

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

**V2305**  
**Proven Simple and Successful Use of Mini Implants**

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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Gordon J. Christensen  
**PRACTICAL CLINICAL COURSES**  
*Sources of Products Discussed in*  
**V2305 Proven Simple and Successful Use of Mini Implants**  
Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. **3M Permadyne**  
Solventum  
2510 Conway Avenue  
St. Paul, MN 55144  
(855)423-6725  
(612)842-1263  
[www.solventum.com](http://www.solventum.com)
2. **AccuFilm II**  
Parkell, Inc.  
300 Executive Drive  
Edgewood, NY 11717  
(800)243-7446  
(631)249-1134  
[www.parkell.com](http://www.parkell.com)
3. **CBCT Company:**  
Carestream Dental LLC  
3625 Cumberland Blvd.  
Suite 700  
Atlanta, GA 30339  
(800)944-6365  
[www.carestreamdental.com](http://www.carestreamdental.com)
4. **CBCT Company:**  
Dentsply Sirona  
13320-B Ballantyne Corporate Pl.  
Charlotte, NC 28277  
(800)877-0020  
[www.dentsplysirona.com](http://www.dentsplysirona.com)
5. **CBCT Company:**  
Planmeca USA Inc.  
2600 Forbs Avenue  
Hoffman Estates, IL 60192  
(630)529-2300  
[www.planmeca.com](http://www.planmeca.com)
6. **CBCT Company:**  
PreXion Inc.  
181 Metro Drive  
Suite 190  
San Jose, CA 95110  
(855)773-9466  
(650)212-0314  
[www.prexion.com](http://www.prexion.com)
7. **CBCT Company:**  
Vatech America  
500 Frank W Burr Blvd  
Suite 710  
Teaneck, NJ 07666  
(888)396-6872  
(201)210-5028  
[www.vatechamerica.com](http://www.vatechamerica.com)
8. **CBCT Company (i-CAT):**  
KaVo Dental Technologies, LLC  
11727 Fruehauf Drive  
Charlotte, NC 28273  
(888)528-6872  
[www.kavo.com](http://www.kavo.com)
9. **Crisco Shortening**  
Local Grocery Store
10. **Fit Checker**  
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)
11. **Implantmed**  
W&H Impex Inc.  
6490 Hawthorne Drive  
Windsor, ON N8T 1J9  
Canada  
(800)265-6277  
[www.wh.com](http://www.wh.com)
12. **Implant Surgical System (AEU-7000E-70V)**  
Aseptico Inc.  
8333 216<sup>th</sup> Street SE  
Woodinville, WA 98072  
(425)487-3157  
[www.aseptico.com](http://www.aseptico.com)
13. **Inclusive Mini Implant System**  
Glidewell  
4141 MacArthur Blvd.  
Newport Beach, CA 92660  
(800)854-7256 (USA)  
(888)278-0414 (Canada)  
[www.glidewelldental.com](http://www.glidewelldental.com)
14. **LOCATOR CHAIRSIDE Attachment Processing Material**  
Zest Dental Solutions  
2875 Loker Avenue East  
Carlsbad, CA 92010  
(800)262-2310  
(442)244-4835  
[www.zestdent.com](http://www.zestdent.com)
15. **LOCATOR CHAIRSIDE Denture Prep & Polish Kit**  
Zest Dental Solutions  
2875 Loker Avenue East  
Carlsbad, CA 92010  
(800)262-2310  
(442)244-4835  
[www.zestdent.com](http://www.zestdent.com)

