

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

V2360

Placing Mini Implants – Simple, Safe, and Effective

Gordon J. Christensen, DDS, MSD, PhD

Materials Included

C.E. Instruction Sheet
Products List
Patient Information & Consent Form
Implant Placement Handout
Post-Surgery Instructions
Clinician Responsible
Goals & Objectives
Overview
References
AGD Post Test

Gordon J. Christensen
PRACTICAL CLINICAL COURSES

PROCEDURE FOR RECEIVING
ACADEMY OF GENERAL DENTISTRY
AND STATE CREDIT
FOR CE VIDEOS

1. Complete the enclosed Post-Test. For each **CE Video Purchased**, one test is included. If additional tests are needed, the following fees will apply: \$25 per test per dentist (limit 1 additional dentist per video purchased); \$10 per test per auxiliary (dental assistants, hygienists, lab technicians - no limit on auxiliary tests). Fees can be paid either by check or credit card when tests are submitted to Practical Clinical Courses.
2. Complete the demographic information located at the end of the test.
Type of Credit:
 - a. If the applicant selects "AGD," PCC will send notification to both the applicant and the Academy of General Dentistry. (The AGD will also notify applicant of credits earned by printout information.)
 - b. If the applicant selects "State," PCC will send a certificate of verification to the applicant. The applicant must then submit this certificate to his/her state board to obtain credit.
 - c. If the applicant selects "Both," PCC will complete a. & b. above.
3. Return the **Post-Test portion** via mail, fax, or email. Our contact information is as follows:

Practical Clinical Courses
3707 N Canyon Road
Suite 3D
Provo, UT 84604
Fax: (801) 226-8637
info@pccdental.com

4. Practical Clinical Courses will correct the Post-Test. **Passing scores are 70% or higher.**

Gordon J. Christensen
PRACTICAL CLINICAL COURSES

Sources of Products Discussed in

V2360 Placing Mini Implants – Simple, Safe, and Effective

Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. **AEU-7000E-70V Implant Surgical System**
Aseptico
8333 216th Street S.E.
Woodinville, WA 98072
(866)244-2954
(425)487-3157
www.aseptico.com
2. **Criticare 506 DXNP**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
3. **Criticare N-Genuity**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
4. **Disposable Scalpel**
Henry Schein, Inc.
135 Duryea Road
Melville, NY 11747
(800)582-2702
(631)843-5500
www.henryschein.com
5. **Fit Checker**
GC America
3737 West 127th Street
Alsip, IL 60803
(800)323-7063
(708)597-0900
www.gcamerica.com
6. **Graduated Torque Wrench**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
7. **HEM-907XL Blood Pressure Monitor**
Omron Healthcare, Inc.
1925 West Field Court
Lake Forest, IL 60045
(877)216-1333
(847)680-6200
www.omronhealthcare.com
8. **Implantmed**
W&H Impex Inc.
6490 Hawthorne Drive
Windsor, ON N8T 1J9
CANADA
(800)265-6277
(519)944-6739
www.wh.com/en_na
9. **MDI Block Out Shims**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
10. **MDI Finger Driver**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
11. **MDI Metal Housing**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
12. **MDI O-Ball Impression Coping**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
13. **MDI Winged Thumb Wrench**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
14. **Mini Dental Implants (MDI)**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
15. **NeoDiamond**
Microcopy
P.O. Box 2017
Kennesaw, GA 30156-9017
(800)235-1863
(770)425-5715
www.microcopydental.com

16. **O-Pak**
AD Surgical
544 East Weddell Drive
Suite 9
Sunnyvale, CA 94089
(888)841-8481
(408)541-1393
www.ad-surgical.com
17. **Periosteal Elevator**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
18. **Permadyne**
3M ESPE Dental Products
3M Center
Building 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
19. **PermaSoft**
Dentsply Canada
161 Vinyl Court
Woodbridge, ON L4L 4A3
CANADA
(800)263-1437
(905)851-6060
www.dentsply.ca
20. **Ridge Caliper**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
21. **SM7 Essential Emergency Medical Kit**
HealthFirst
22316 70th Avenue West
Suite A
Mountlake Terrace, WA 98043
(800)331-1984
(425)771-5733
www.healthfirst.com
22. **Snap Stone**
Whip Mix Corporation
361 Farmington Avenue
P.O. Box 17183
Louisville, KY 40217
(800)626-5651
(502)637-1451
www.whipmix.com
23. **Sofreliner Tough**
Tokuyama Dental America
740 Garden View Court
Suite 200
Encinitas, CA 92024
(877)378-3548
(760)942-7211
www.tokuyama-us.com
24. **Sterile Gown Pack**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
25. **Sterile Surgical Packs**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
26. **Vicryl (Ethicon) Sutures**
Henry Schein, Inc.
135 Duryea Road
Melville, NY 11747
(800)582-2702
(631)843-5500
www.henryschein.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**

