

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

V4350
Socket Preservation and Bone Grafting

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

**PROCEDURE FOR RECEIVING
CE CREDIT FOR VIDEO COURSES**

1. Complete the enclosed Post-Test.* For each **CE Video Purchased**, one complimentary test is included. Additional tests are \$35/person per test. Fees can be paid by check or with a credit card when submitting tests to Practical Clinical Courses. If more than 10 CE tests are required per video, please contact us at 800-223-6569.
2. Complete the demographic information located at the end of the test.
Type of Credit:
 - a. If the applicant selects "State," PCC will issue a certificate of verification to the applicant. The applicant must then submit this certificate to their state board to obtain credit.
 - b. If the applicant selects "AGD," PCC will submit credit information to the Academy of General Dentistry and confirmation to the applicant that it has been submitted (*the applicant may check their AGD transcript for verification – please allow 30 days*).
 - 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
cetests@pccdental.com

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

***TO OBTAIN CE CREDIT ONLINE:** Login or create an account on www.pccdental.com and select "My CE Tests" from the left-side menu. Click on the video title to take the test online. **RESULTS ARE IMMEDIATE.** Missing the test? Contact us at 800-223-6569 during our business hours of 7:00 a.m. – 4:00 p.m. MST to add it to your account.

Gordon J. Christensen
PRACTICAL CLINICAL COURSES
Sources of Products Discussed in
V4350 Socket Preservation and Bone Grafting
Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. **AccuFilm II**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
2. **Amalgam Condenser**
Various Manufacturers
3. **Big Easy Periotomes**
Premier Dental Products Co.
1710 Romano Drive
Plymouth Meeting, PA 19462
(888)670-6100
(610)239-6000
www.premusa.com
4. **Bio-Oss**
Osteohealth
One Luitpold Drive
P.O. Box 9001
Shirley, NY 11967
(800)874-2334
(631)924-4000
www.ostehealth.com
5. **Bioplant**
Kerr Corporation
1717 West Collins Avenue
Orange, CA 92867
(800)537-7123
(714)516-7400
www.kerrdental.com
6. **Blu-Mousse**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
7. **CollaPlug**
Zimmer Dental Inc.
1900 Ashton Avenue
Carlsbad, CA 92008
(800)854-7019
(760)929-4300
www.zimmerdental.com
8. **Copper Bands**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
9. **Cotton Pliers**
Various Manufacturers
10. **Directed Flow Impression Tray**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
www.3mespe.com
11. **Disposable Scalpel**
Various Manufacturers
12. **Elevators**
Various Manufacturers
13. **Filpins**
Filhol Dental
19 West 34th Sreet
Suite 916
New York, NY 10001
(212)714-9250
www.filhol.com
14. **Foundation**
J. Morita USA
9 Mason
Irvine, CA 92618
(888)566-7482
(949)581-9600
www.jmoritausa.com
15. **GC FujiCEM Automix**
GC America, Inc.
3737 West 127th Street
Alsip, IL 60803
(800)323-3386
(708)897-4000
www.gcamerica.com
16. **Gluma**
Heraeus
300 Heraeus Way
South Bend, IN 46614
(800)431-1785
(574)291-0661
www.heraeus-kulzer-us.com

