

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

**V1922**  
**Impressions Can Be Simple and Predictable**

Gordon J. Christensen, DDS, MSD, PhD  
Tim Palmer, CSO, BS

**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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Gordon J. Christensen  
**PRACTICAL CLINICAL COURSES**  
*Sources of Products Discussed in*

**V1922 Impressions Can Be Simple and Predictable**

Presented by Gordon J. Christensen, DDS, MSD, PhD & Tim Palmer, CSO, BS

1. **3M Astringent Retraction Paste**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
2. **3M Directed Flow Impression Tray**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
3. **3M Impregum Super Quick**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
4. **3M Imprint 4**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
5. **3M RelyX Luting Plus**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
6. **3M True Definition Scanner**  
Benco Dental  
295 CenterPoint Blvd.  
Pittston, PA 18640  
(800)462-3626  
(570)602-7000  
[www.benco.com](http://www.benco.com)
7. **Aquasil Ultra+**  
Dentsply Sirona  
13320-B Ballantyne Corporate Pl  
Charlotte, NC 28277  
(800)877-0020  
[www.dentsplysirona.com](http://www.dentsplysirona.com)
8. **CEREC Primescan**  
Dentsply Sirona  
13320-B Ballantyne Corporate Pl  
Charlotte, NC 28277  
(800)877-0020  
[www.dentsplysirona.com](http://www.dentsplysirona.com)
9. **CS Intraoral Scanner**  
Carestream Dental LLC  
3625 Cumberland Blvd  
Suite 700  
Atlanta, GA 30339  
(800)944-6365  
[www.carestreamdental.com](http://www.carestreamdental.com)
10. **Emerald S by Planmeca**  
Various Distributors
11. **EXA Advanced (Replaces Examix NDS)**  
GC America Inc.  
3737 West 127<sup>th</sup> Street  
Alsip, IL 60803  
(800)323-7063  
(708)597-0900  
[www.gcamerica.com](http://www.gcamerica.com)
12. **Fastray LC Light-Cure Custom Tray Material**  
Local Distributors
13. **GC FujiCEM Evolve**  
GC America Inc.  
3737 West 127<sup>th</sup> Street  
Alsip, IL 60803  
(800)323-7063  
(708)597-0900  
[www.gcamerica.com](http://www.gcamerica.com)
14. **Gingi-Pak Retraction Cord**  
Various Distributors
15. **½ Hollenback Carver (Hoe)**  
Various Manufacturers
16. **iTero Element**  
Align Technology, Inc.  
410 N. Scottsdale Road  
Suite 1300  
Tempe, AZ 85281  
(800)577-8767  
[www.itero.com](http://www.itero.com)

17. **Maxi-Cure Curing Unit**  
 Pearson Lab  
 13161 Telfair Avenue  
 Sylmar, CA 91342  
 (800)336-8256  
 (818)362-2600  
[www.pearsonlab.com](http://www.pearsonlab.com)
18. **Occlusal Indicator Wax**  
 Kerr Corporation  
 200 S. Kraemer Blvd.  
 Building E2  
 Brea, CA 92821  
 (800)537-7123  
[www.kerrdental.com](http://www.kerrdental.com)
19. **Quad-Tray (Clinician's Choice)**  
 Henry Schein Dental  
 135 Duryea Road  
 Melville, NY 11747  
 (800)372-4346  
 (631)843-5500  
[www.henryschein.com](http://www.henryschein.com)
20. **ROEKO Comprecap**  
 Coltene Inc.  
 235 Ascot Parkway  
 Cuyahoga Falls, OH 44223  
 (330)916-8800  
[www.coltene.com](http://www.coltene.com)
21. **ROEKO Stay-put Cord**  
 Coltene Inc.  
 235 Ascot Parkway  
 Cuyahoga Falls, OH 44223  
 (330)916-8800  
[www.coltene.com](http://www.coltene.com)
22. **Straumann Sirios Intraoral Scanner (Replaces Virtuo Vivo)**  
 Straumann USA LLC  
 60 Minuteman Road  
 Andover, MA 01810  
 (800)448-8168  
 (978)747-2500  
[www.straumann.com](http://www.straumann.com)
23. **Thermo Clone VPS**  
 Ultradent Products Inc.  
 505 West Ultradent Drive  
 South Jordan, UT 84095  
 (888)230-1420  
 (801)572-4200  
[www.ultradent.com](http://www.ultradent.com)
24. **TRIOS Intraoral Scanner**  
 3Shape, Inc.  
 430 Mountain Avenue  
 Suite 113  
 New Providence, NJ 07974  
 (888)374-2734  
[www.3shape.com](http://www.3shape.com)
25. **Triple Tray (Double-Arch, Sideless Tray)**  
 Premier Dental Co.  
 1710 Romano Drive  
 Plymouth Meeting, PA 19462  
 (888)670-6100  
 (610)239-6000  
[www.premierdentalco.com](http://www.premierdentalco.com)
26. **Ultrapak**  
 Ultradent Products Inc.  
 505 West Ultradent Drive  
 South Jordan, UT 84095  
 (888)230-1420  
 (801)572-4200  
[www.ultradent.com](http://www.ultradent.com)
27. **ViscoStat Clear**  
 Ultradent Products Inc.  
 505 West Ultradent Drive  
 South Jordan, UT 84095  
 (888)230-1420  
 (801)572-4200  
[www.ultradent.com](http://www.ultradent.com)
28. **WOW Intraoral Scanner**  
 Denterprise International Inc.  
 156 East Granada Blvd.  
 Ormond Beach, FL 32176  
 (877)509-3180  
 (386)672-0450  
[www.denterpriseintl.com](http://www.denterpriseintl.com)
29. **Zekrya Gingival Protector**  
 DMG America  
 65 Challenger Road  
 Suite 340  
 Ridgefield Park, NJ 07660  
 (800)662-6383  
 (201)894-5505  
[www.dmg-america.com](http://www.dmg-america.com)