16. **LOCATOR CHAIRSIDE Soft Reline Material**  
Zest Dental Solutions  
2875 Loker Avenue East  
Carlsbad, CA 92010  
(800)262-2310  
(442)244-4835  
[www.zestdent.com](http://www.zestdent.com)
17. **LODI**  
Zest Dental Solutions  
2875 Loker Avenue East  
Carlsbad, CA 92010  
(800)262-2310  
(442)244-4835  
[www.zestdent.com](http://www.zestdent.com)
18. **Madame Butterfly Silk**  
Almore International  
441 19<sup>th</sup> Street S.E.  
Hickory, NC 28602  
(800)547-1511  
[www.almore.com](http://www.almore.com)
19. **MDL Small-Diameter Implants (Intra-Lock)**  
BioHorizons  
2300 Riverchase Center  
Suite 815  
Birmingham, AL 35244  
(888)246-8338  
(561)447-8282  
[www.intra-lock.com](http://www.intra-lock.com)
20. **MDL Small-Diameter Implants**  
Shatkin F.I.R.S.T.  
2495 Kensington Avenue  
Buffalo, NY 14226  
(888)474-2854  
(716)839-2959  
<https://shopshatkinfirst.com>
21. **Megatray Custom Tray Material (Replacement for Triad TruTray)**  
Henry Schein Dental  
135 Duryea Road  
Melville, NY 11747  
(800)372-4346  
(631)843-5500  
[www.henryschein.com](http://www.henryschein.com)
22. **Occlusal Indicator Wax**  
Kerr Corporation  
200 S. Kraemer Blvd.  
Building E2  
Brea, CA 92821  
(800)537-7123  
[www.kerrdental.com](http://www.kerrdental.com)
23. **PermaSoft**  
Myerson LLC  
5106 North Ravenswood  
Chicago, IL 60640-2713  
(800)423-2683  
(312)432-8200  
[www.myersontooth.com](http://www.myersontooth.com)
24. **Ridge Mapping Caliper**  
Salvin Dental Specialties, LLC  
3450 Latrobe Drive  
Charlotte, NC 28211  
(800)535-6566  
(704)442-5400  
[www.salvin.com](http://www.salvin.com)
25. **SafeWear Disposable Jackets**  
Medicom North America  
2555 Chemin de l'Aviation  
Pointe-Claire, QC H9P 2Z2  
Canada  
(800)361-2862  
(514)636-6262  
[www.medicom.com](http://www.medicom.com)
26. **Suzuki Basic Perio Surgery Kit**  
Hu-Friedy Mfg. Co., LLC  
3232 North Rockwell Street  
Chicago, IL 60618-5935  
(800)483-7433  
[www.hufriedygroup.com](http://www.hufriedygroup.com)
27. **Triad TruTray (See Megatray Custom Tray Material)**
28. **TrollFoil Articulating Foil by TrollDental**  
Directa USA  
64 Barnabas Road  
Unit 3  
Newtown, CT 06470  
(800)537-8765  
[www.directausa.com](http://www.directausa.com)
29. **Zinc Oxide Powder**  
Local Pharmacy

***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  
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## **PROGRAM**

### **V2305 Proven Simple and Successful Use of Mini Implants**

#### **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. Describe the current state of small-diameter implants (SDIs).
2. List the indications for SDIs.
3. List the rules for obtaining clinical success with SDIs.
4. List three brands of SDIs.
5. Discuss the supplies and instruments necessary for placing SDIs.
6. Discuss when a flap is needed when placing an implant.
7. List the clinical steps for placing an SDI.
8. Discuss the type of local anesthesia normally used for placement of SDIs.
9. Explain length of time required for initial soft-tissue healing.
10. Discuss the contents of a surgical kit for SDIs.
11. Discuss the number of SDIs to be placed in an edentulous mandible.
12. Discuss the number of SDIs to be placed in an edentulous maxilla.
13. Discuss what clinical conditions usually require making a soft-tissue flap.
14. Discuss what type of sutures to use when making a flap.
15. Describe the technique for placing soft denture reline material into “wells” in a denture allowing initial implant healing without a rigid abutment.
16. Discuss immediate loading of implant and when this is acceptable.
17. Discuss when immediate loading is contraindicated.
18. Describe a final impression procedure.
19. Describe the need or lack of it for a healing period and the time to wait.
20. Describe the denture seating appointment.

