

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
2. **3M Directed Flow Impression Tray**
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St. Paul, MN 55144
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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
6. **3M True Definition Scanner**
Benco Dental
295 CenterPoint Blvd.
Pittston, PA 18640
(800)462-3626
(570)602-7000
www.benco.com
7. **Aquasil Ultra+**
Dentsply Sirona
13320-B Ballantyne Corporate Pl
Charlotte, NC 28277
(800)877-0020
www.dentsplysirona.com
8. **CEREC Primescan**
Dentsply Sirona
13320-B Ballantyne Corporate Pl
Charlotte, NC 28277
(800)877-0020
www.dentsplysirona.com
9. **CS Intraoral Scanner**
Carestream Dental LLC
3625 Cumberland Blvd
Suite 700
Atlanta, GA 30339
(800)944-6365
www.carestreamdental.com
10. **Emerald S by Planmeca**
Various Distributors
11. **EXA Advanced (Replaces Examix NDS)**
GC America Inc.
3737 West 127th Street
Alsip, IL 60803
(800)323-7063
(708)597-0900
www.gcamerica.com
12. **Fastray LC Light-Cure Custom Tray Material**
Local Distributors
13. **GC FujiCEM Evolve**
GC America Inc.
3737 West 127th Street
Alsip, IL 60803
(800)323-7063
(708)597-0900
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.ityero.com

17. **Maxi-Cure Curing Unit by Select Dental**
Pearson Lab
13161 Telfair Avenue
Sylmar, CA 91342
(800)336-8256
(818)362-2600
www.pearsonlab.com
18. **Occlusal Indicator Wax**
Kerr Corporation
200 S. Kraemer Blvd.
Building E2
Brea, CA 92821
(800)537-7123
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
20. **ROEKO Comprecap**
Coltene Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
www.coltene.com
21. **ROEKO Stay-put Cord**
Coltene Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
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
23. **Thermo Clone VPS**
Ultradent Products Inc.
505 West Ultradent Drive
South Jordan, UT 84095
(888)230-1420
(801)572-4200
www.ultradent.com
24. **TRIOS Intraoral Scanner**
3Shape, Inc.
430 Mountain Avenue
Suite 113
New Providence, NJ 07974
(888)374-2734
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
26. **Ultrapak**
Ultradent Products Inc.
505 West Ultradent Drive
South Jordan, UT 84095
(888)230-1420
(801)572-4200
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
28. **WOW Intraoral Scanner**
Denterprise International Inc.
156 East Granada Blvd.
Ormond Beach, FL 32176
(877)509-3180
(386)672-0450
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

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

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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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