***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

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## **PROGRAM**

### **V1922 Impressions Can Be Simple and Predictable**

#### **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. List reasons why fixed prosthodontic procedures are of high importance in dentistry.
2. Discuss why fixed prosthodontics comprise a major part of dental practice.
3. Discuss the current state of elastomer impressions.
4. Discuss the current state of digital impressions.
5. Compare the accuracy of elastomer vs. digital impressions.
6. Discuss the current percentage of digital vs. elastomer impressions in the USA.
7. List five reasons why digital impressions have been slow incorporating into practice.
8. List three significant advantages of vinyl polysiloxane impressions.
9. List three significant advantages of polyether impressions.
10. Discuss two most frequent reasons for inadequate elastomer impressions.
11. Discuss two most frequent reasons for inadequate digital impressions.
12. Discuss the limitations of elastomer impressions.
13. Discuss the limitations of digital impressions.
14. Discuss the expected growth of digital impressions.
15. Discuss staff members being involved with digital impressions.
16. Discuss the importance of proper soft-tissue management.
17. List the most popular methods for soft-tissue management.
18. Describe the two-cord tissue management technique.
19. Describe use of styptic pastes for soft-tissue management.
20. Compare the cost of digital vs. elastomer impressions.

## OVERVIEW

### **V1922 Impressions Can Be Simple and Predictable**

Impressions for indirect restorations are apparently a challenge for dentists, since major dental laboratories state that the majority of elastomer and digital impressions coming into their labs are defective in one or both of the following ways:

- The impressions do not have all the tooth preparation margins recorded.
- The elastomer impression material separates from the tray with resultant distortion.

This video presentation shows simple, predictable techniques for making perfect impressions most of the time, either elastomer or digital. The following and other topics are included:

- Why fixed prosthodontic procedures are of high importance in dentistry
- Why fixed prosthodontics comprise a major part of dental practice
- The current state of elastomer impressions
- The current state of digital impressions
- Accuracy of elastomer vs. digital impressions
- The current percentage of digital vs. elastomer impressions in the USA
- Reasons why digital impressions have been slow incorporating into practice
- Significant advantages of vinyl polysiloxane impressions
- Significant advantages of polyether impressions
- Most frequent reasons for inadequate elastomer impressions
- Most frequent reasons for inadequate digital impressions
- Limitations of elastomer impressions
- Limitations of digital impressions
- Expected growth of digital impressions
- Staff members being involved with digital impressions
- The importance of proper soft-tissue management
- The most popular methods for soft-tissue management
- The two-cord tissue management technique
- Use of styptic pastes for soft-tissue management
- The cost of digital vs. elastomer impressions