## OVERVIEW

### **V2305 Proven Simple and Successful Use of Mini Implants**

This video is on one of the most needed techniques in a typical general dentist's practice, small-diameter implants (SDIs) for edentulous and partially edentulous patients. The following and other topics are included:

- The current state of small-diameter implants (SDIs)
- Indications for SDIs
- Rules for obtaining clinical success with SDIs
- Three brands of SDIs
- Supplies and instruments necessary for placing SDIs
- When a flap is needed when placing an implant
- Clinical steps for placing an SDI
- Type of local anesthetic normally used for placement of SDIs
- Length of time required for initial soft-tissue healing
- Contents of a surgical kit for SDIs
- Number of SDIs to be placed in an edentulous mandible
- Number of SDIs to be placed in an edentulous maxilla
- Clinical conditions usually requiring making a soft-tissue flap
- Type of sutures to use when closing a flap
- Technique for placing soft denture reline material into "wells" in a denture allowing initial implant healing without a rigid abutment
- Immediate loading of implant and when this is acceptable
- When immediate loading is contraindicated
- Final impression procedure
- Need or lack of it for a healing period and the time to wait
- Denture seating appointment
- Many other topics

## SUPPLEMENTAL MATERIALS

### **V2305 Proven Simple and Successful Use of Mini Implants**

1. Christensen GJ and Christensen RP. [Small Diameter “Mini” Implants – User Status Report](#). CRA Foundation Newsletter. 2007 Nov;31(11):1-2.
2. Shatkin TE, Shatkin S, Oppenheimer BD, and Oppenheimer AJ. [Mini dental implants for long-term fixed and removable prosthetics: a retrospective analysis of 2514 implants placed over a five-year period](#). Compend Contin Educ Dent. 2007 Feb;28(2):92-9; quiz 100-1.
3. Bulard RA and Vance JB. [Multi-clinic evaluation using mini-dental implants for long-term denture stabilization: a preliminary biometric evaluation](#). Compend Contin Educ Dent. 2005 Dec;26(12):892-7.
4. Griffiths TM, Collins CP and Collins PC. [Mini dental implants: an adjunct for retention, stability, and comfort for the edentulous patient](#). Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2005 Nov;100(5):e81-4. doi: 10.1016/j.tripleo.2005.06.018.
5. Vigolo P and Givani A. [Clinical Evaluation of single-tooth mini-implant restorations: A five-year retrospective study](#). The Journal of Prosthetic Dentistry. 2000 Jul;84(1):50-4.
6. Morneburg TR and Pröschel PA. [Success rates of microimplants in edentulous patients with residual ridge resorption](#). Int J Oral Maxillofac Implants. 2008 Mar-Apr;23(2):270-6.
7. Shatkin TE and Petrotto CA. [Mini dental implants: a retrospective analysis of 5640 implants placed over a 12-year period](#). Compend Contin Educ Dent. 2012;33 Spec 3:2-9.
8. Choi KS, Yoon HC, and Cho YS. [Immediate provisionalization of mini-implants with friction-engaging abutments in the mandibular anterior region: a 1-year retrospective study](#). Int J Periodontics Restorative Dent. Mar-Apr 2013;33(2):201-6. doi: 10.11607/prd.0505.
9. Geckili O, Mumcu E, and Bilhan H. [Radiographic Evaluation of Narrow-Diameter Implants After 5 Years of Clinical Function: A Retrospective Study](#). Journal of Oral Implantology. 2013;39(special issue):273-9.
10. Elsyad MA, Gebreel AA, Fouad MM, and Elshoukouki AH. [The clinical and radiographic outcome of immediately loaded mini implants supporting a mandibular overdenture. A 3-year prospective study](#). J Oral Rehabil. 2011 Nov;38(11):827-34. doi: 10.1111/j.1365-2842.2011.02213.x. Epub 2011 Mar 24.
11. Gleiznys A, Skirbutis G, Harb A, Barzdzikaite I, and Grinyte I. [New approach towards mini dental implants and small-diameter implants: an option for long-term prostheses](#). Stomatologija. 2012;14(2):39-45.
12. Sohrabi K, Mushantat A, Esfandiari S, and Feine J. [How successful are small-diameter implants? A literature review](#). Clin Oral Implants Res. 2012 May;23(5):515-25. doi: 10.1111/j.1600-0501.2011.02410.x. Epub 2012 Feb 7.

