

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

**S1959**  
**Tooth Preparations Can Make or Break  
Your Indirect Restorations**

Gordon J. Christensen, DDS, MSD, PhD

**Materials Included:**

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

**Gordon J. Christensen**  
**PRACTICAL CLINICAL COURSES**

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**PRACTICAL CLINICAL COURSES**  
*Sources of Products Discussed in*  
**S1959 Tooth Preparations Can Make or Break Your Indirect Restorations**  
Presented by Gordon J. Christensen, DDS, MSD, PhD

1. **GC Fuji I**  
GC America Inc.  
3737 W. 127<sup>th</sup> Street  
Alsip, IL 60803  
(800)323-7063  
<https://www.gc.dental/america/>
2. **Ketac Cem**  
3M Oral Care  
2510 Conway Avenue  
St. Paul, MN 55144  
(800)634-2249  
(651)733-1110  
[www.3m.com](http://www.3m.com)
3. **MASTERmatic LUX Handpiece**  
KaVo Dental  
11727 Fruehauf Drive  
Charlotte, NC 28227  
(888)528-6872  
[www.kavo.com](http://www.kavo.com)
4. **Max Handpiece**  
NSK America Corp.  
1800 Global Parkway  
Hoffman Estates, IL 60192  
(888)675-1675  
[www.nskdental.com](http://www.nskdental.com)
5. **1171 Midwest Bur**  
Dentsply Sirona  
13320-B Ballantyne Corporate Pl  
Charlotte, NC 28277  
(800)877-0020  
[www.dentsplysirona.com](http://www.dentsplysirona.com)
6. **1116.8C NeoDiamond and Other Sizes**  
Microcopy  
P.O. Box 2017  
Kennesaw, GA 30156-9017  
(800)235-1863  
[www.microcopydental.com](http://www.microcopydental.com)
7. **Optima Handpiece**  
Bien-Air Dental USA, Inc.  
Medical Technologies  
8861 Research Drive  
Irvine, CA 92618  
(800)433-2436  
[www.bienair.com](http://www.bienair.com)
8. **Taper Diamond**  
Many Different Companies

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

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## PROGRAM

### **S1959 Tooth Preparations Can Make or Break Your Indirect Restorations**

#### CLINICIAN RESPONSIBLE:

**Gordon J. Christensen, DDS, MSD, PhD**  
*Founder and CEO, Practical Clinical Courses*  
*Senior Consultant and Previous CEO, CR Foundation*  
*Practicing Prosthodontist, Provo, Utah*

#### GOALS & OBJECTIVES

At the completion of this video presentation, viewers should be able to:

1. Discuss how tooth preparations for indirect restorations have changed.
2. Compare the characteristics of air and electric dental handpieces.
3. List the types of indirect dental restorations.
4. List the characteristics of ceramic veneer tooth preparations.
5. Discuss potential mistakes that may be made on ceramic tooth preparations.
6. List the characteristics of ceramic inlay tooth preparations.
7. Discuss potential mistakes that may be made on ceramic tooth preparations.
8. List the characteristics of ceramic onlay tooth preparations.
9. Discuss the potential mistakes that may be made on ceramic onlay tooth preparations.
10. List the characteristics of cast gold full-crown tooth preparations.
11. Discuss the mistakes that may be made on cast gold full-crown tooth preparations.
12. List the characteristics of porcelain-fused-to-metal (PFM) full-crown tooth preparations.
13. Discuss the mistakes that may be made on PFM full-crown tooth preparations.
14. List the characteristics of lithium disilicate full-crown tooth preparations.
15. Discuss the mistakes that may be made on lithium disilicate full-crown tooth preparations.
16. Compare the characteristics of 3Y and 4-5-6Y full-crown tooth preparations.
17. Discuss the mistakes that may be made on the various iterations of zirconia full-crown tooth preparations.
18. List the steps for soft-tissue management – analog and digital.
19. Discuss the amount of tooth reduction needed for anterior and posterior restorations.
20. Compare the accuracy of analog elastomer and digital impressions.

## OVERVIEW

### **S1959 Tooth Preparations Can Make or Break Your Indirect Restorations**

The characteristics of indirect tooth preparations have been stable for many years. However, the advent of zirconia restorations, digital impressions, milling and pressing of restorations, and numerous other factors have changed the characteristics needed for adequate tooth preparations. This video identifies the needed changes and demonstrates how to adapt to them clinically. The following and other topics are included in this video:

- How tooth preparations for indirect restorations have changed.
- Characteristics of air and electric dental handpieces.
- Types of indirect dental restorations.
- Characteristics of ceramic veneer tooth preparations.
- Potential mistakes that may be made on ceramic tooth preparations.
- Characteristics of ceramic inlay tooth preparations.
- Potential mistakes that may be made on ceramic tooth preparations.
- Characteristics of ceramic onlay tooth preparations.
- Potential mistakes that may be made on ceramic onlay tooth preparations.
- Characteristics of cast gold full-crown tooth preparations.
- Mistakes that may be made on cast gold full-crown tooth preparations.
- Characteristics of porcelain-fused-to-metal (PFM) full-crown tooth preparations.
- Mistakes that may be made on PFM full-crown tooth preparations.
- Characteristics of lithium disilicate full-crown tooth preparations.
- Mistakes that may be made on lithium disilicate full-crown tooth preparations.
- Compare the characteristics of 3Y and 4-5-6Y full-crown tooth preparations.
- Mistakes that may be made on the various iterations of zirconia full-crown tooth preparations.
- Steps for soft-tissue management – analog and digital.
- The amount of tooth reduction needed for anterior and posterior restorations.
- The accuracy of analog elastomer and digital impressions.

## SUPPLEMENTAL MATERIALS

### **S1959 Tooth Preparations Can Make or Break Your Indirect Restorations**

1. Christensen GJ. Ask Dr. Christensen: Are pins and posts really necessary? *Dental Economics*. 2024 Feb;114(2):41-3.
2. Christensen GJ. Ask Dr. Christensen: Obtaining optimum retention for tooth restorations. *Dental Economics*. 2024 Jan;114(1):45-9.
3. Christensen GJ. Ask Dr. Christensen: Solving zirconia occlusion challenges. *Dental Economics*. 2023 Dec;113(12):40-4.
4. Christensen GJ. Ask Dr. Christensen: Solving challenges with zirconia and lithium disilicate crowns. *Dental Economics*. 2023 Oct;113(10):35-8.
5. Christensen GJ. Ask Dr. Christensen: How to make a lifetime crown. *Dental Economics*. 2023 Sep;113(9):74-7.
6. Christensen GJ. Ask Dr. Christensen: Comparing new dental concepts with older ones. *Dental Economics*. 2023 Mar;113(3):38-42.
7. Sadid-Zadeh R, Sahraoui H, Lawson B, and Cox R. Assessment of Tooth Preparations Submitted to Dental Laboratories for Fabrication of Monolithic Zirconia Crowns. *Dent J (Basel)*. 2021 Sep 27;9(10):112. doi: 10.3390/dj9100112.
8. Small BW. Intracoronal cast gold restorations. *Gen Dent*. 2010 Mar-Apr;58(2):91-3.
9. Ioannidis A, Mühlemann S, Özcan M, Hüsler J, Hämmerle CHF, and Benic GI. Ultra-thin occlusal veneers bonded to enamel and made of ceramic or hybrid materials exhibit load-bearing capacities not different from conventional restorations. *J Mech Behav Biomed Mater*. 2019 Feb;90:433-440. doi: 10.1016/j.jmbbm.2018.09.041. Epub 2018 Sep 27.
10. Stanley K, da Silva BP, and Gardee J. Laminate veneers: Preplanning and treatment using digital guided tooth preparation. *J Esthet Restor Dent*. 2020 Mar;32(2):150-160. doi: 10.1111/jerd.12571. Epub 2020 Feb 7.

## POST-TEST

### **S1959 Tooth Preparations Can Make or Break Your Indirect Restorations**

1. Tooth preparations for indirect restorations have changed because of:
  - a. Scanning impressions.
  - b. Spacing virtual dies.
  - c. Zirconia.
  - d. All the above.
  
2. Electric handpieces have equal torque when compared to air handpieces.
  - a. True
  - b. False
  
3. Ceramic veneer preps should be primarily in:
  - a. Either enamel or dentin.
  - b. Enamel.
  - c. Dentin.
  - d. It doesn't matter.
  
4. Ceramic inlays have equal strength and longevity with ceramic onlays.
  - a. True
  - b. False
  
5. Which is the strongest restoration?
  - a. Ceramic inlay.
  - b. Direct resin restoration.
  - c. Ceramic onlay covering all cusps.
  - d. Ceramic onlay covering only pestle cusp.
  
6. Computer spacing of virtual preps:
  - a. Allows easier crown seating.
  - b. Provides space for cement.
  - c. Produces open margins.
  - d. All the above.
  
7. Lithium disilicate crowns:
  - a. Are stronger than 4-5-6Y zirconia crowns.
  - b. Require a deeper prep than 3Y zirconia crowns.
  - c. Should have at least 2mm axial thickness for optimum strength.
  - d. None of the above.

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

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- 8. The "gold standard" for soft-tissue management is:
  - a. The single-cord technique.
  - b. Diode laser.
  - c. The double-cord technique.
  - d. Styptic clay alone.
  
- 9. Occlusal reduction for a zirconia crown should be:
  - a. 1mm.
  - b. 2mm.
  - c. 3mm.
  - d. None of the above.
  
- 10. Cast gold restorations are not recommended.
  - a. True
  - b. False

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

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