The techniques and procedures on this videotape are intended to be suggestions only. Any licensed practitioner viewing this presentation must make his or her own professional decisions about specific treatment for patients. PCC is not responsible for any damages or other liabilities (including attorney's fees) resulting, or claimed to result in whole or in part, from actual or alleged problems arising out of the use of this presentation.

Patient Information and Consent Form for Dental Implants

1. Dr. _____ has carefully examined my mouth. Alternatives to implant therapy have been explained. I have considered these methods, and I desire implant placement to replace my missing teeth.
2. I have been informed about the implant surgery procedure. The technique to accomplish placement of implants under the gum and in the bone has been explained to me.
3. Dr. _____ has explained that there is no method to accurately predict the gum and the bone healing capabilities in each patient following the placement of implants, and that about 95% of implants successfully integrate into the bone. It has been explained that in a few instances implants fail and must be removed. Guarantees or assurance as to the outcome of results of treatment or surgery cannot be made.
4. I have been informed of the possible risks and complications involved with implant surgery, drugs, and anesthesia. I have been told that all of these complications occur very infrequently. Such potential complications include pain, swelling, infection and transient discoloration. Numbness of the lip, tongue, chin, cheek, or teeth may occur in a few cases. The exact duration of numbness is not predictable and infrequently may be irreversible. Also possible are: injury to adjacent teeth, bone fractures, delayed healing, and allergic reactions to drugs or medications used. Dr. _____ has explained the potential for occurrence of these specific occurrences in my case.
5. I understand that excessive smoking, alcohol, or sugar consumption may effect healing and limit the success of implants. I agree to follow my doctor's home care instructions. I agree to report to Dr. _____ for regular examination as instructed.
6. I agree to the type of anesthesia, deemed best for my needs by Dr. _____.
7. To my knowledge, I have given an accurate report of my physical and mental history. I have also reported any prior allergic or unusual reactions to drugs, food, insect bites, anesthetics, pollens, dust, blood or body diseases, gum or skin reactions, abnormal bleeding or any other conditions related to my health.
8. I consent to photography, filming, recording, and radiographs (x-rays) of the procedure to be performed for the advancement of implant dentistry, provided my identity is not revealed.
9. I request and authorize medical/dental services for me, including implants and other surgery. I fully understand that during, and following the contemplated procedure, surgery, or treatment, conditions may become apparent which warrant, in the judgment of the doctor, additional or alternative treatment pertinent to the success of comprehensive treatment. I also approve any modification in design, materials, or care, if it is felt this is for my best interest.

Signature of Doctor _____ Signature of Patient _____

If patient is unable to sign or is a minor,

Signature of parent or legal guardian _____

Witness _____ Date _____

Implant Placement

This instruction sheet will help you to understand the dental implant placement procedure.

