

PRACTICAL CLINICAL COURSES
A Service of the Gordon J. Christensen
Career Development Program

V1921
Cementing Restorations – Proven & Successful!

Gordon J. Christensen, DDS, MSD, PhD
Valinda Johnston, CDA, CPT

Materials Included:

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

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PRACTICAL CLINICAL COURSES

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Presented by Gordon J. Christensen, DDS, MSD, PhD & Valinda Johnston, CDA, CPT

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10. **Fleck's Zinc Phosphate Cement**
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PROGRAM

V1921 Cementing Restorations – Proven & Successful!

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, viewers should be able to:

1. Discuss the historical evolution of cements and how it relates to current cements.
2. List and discuss currently available provisional cements.
3. List the final cements that are most in use today.
4. List the ideal characteristics for dental cements.
5. Discuss resin-modified glass ionomer cements and their characteristics.
6. Discuss resin cements and their characteristics.
7. List the suggested cementing procedure for zirconia restorations.
8. List the suggested cementing procedure for lithium disilicate cements.
9. Discuss cementation of ceramic veneers.
10. Discuss the comparative use of cements.
11. Discuss the importance of selecting the correct cement for specific situations.
12. List and discuss the suggested cements for single crowns.
13. List and discuss the suggested cements for short-span fixed prostheses.
14. List and discuss the suggested cements for full-arch splinted fixed prostheses on natural teeth.
15. List and discuss the suggested cements for full-arch splinted fixed prostheses on implants.
16. Discuss suggested staff responsibilities for cementation procedures.
17. State how to remove cemented restorations.
18. List the limitations of current cements.
19. List the challenges for cementation procedures.
20. Implement the appropriate cement suggestions into your practice.

OVERVIEW

V1921 Cementing Restorations – Proven & Successful!

Dental cements continue to be improved frequently. However, there are still numerous needs to satisfy the known ideal characteristics for cements. Use of ceramic restorations has increased remarkably in recent years demanding significant changes in cement characteristics. This presentation is aimed at the present needs for cements and how to use them. Among the topics included are:

- The historical evolution of cements and how it relates to current cements
- Currently available provisional cements
- Final cements that are most in use today
- Ideal characteristics for dental cements
- Resin-modified glass ionomer cements and their characteristics
- Resin cements and their characteristics
- Suggested cementing procedure for zirconia restorations
- Suggested cementing procedure for lithium disilicate cements
- Cementation of ceramic veneers
- Comparative use of cements
- Importance of selecting the correct cement for specific situations
- Suggested cements for single crowns
- Suggested cements for short-span fixed prostheses
- Suggested cements for full-arch splinted fixed prostheses on natural teeth
- Suggested cements for full-arch splinted fixed prostheses on implants
- Suggested staff responsibilities for cementation procedures
- How to remove cemented restorations
- Limitations of current cements
- Challenges for cementation procedures
- Implementing the appropriate cement suggestions into your practice

SUPPLEMENTAL MATERIALS

V1921 Cementing Restorations – Proven & Successful!

1. Christensen GJ. Ask Dr. Christensen: Why are some zirconia crowns failing? Dental Economics. 2019 Dec;109(12):69-71, 73.
2. Tjäderhane L, Tezvergil-Mutluay A. Performance of Adhesives and Restorative Materials After Selective Removal of Carious Lesions: Restorative Materials with Anticaries Properties. Dent Clin North Am. 2019 Oct;63(4):715-29.
3. Christensen GJ. Ask Dr. Christensen: Which crown goes where? Dental Economics. 2019 Sep;109(9):62-6.
4. Nagarkar S, Theis-Mahon N, Perdigão J. Universal dental adhesives: Current status, laboratory testing, and clinical performance. J Biomed Mater Res B Appl Biomater. 2019 Aug;107(6):2121-2131.
5. Lawson NC, Litaker MS, Ferracane JL, Gordan VV, Atlas AM, Rios T, Gilbert GH, McCracken MS, National Dental Practice-Based Research Network Collaborative Group. Choice of cement for single-unit crowns: Findings from The National Dental Practice-Based Research Network. J Am Dent Assoc. 2019 Jun;150(6):522-30.
6. Christensen GJ. Ask Dr. Christensen: How do I request the best kind of zirconia crown? Dental Economics. 2019 Jun;109(6):80-82, 102.
7. Christensen GJ. Ask Dr. Christensen: Making optimal zirconia crowns. Dental Economics. 2019 May;109(5):75-8.
8. Khan AS, Syed MR. A review of bioceramics-based dental restorative materials. Dent Mater J. 2019 Mar 31;38(2):163-76.
9. Christensen GJ. Ask Dr. Christensen: What type of crown should I use? Dental Economics. 2019 Feb;109(2):68-72.
10. Christensen GJ. Ask Dr. Christensen: Do we really bond to tooth preparations? Dental Economics. 2018 Dec;108(12):58-61.
11. Turkistani A, Islam S, Shimada Y, Tagami J, Sadr A. Dental cements: Bioactivity, bond strength and demineralization progression around restorations. Am J Dent. 2018 Nov 15;31(Sp Is B):24B-31B.
12. Christensen GJ. Ask Dr. Christensen: What is the best type of material for posterior crowns? Dental Economics. 2018 Oct;108(10):79-81.
13. Christensen GJ. Ask Dr. Christensen: What material should I use for an anterior three-unit fixed prosthesis? Dental Economics. 2018 Feb;108(2):56-9.
14. Christensen GJ. Ask Dr. Christensen: Crown, onlay, or direct restoration? Dental Economics. 2017 Apr;107(4):80-2.

POST-TEST

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1. The most-used cement currently is:
 - a. glass ionomer.
 - b. resin-modified glass ionomer.
 - c. adhesive resin.
 - d. self-adhesive resin.

2. A significant lack in some cements currently is:
 - a. strength.
 - b. solubility.
 - c. cariostatic activity.
 - d. none of the above.

3. Which of the following is true relative to resin-modified glass ionomers?
 - a. They have more strength than resin.
 - b. They have less strength than resin.
 - c. They have equal strength to resin.
 - d. Strength is not an important cement characteristic.

4. Adhesive resin cements:
 - a. do not require a separate primer.
 - b. require a separate primer.
 - c. bond well to tooth structure over the long term.
 - d. are the most-used resin category.

5. Resin cements:
 - a. are soluble in mouth fluids.
 - b. are radiolucent.
 - c. are not cariostatic.
 - d. currently are used most.

6. MDP primer:
 - a. is a bonding agent for lithium disilicate.
 - b. is a bonding agent for zirconia.
 - c. is a bonding agent for both a and b above.
 - d. produces a strong bond.

7. Sandblasting zirconia:
 - a. significantly increases the retention to resin cement.
 - b. can slightly increase resin retention to zirconia.
 - c. is not suggested for Class 5 zirconia.
 - d. should NOT be accomplished on any form of zirconia.

POST-TEST (CONT'D)

V1921 Cementing Restorations – Proven & Successful!

- 8. Cementing ceramic veneers on preps with all dentin surfaces:
 - a. produces a strong long-lasting bond.
 - b. is not suggested as a viable concept.
 - c. does not require mechanical retention.
 - d. none of the above.

- 9. This presentation suggested which cement for zirconia?
 - a. Adhesive resin
 - b. Self-adhesive resin
 - c. Resin-modified glass ionomer
 - d. Glass ionomer

- 10. This presentation suggested which cement for lithium disilicate?
 - a. Adhesive resin
 - b. Self-adhesive resin
 - c. Resin-modified glass ionomer
 - d. Any of the above depending on the clinical situation and thickness of the material

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