V4745 Dental Assisting for Posterior Restorations**

#### CLINICIAN RESPONSIBLE:

**Gordon J. Christensen, DDS, MSD, PhD**  
*Founder and CEO, Practical Clinical Courses*  
*Senior Consultant & Previous 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. Discuss the importance of dental assistants in placing posterior tooth restorations.
2. Compare the productivity of using one dental assistant vs. two dental assistants when accomplishing posterior tooth restorations.
3. Discuss the overall responsibilities of dental assistants in relation to posterior tooth restorations.
4. Discuss the specific responsibilities of dental assistants relative to posterior tooth restorations.
5. Describe the importance of resin-based composite restorations.
6. Describe the operatory set-up for resin-based composite restorations.
7. Discuss tray set-ups for resin-based composite restorations.
8. Discuss pulp capping, when and how.
9. Describe proper mixing of resin-modified glass ionomer liners.
10. Describe the importance of bonding agents in posterior tooth restorations.
11. Discuss the importance of dental assistants relative to curing lights.
12. List the potential postoperative challenges often related to posterior tooth restorations.
13. Describe the importance of crowns in dentistry.
14. Describe operatory set-up for crown preparations.
15. List the steps in making an impression for crowns.
16. Differentiate among fillers, build-ups, and posts and cores.
17. Describe the responsibilities of dental assistants for the crown seating appointment.
18. List the potential postoperative challenges related to crown cementation.
19. List the subjects that should be included as instructions for patients after crown cementation.
20. Discuss the public relations responsibilities for dental assistants during the various appointments related to posterior tooth restorations.

## OVERVIEW

### **V4745 Dental Assisting for Posterior Restorations**

Dental assistants can greatly increase the productivity and quality of a typical general practice when accomplishing posterior tooth restorations. However, such changes require interaction of dentists and dental assistants, education, agreement on who does what and constant continuing education on the ever-present new concepts in the profession. The following and other topics are included in this presentation:

1. Importance of dental assistants in restorative dentistry
2. Number of dental assistants related to productivity
3. Overall responsibilities of dental assistants
4. Specific responsibilities of dental assistants
5. Resin-based composite restorations
6. Operatory set-up for resin-based composite restorations
7. Anesthetic delivery for resin-based composite restorations
8. Obtaining a dry field
9. Tooth preparation for resin-based composites
10. Pulp capping
11. Preventive restorative materials
12. Liners and bases
13. Bonding agents
14. Curing lights and curing resin
15. Resin-based composite placement
16. Finishing and polishing
17. Potential postoperative challenges
18. Instructions to the patient
19. Crown restorations
20. Operatory set-up for tooth preparation for crowns and fixed prostheses
21. Anesthetic delivery for crowns
22. Impressions for temporary tooth restoration
23. Initial tooth preparation
24. Fillers, build-ups, and posts and cores
25. Final tooth preparation
26. Tissue management
27. Impressions for crowns
28. Provisional restoration
29. Instructions for patient after crown preparation
30. Crown seating appointment
31. Operatory set-up for crown seating
32. Anesthetic or not for crown seating
33. Trying on the restoration
34. Disinfecting and desensitizing the tooth preparation
35. Cements compared
36. Cementing crowns
37. Cement debris removal
38. Potential postoperative challenges with crowns
39. Instructions for patients relative to crowns