1. Please have a good night's rest before the day of implant placement, and eat a nutritious breakfast or lunch.
2. A local anesthetic will be used to block sensation in the area where the implant is to be placed.
3. Sterile covers will be placed over your clothing and hair, and our work surfaces to reduce the presence of bacteria.
4. We will wear sterile outer clothing to eliminate any contamination.
5. A small incision may be made in your gums to obtain access to the location where the implant will be placed.
6. Several sizes of small drills will be used to make precise, painless, preparations in the locations where the implants will be placed.
7. Implants will be placed into the prepared sites.
8. Your gum tissue may be sutured together to isolate the newly placed implants from oral fluids and foods. The stitches will dissolve by themselves, unless we advise you differently.
9. You will be asked to bite on gauze sponges for at least one half-hour after the implant placement to stabilize any incision and stop any slight blood flow.
10. You will be given at least 2 prescriptions which you should have filled and begin to use immediately:
 - a. An antibiotic to control any potential infection. Please take this medication as directed until the tablets are gone.
 - b. A pain relieving medication to control discomfort. Take this medication only until you do not need it anymore.
11. Anesthesia should remain in your mouth for at least 1 hour after we are finished.
12. As soon as possible after treatment, place ice in a plastic bag and put it on the outside of your face for a few hours over the sites where the implants were placed. This reduces the potential swelling and bruising. However, you may still have some swelling and bruising for a few days.
13. There may be a feeling of numbness caused by the surgery that lingers for a short time. Usually, this feeling goes away within a few days. In a very few cases it does not go away totally.
14. Eat and drink only soft foods for a few days. The less force you put on the implant area for the next several days the better and faster will be the healing. Over 95% of implants are accepted well by the body, and about one out of 20 is rejected and must be replaced.
15. We anticipate that these implants will serve you well for many years.

Post-Surgery Instructions

Healing following surgery in your mouth is usually fast and uncomplicated, if you follow the directions below:

1. Gently bite on gauze sponges for 30 minutes after the surgery to encourage the bleeding to clot. Replace the sponges with new water-moistened gauze sponges for another 30 minutes if fresh, red blood is present. If bleeding continues after this time, bite on a teabag for 30 minutes. If you are still bleeding, please contact our office.
2. Do not drink or eat hot foods today, as you may dissolve or loosen the blood clot. Eat cool, soft, nutritious foods today.
3. Do not “suck” on the wound site for the next few days. You may disturb the blood clot, causing bleeding, slow healing, and/or bone pain often called a “dry socket.”
4. Do not eat hard foods for a few days in the part of your mouth where the surgery was accomplished. You could disturb the healing.
5. Do not overexert yourself during the next 24 hours.
6. If pain persists after several days, please contact us for instructions.

THE POINTS CHECKED OFF BELOW APPLY TO YOU:

7. Sutures (stitches):

- a. Were not placed.
- b. Were placed. You need an appointment in about 7 days to have the stitches removed.
- c. Were placed. You do not need an appointment to remove them. They will dissolve by themselves in a few weeks.

8. Pain:

- a. You have not been given a prescription for pain. You should not experience discomfort. Take aspirin or Tylenol for mild discomfort that may come in about two hours from now. If the pain is more than these drugs can control, please call us, and we will phone a prescription to your nearest pharmacy.
- b. You have been given a prescription for pain. You may elect to try to control the discomfort with aspirin or Tylenol before filling the prescription. If these drugs will not control the pain, please get the prescription filled and take the medication as directed.

9. Antibiotic:

- a. You have not been given an antibiotic. It does not appear you will need antibiotic therapy.
- b. You have been given a prescription for an antibiotic. Please take the medication as directed until all the tablets are gone.

10. Cold Application:

- a. Not necessary for your surgery.
- b. Use cold packs (ice in plastic bags) on the outside of your face near the surgery site for two hours when you arrive home. Usually alternating 10 minutes on the face and 10 minutes off for an hour is adequate.

You should be healed from this surgery very soon. Please call us if any questions arise. Thank you.

PROGRAM

V2360 Placing Mini Implants - Simple, Safe, and Effective

CLINICIAN RESPONSIBLE:

Gordon J. Christensen, DDS, MSD, PhD
CEO, Practical Clinical Courses
CEO, CR Foundation
Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

At the completion of this video presentation, participants should be able to accomplish the following:

1. Define the state-of-the-art for small-diameter implants (SDIs or “mini” implants).
2. Describe the sizes of root-form implants.
3. Discuss the importance of SDIs.
4. List the major reasons for SDI placement.
5. List the prioritized indications for SDIs.
6. List the contraindications for dental implants.
7. Discuss the rapid evolution and acceptance of SDIs.
8. Discuss the long-term research on SDIs.
9. List and discuss the four basic classifications of bone in the oral cavity.
10. List the recommendations for SDI success presented in this video.
11. Compare the potential success of SDIs in the 4 types of bone.
12. Discuss treatment planning for SDI placement.
13. State the optimum length for SDIs.
14. State the optimum diameter for SDIs.
15. Discuss the operatory set-up for SDIs.
16. Discuss emergency equipment needed.
17. Discuss anesthetic and analgesic needs.
18. Discuss when to make a surgical flap for SDI placement.
19. List steps in the SDI placement technique using a flap.
20. List steps in the SDI placement technique without a flap.