## **SUPPLEMENTAL MATERIALS**

### **V1922 Impressions Can Be Simple and Predictable**

1. Tabesh M, Nejatidanesh F, Savabi G, Davoudi A, Savabi O, Mirmohammadi H. Marginal adaptation of zirconia complete-coverage fixed dental restorations made from digital scans or conventional impressions: A systematic review and meta-analysis. *J Prosthet Dent.* 2021 Apr;125(4):603-610.
2. Khan SA, Tushar, Nezam S, Singh P, Kumari N, Singh SS. Comparison and Evaluation of Linear Dimensional Accuracy of Three Elastomeric Impression Materials at Different Time Intervals Using Vision Inspection System: An In Vitro Study. *J Int Soc Prev Community Dent.* 2020 Nov 24;10(6):736-742.
3. Papaspyridakos P, Vazouras K, Chen YW, Kotina E, Natto Z, Kang K, Chochlidakis K. Digital vs Conventional Implant Impressions: A Systematic Review and Meta-Analysis. *J Prosthodont.* 2020 Oct;29(8):660-678.
4. Baltazar Vaz IMC, Lino Carracho JFPC. Marginal fit of zirconia copings fabricated after conventional impression making and digital scanning: An in vitro study. *J Prosthet Dent.* 2020 Aug;124(2):223.e1-223.e6.
5. Christensen GJ. Ask Dr. Christensen: Preventing recurrent caries on restorations. *Dental Economics.* 2020 Apr;110(4):63-5.
6. Giachetti L, Sarti C, Cinelli F, Russo DS. Accuracy of Digital Impressions in Fixed Prosthodontics: A Systematic Review of Clinical Studies. *Int J Prosthodont.* 2020 Mar/Apr;33(2):192-201.
7. Christensen GJ. Ask Dr. Christensen: Let's save teeth! *Dental Economics.* 2020 Mar;110(3):71-4.
8. Keul C, Güth JF. Accuracy of full-arch digital impressions: an in vitro and in vivo comparison. *Clin Oral Investig.* 2020 Feb;24(2):735-745.
9. Christensen GJ. Ask Dr. Christensen: Why are some zirconia crowns failing? *Dental Economics.* 2019 Dec;109(12):69-71, 73.
10. Christensen GJ. Ask Dr. Christensen: Conventional impressions or scanning for fixed prosthodontics? *Dental Economics.* 2019 Oct;109(10):91-4.
11. Gedrimiene A, Adaskevicius R, Rutkunas V. Accuracy of digital and conventional dental implant impressions for fixed partial dentures: A comparative clinical study. *J Adv Prosthodont.* 2019 Oct;11(5):271-279.
12. Al-Ansari A. Which final impression technique and material is best for complete and removable partial dentures? *Evid Based Dent.* 2019 Sep;20(3):70-71.
13. Christensen GJ. Ask Dr. Christensen: Which crown goes where? *Dental Economics.* 2019 Sep;109(9):62-6.

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

### **V1922 Impressions Can Be Simple and Predictable**

14. Christensen GJ. Ask Dr. Christensen: How do I request the best kind of zirconia crown? Dental Economics. 2019 Jun;109(6):80-2, 102.
15. Christensen GJ. Ask Dr. Christensen: Making optimal zirconia crowns. Dental Economics. 2019 May;109(5):75-8.
16. Christensen GJ. Ask Dr. Christensen: What type of crown should I use? Dental Economics. 2019 Feb;109(2):68-72.
17. Baig MR, Buzayan MM, Yunus N. Accuracy of a new elastomeric impression material for complete-arch dental implant impressions. J Investig Clin Dent. 2018 May;9(2):e12320.



## POST-TEST

### **V1922 Impressions Can Be Simple and Predictable**

1. Vinyl polysiloxane materials (VPS):
  - a. have an objectionable taste to some patients.
  - b. have a “snap” set.
  - c. have adhesive that sets in 90 seconds.
  - d. none of the above.
  
2. Polyether materials:
  - a. are not as hydrophilic as VPS.
  - b. were suggested in this video, especially for removable prosthodontics.
  - c. have no taste.
  - d. have an incremental progressive setting time.
  
3. The most common reason for inadequate impressions is:
  - a. inadequate tooth preparations.
  - b. undercuts on tooth preparations.
  - c. inadequate soft-tissue management.
  - d. use of a laser for tissue management.
  
4. Digital impressions are:
  - a. more accurate than elastomer impressions.
  - b. less accurate than elastomer impressions.
  - c. similar in accuracy to elastomer impressions.
  - d. not growing in use.
  
5. Digital impressions:
  - a. are more difficult than elastomer impressions.
  - b. cannot be used adequately for all crown prep situations.
  - c. require more time than elastomer impressions.
  - d. are less expensive than elastomer impressions.
  
6. Scanners:
  - a. are adequate in all their physical characteristics.
  - b. are inexpensive.
  - c. can use more development.
  - d. none of the above.
  
7. Limitations of current scanners include:
  - a. being too large.
  - b. being too expensive.
  - c. accompanying computer on some scanners has infection control challenges.
  - d. all of the above.

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

**V1922 Impressions Can Be Simple and Predictable**

- 8. The most adequate soft-tissue management technique is:
  - a. the single-cord technique.
  - b. styptic clay.
  - c. the double-cord technique.
  - d. electrosurgery.
  
- 9. In the double-cord technique:
  - a. styptic should be placed on the first cord.
  - b. styptic clay and a Comprecap can be substituted for the second cord.
  - c. both cords are removed before making the impression.
  - d. both cords are left in while making the impression.
  
- 10. Staff involvement for scanning:
  - a. is encouraged.
  - b. is illegal in some locations.
  - c. reduces the cost for the impression.
  - d. all of the above.

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