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

### **V2305 Proven Simple and Successful Use of Mini Implants**

13. Christensen GJ. [Ask Dr. Christensen: What Makes Small Diameter Implants Fail?](#) Dental Economics. 2014 Mar;104(3):32-6.
14. Christensen GJ. (ICOI). (2013). *How Well Are Small Diameter Implants Working?* [Webinar]. <https://www.dental-users.com/en/363/icoiwebinars.html>
15. Christensen GJ. [Mini Implants: Insight from Dr. Gordon Christensen](#). Inclusive Magazine. 2013 Nov; 4(2):20-3.
16. Christensen GJ. [The increased use of small-diameter implants](#). J Am Dent Assoc. 2009 Jun;140(6): 709-12. doi: 10.14219/jada.archive.2009.0258.
17. Christensen GJ and Swift Jr EJ. [Mini Implants: Good or Bad for Long-Term Service?](#) J Esthet Restor Dent. 2008 Oct;20(5):343-8.



## POST-TEST

### **V2305 Proven Simple and Successful Use of Mini Implants**

1. Small-diameter implants (SDIs) are \_\_\_\_\_ in diameter.
  - a. 1.0 to 2.0 mm
  - b. 1.8 to 2.9 mm
  - c. 2.0 to 2.2 mm
  - d. 2.0 to 2.5 mm
  
2. Standard-diameter implants are \_\_\_\_\_ in diameter.
  - a. 3.0 to 4.0 mm
  - b. 3.0 to 5.0 mm
  - c. 3.0 to 6.0 mm
  - d. 3.0 to ~7.0 mm
  
3. Surgical motor and surgical handpieces:
  - a. are not needed for SDIs.
  - b. are used only for difficult SDI cases.
  - c. should always be used for SDIs.
  - d. none of the above.
  
4. Making a soft-tissue flap:
  - a. is always indicated for SDIs.
  - b. is a difficult procedure.
  - c. is slow to heal.
  - d. is indicated some of the time for SDIs.
  
5. The typical number of SDIs for an edentulous mandible is \_\_\_\_\_ SDIs.
  - a. 2
  - b. 4
  - c. 6
  - d. 8
  
6. The typical number of SDIs for an edentulous maxilla is \_\_\_\_\_ SDIs.
  - a. 2
  - b. 4
  - c. 6
  - d. 8
  
7. Several SDIs placed in an edentulous mandible without a flap:
  - a. can usually be loaded immediately after placement.
  - b. require up to 4 months before loading.
  - c. can seldom be loaded immediately.
  - d. can always be loaded immediately.

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

**V2305 Proven Simple and Successful Use of Mini Implants**

- 8. Final impressions for edentulous mandibles having 4 implants:
  - a. should be made in alginate.
  - b. should be made in polyether.
  - c. should be made in vinyl polysiloxane.
  - d. should be made in either polyether or polysiloxane.
  
- 9. Suturing material was suggested to be:
  - a. polyester.
  - b. polyglycolic acid (PGA).
  - c. black silk.
  - d. polypropylene.
  
- 10. A suggested staff-made denture pressure spot detecting media is composed of:
  - a. 30% zinc oxide and 70% Crisco.
  - b. 40% zinc oxide and 60% Crisco.
  - c. 50% zinc oxide and 50% Crisco.
  - d. 60% zinc oxide and 40% Crisco.

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