## **SUPPLEMENTAL MATERIALS**

### **V4745 Dental Assisting for Posterior Restorations**

1. Christensen GJ. Will digital impressions eliminate the current problems with conventional impressions? JADA. 2008 Jun;139(6):761-3.
2. Christensen GJ. Ensuring accuracy and predictability with double-arch impressions. JADA. 2008 Aug;139(8):1123-25.
3. Christensen GJ. Salvaging crowns and fixed prostheses: when and how to do it. JADA. 2008 Dec;139(12):1679-82.
4. Christensen GJ. Improving dentist-technician interaction and communication. JADA. 2009 Apr;140(4):475-8.
5. Christensen GJ. Impressions are changing: deciding on conventional, digital or digital plus in-office milling. JADA. 2009 Oct;140(10):1301-4.
6. Christensen GJ. Developing your staff into a patient education team. JADA. 2009 Dec;140(12):1536-39.
7. Christensen GJ. Why use resin cements? JADA. 2010 Feb;141(2):204-6.
8. Christensen GJ. Are you using "gray-market" or counterfeit dental products? JADA. 2010 Jun;141(6):712-15.
9. Christensen GJ. Developing a great dental team. JADA. 1997 Dec;128(12):1703-4.
10. Christensen GJ. Educating dental staff for optimum patient service. JADA. 1999 Dec;130(12):1783-5.
11. Christensen GJ. Why expand the role of dental staff members? JADA. 2001 Apr;132(4):529-31.
12. Clancy S. Facing the challenge: recruitment & retention of staff. J Mass Dent Soc. 2004 Spring;53(1):18-21.
13. Clarke J. The dental team—PCDs. Where are we now? Dent Update. 2002 Apr;29(3):110-3.
14. Finkbeiner BL. Four-handed dentistry revisited. J Contemp Dent Pract. 2000 Nov 15;1(4):74-86.
15. Finkbeiner BL. Four-handed dentistry: instrument transfer. J Contemp Dent Pract. 2001 Feb 15;2(1):57-76.
16. Horst JA, Clark MD, Lee AH. Observation, assisting, apprenticeship: cycles of visual and kinesthetic learning in dental education. J Dent Educ. 2009 Aug;73(8):919-33.



## **SUPPLEMENTAL MATERIALS (CONT'D)**

### **V4745 Dental Assisting for Posterior Restorations**

17. Reese V. Dental assisting in the rough. Dent Assist. 2009 Jan-Feb;78(1):44, 46.
18. Robinson Vollman A, Wood R. Going beyond dental assisting to prevention. J Can Dent Assoc. 2009 Nov;75(9):647-8.
19. Waldman HB. Will there be a shortage of dental auxiliaries in the future? N Y State Dent J. 2002 Mar;68(3):20-1.
20. (No authors listed). Opinion survey on dental assisting duties. Iowa Dent J. 1995 Oct;81(4):25-8.

## POST-TEST

### **V4745 Dental Assisting for Posterior Restorations**

1. Resin-based composite restorations are best when placed in tooth preparations:
  - a. with isthmus cuts up to  $\frac{1}{5}$  of the cusp-tip-to-cusp-tip distance.
  - b. with isthmus cuts up to  $\frac{3}{4}$  of the cusp-tip-to-cusp-tip distance.
  - c. with isthmus cuts up to  $\frac{1}{2}$  of the cusp-tip-to-cusp-tip distance.
  - d. with isthmus cuts up to  $\frac{9}{10}$  of the cusp-tip-to-cusp-tip distance.
  
2. The most commonly used local anesthetics for placement of resin-based composite are:
  - a. lidocaine and articaine.
  - b. bupivacaine and articaine.
  - c. articaine and prilocaine.
  - d. mepivacaine and articaine.
  
3. \_\_\_\_\_ thickness rubber dam was suggested in this presentation.
  - a. Light
  - b. Medium
  - c. Heavy
  - d. None of the above
  
4. Materials suggested for pulp capping in this presentation were:
  - a. calcium phosphate.
  - b. calcium hydroxide and resin-modified glass ionomer.
  - c. bonding agents.
  - d. calcium phosphate and resin-modified glass ionomer.
  
5. Ketac Nano and Fuji II LC are:
  - a. glass ionomers.
  - b. composite resins.
  - c. resin-modified glass ionomers.
  - d. compomers.
  
6. Dark-colored resin-based composites require:
  - a. a light-colored liner.
  - b. longer light curing time than light colors.
  - c. shorter light curing time than light colors.
  - d. a thicker base than light colors.
  
7. Gluma glutaraldehyde containing liquid is a:
  - a. sterilizing agent.
  - b. desensitizer.
  - c. liner.
  - d. base.

**POST-TEST (CONT'D)**

**V4745 Dental Assisting for Posterior Restorations**

- 8. Most crowns placed by general dentists:
  - a. can be made using a double-arch impression tray.
  - b. are single crowns.
  - c. are porcelain-fused-to-metal.
  - d. all of the above.
  
- 9. Most provisional restorations are currently made using:
  - a. polymethylmethacrylate.
  - b. polyethylmethacrylate.
  - c. bis-acryl resin.
  - d. composite resin.
  
- 10. The most commonly used cement currently is:
  - a. resin-modified glass ionomer.
  - b. glass ionomer.
  - c. zinc phosphate.
  - d. polycarboxylate.

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