OVERVIEW

V2360 Placing Mini Implants - Simple, Safe, and Effective

This presentation includes the following topics:

- Small-diameter implant (SDI) state-of-the-art
- Sizes and characteristics of SDIs
- Importance of SDIs
- Reasons for SDIs
- Prioritized indications for SDIs
- Contraindications for SDIs
- The rapid evolution of SDIs
- Research on the acceptability of SDIs
- Classifications of bone in the oral cavity
- Recommendations for SDI success
- Bone types and SDI success
- Planning for SDI placement
- Optimum length of SDIs
- Optimum diameter of SDIs
- Operatory set-up for implant placement
- Emergency equipment
- Anesthetic needs
- Flap or no flap
- Osteotomy depth relative to bone type
- Distance between implants
- Distance between implants and adjacent teeth
- Making the osteotomy
- Location of the implants
- Suturing (if a soft-tissue flap is used)
- Loading or not loading the implants at the time of placement
- Retrofitting previously made or new dentures to the implants
- Antibiotics or analgesics needed: yes or no?
- A step-by-step procedure placing mini implants with and without a soft-tissue flap
- Patient postoperative instructions

REFERENCES

V2360 Placing Mini Implants - Simple, Safe, and Effective

1. Christensen GJ. Small Diameter "Mini" Implants-User Status Report. CRA Foundation Newsletter. 2007 Nov;31(11):1-2.
2. Shatkin TE, Shatkin S, Oppenheimer BD, 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, 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, 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.
5. Vigolo P, Givani A. Clinical evaluation of single-tooth mini-implant restorations: a five-year retrospective study. *J Prosthet Dent.* 2000 Jul;84(1):50-4.
6. Morneburg TR, 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, 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.

POST TEST

V2360 Placing Mini Implants - Simple, Safe, and Effective

1. Small-diameter implants (SDIs) are defined as being _____ in diameter.
 - a. 1mm to 3mm
 - b. 1.8mm to 2.9mm
 - c. 2.0mm to 3.0mm
 - d. 2.1mm to 2.9mm

2. Standard- or conventional-diameter implants start at _____ in diameter.
 - a. 2mm
 - b. 1.8mm
 - c. 4.0mm
 - d. 3.0mm

3. SDIs placed correctly are _____ successful clinically than conventional-diameter implants.
 - a. more
 - b. less
 - c. about as
 - d. much less

4. One of the potential contraindications for placement of implants is:
 - a. recent childbirth.
 - b. patients over 75 years of age.
 - c. a recent cold.
 - d. smoking.

5. SDIs are not recommended to be placed in type _____ bone.
 - a. 1
 - b. 2
 - c. 3
 - d. 4

6. Cone beam radiographs show bone quality and quantity:
 - a. only in a facial-lingual dimension.
 - b. only in a mesial-distal dimension.
 - c. in both facial-lingual and mesial-distal directions.
 - d. none of the above.

7. The most used length of the SDIs presented in this video was suggested to be:
 - a. 12mm.
 - b. 8mm.
 - c. 13mm.
 - d. 10mm.

POST TEST (CONT'D)

V2360 Placing Mini Implants - Simple, Safe, and Effective

8. A soft-tissue flap is _____ for placement of SDIs.
- a. not needed
 - b. occasionally needed
 - c. needed about half of the time
 - d. needed routinely
9. Loading SDIs should be done:
- a. always immediately after placement.
 - b. two weeks after placement.
 - c. if bone resistance was 30 Ncm or more at placement.
 - d. only with soft denture reline material.
10. Antibiotics should be taken after SDI placement:
- a. only in a few cases.
 - b. routinely.
 - c. never.
 - d. only for patients over 65 years of age.

PLEASE PRINT

Name _____

Name of video purchaser (if different from above) _____

Address _____

City/State/Zip _____

Phone No. _____

Indicate which type of credit you wish to obtain AGD State Both

AGD No. _____

State License No. _____