17. **HemCon Dental Dressing**
HemCon Medical Technologies
10575 SW Cascade Avenue
Suite 130
Portland, OR 97223
(877)247-0196
(503)245-0459
www.hemcon.com
18. **Hemostat**
Various Manufacturers
19. **Integra (Miltex) Sutures**
Pearson Dental
13161 Telfair Avenue
Sylmar, CA 91342
(800)535-4535
(818)362-2600
www.pearsondental.com
20. **Luxator**
JS Dental Manufacturing
196 North Salem Road
P.O. Box 904
Ridgefield, CT 06877
(800)284-3368
(203)438-8832
www.jsdental.com
21. **Madame Butterfly Silk**
Almore International, Inc.
P.O. Box 25214
Portland, OR 97298
(800)547-1511
(503)643-6633
www.almore.com
22. **MaxCem Elite**
Kerr Corporation
1717 West Collins Avenue
Orange, CA 92867
(800)537-7123
(714)516-7400
www.kerrdental.com
23. **MicroPrime**
Danville Materials
3420 Fostoria Way
Suite A200
San Ramon, CA 94583
(800)827-7940
(925)973-0710
www.danvillematerials.com
24. **MinerOss**
BioHorizons
2300 Riverchase Center
Birmingham, AL 35244
(888)246-8338
(205)967-7880
www.biohorizons.com
25. **Needle Holder**
Various Manufacturers
26. **OraGRAFT**
LifeNet Health, Inc.
1864 Concert Drive
Virginia Beach, VA 23453
(888)847-7831
(757)464-4761
www.accesslifenethealth.org
27. **Periosteal Elevator**
Various Manufacturers
28. **Protemp 3 Garant**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
www.3mespe.com
29. **Proximator**
Karl Schumacher Dental
Instruments Company, Inc.
108 Lakeside Drive
Southampton, PA 18966
(800)523-2427
(215)322-0511
www.karlschumacher.com
30. **Puros**
Zimmer Dental Inc.
1900 Ashton Avenue
Carlsbad, CA 92008
(800)854-7019
(760)929-4300
www.zimmerdental.com
31. **RelyX Luting Plus**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
www.3mespe.com
32. **Scissors**
Various Manufacturers
33. **Socket Repair Membrane**
Zimmer Dental Inc.
1900 Ashton Avenue
Carlsbad, CA 92008
(800)854-7019
(760)929-4300
www.zimmerdental.com
34. **TempBond**
Kerr Corporation
1717 West Collins Avenue
Orange, CA 92867
(800)537-7123
(714)516-7400
www.kerrdental.com
35. **Triad System**
Dentsply Prosthetics
570 West College Avenue
York, PA 17405
(800)243-1942
(717)845-7511
www.ceramco.com

36. **Unicem**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
www.3mespe.com
37. **Vicryl (Ethicon) Sutures**
Henry Schein, Inc.
135 Duryea Road
Melville, NY 11747
(800)582-2702
(631)843-5500
www.henryschein.com
38. **Wax Spatula**
Various Manufacturers

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.

PROGRAM

V4350 Socket Preservation and Bone Grafting

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

On completion of this video, viewers should be able to:

1. Discuss and support the need for socket grafting (ridge preservation).
2. List the four types of grafting material categories.
3. Describe an autogenous bone graft.
4. Describe an allograft.
5. Describe an alloplast.
6. Describe a xenograft.
7. Discuss methods to remove a tooth without breaking bone.
8. Describe Luxators.
9. Describe Proximators.
10. Describe a periosteal elevator.
11. Discuss selecting the most appropriate grafting material for specific situations.
12. Compare local anesthetic need and type of anesthetic for routine tooth extraction and socket grafting.
13. List the differences in socket grafting when planning to place an implant at a later date or placing a fixed partial denture.
14. Describe the forces and location of instrument placement applied to a Luxator or Proximator to remove a tooth broken off at the level of the bone.
15. Compare the placement of allograft bone chips with allograft putty with chips.
16. Discuss when a barrier membrane is needed in socket grafting.
17. Discuss how long allograft bone materials should be in place before placing an implant, assuming remote placement and not immediate placement of the implant.
18. Discuss how long soft-tissue healing of a pontic area should take place before making a fixed partial denture.
19. List the ADA insurance codes for socket preservation.
20. Discuss the necessity for patient education when presenting socket grafting to a patient.

OVERVIEW

V4350 Socket Preservation and Bone Grafting

Ridge preservation has been promoted for many years, but it has not become a mainstream technique, in spite of its value. There are numerous reasons related to why ridge preservation has not become popular. Among them are: there is an erroneous feeling that the technique is difficult and unpredictable; third-party payers do not pay well for the procedure; the grafting materials are relatively expensive; the waiting time between placement of the graft and being able to go ahead with the other procedures is a limitation, and the technique is not included in many dental school curricula.

Ridge preservation is an excellent, simple procedure that needs to become a commonly accomplished concept in general dental practice! This presentation shows the clinical technique for grafting an extraction socket and placing a fixed prosthesis from diagnosis, through tooth removal, grafting, healing, preparation for and placement of a fixed prosthesis over the healed, grafted pontic site. It includes the following topics:

1. Need for socket grafting
2. Types of bone grafts and the purpose for grafting
3. Autogenous grafts
4. Allografts
5. Alloplasts
6. Xenografts
7. Extracting teeth without breaking bone
8. Selecting the most appropriate grafting material
9. Anesthetic need for grafting
10. Impressions for provisional restorations
11. Preliminary tooth preparation
12. Atraumatic tooth extraction.
13. Placement of grafting material in a four-wall socket
14. Placement of wound dressing
15. Fabrication of provisional restorations
16. Seating provisional restorations
17. Analgesics necessary
18. Antibiotics necessary
19. The healed soft-tissue site
20. Impression for the provisional restoration for the final tooth preparations
21. Final tooth preparations
22. Final impressions
23. Seating the provisional restoration
24. The final fixed-partial-denture from the laboratory
25. Seating the final restoration
26. The completed healed graft and final restoration
27. Placement of grafts in 3-wall sockets
28. Placement of a socket repair membrane
29. Placement of grafting material in a 3-wall socket
30. Suturing the site
31. Fees for socket grafting

SUPPLEMENTAL MATERIALS

V4350 Socket Preservation and Bone Grafting

1. Christensen GJ, Child PL Jr. Bone Grafting Implants: Always the Best Treatment? *Dentistry Today*. November 2010.
2. Wang HL, Tsao YP. Mineralized bone allograft-plug socket augmentation: rationale and technique. *Implant Dent*. 2007;16(1):33-41.
3. McAllister BS, Haghighat K. Bone augmentation techniques. *J Periodontol*. 2007;78(3):377-396.
4. Irinakis T. Rationale for socket preservation after extraction of a single-rooted tooth when planning for future implant placement. *J Can Dent Assoc*. 2006;72(10):917-922.
5. Bader H. Immediate extraction site grafting: materials and clinical objectives. *Dent Today*. 2005;24(7):86-89.
6. Sclar AG. Strategies for management of single-tooth extractions sites in aesthetic implant therapy. *J Oral Maxillofac Surg*. 2004;62(9 suppl 2):90-105.
7. Zitzmann NU, Naef R, Schärer P. Resorbable versus nonresorbable membranes in combination with Bio-Oss for guided bone regeneration [published erratum appears in *Int J Oral Maxillofac Implants*. 1998; 13(4):576]. *Int J Oral Maxillofac Implants*. 1997;12(6):844-852.
8. Noubissi SS, Lozada JL, Boyne PJ, et al. Clinical, histologic, and histomorphometric evaluation of mineralized solvent-dehydrated bone allograft (Puros) in human maxillary sinus grafts. *J Oral Implantol*. 2005;31(4):171-179.
9. Froum SJ, Wallace SS, Elian N, et al. Comparison of mineralized cancellous bone allograft (Puros) and anorganic bovine bone matrix (Bio-Oss) for sinus augmentation: histomorphometry at 26 to 32 weeks after grafting. *Int J Periodontics Restorative Dent*. 2006;26(6):543-551.
10. Vance GS, Greenwell H, Miller RL, et al. Comparison of an allograft in an experimental putty carrier and a bovine-derived xenograft used in ridge preservation: a clinical and histologic study in humans. *Int J Oral Maxillofac Implants*. 2004;19(4):491-497.

POST-TEST

V4350 Socket Preservation and Bone Grafting

1. The “gold standard” for grafting is:
 - a. autogenous bone.
 - b. allograft.
 - c. xenograft.
 - d. alloplast.

2. Socket grafting is most needed in:
 - a. maxillary molar areas.
 - b. mandibular anterior areas.
 - c. the smile zone.
 - d. upper anterior areas.

3. An allograft is:
 - a. the patient’s own bone.
 - b. usually cow (bovine) bone.
 - c. cadaver bone.
 - d. a synthetic material.

4. Extracting teeth broken off at the bone level without breaking bone is best effected by:
 - a. grasping the remaining coronal tooth structure with a forcep.
 - b. using a Luxator or Proximator on the facial and lingual root surfaces.
 - c. rocking the forcep in a facial-lingual direction.
 - d. using a Luxator or Proximator on the mesial and distal root surfaces.

5. Patients having a tooth extracted and bone grafting require:
 - a. routine block anesthetic delivery.
 - b. oral sedation.
 - c. general anesthetic.
 - d. minimal anesthetic, as deemed appropriate by the practitioner.

6. A grafted site is usually ready for an implant at:
 - a. 2 months.
 - b. 3 months.
 - c. 4 months.
 - d. 6 months.

7. The pontic form placed in a grafted site should be:
 - a. concave to simulate the natural ridge anatomy.
 - b. convex to fit into a concavity in the soft-tissue pontic area.
 - c. flat to allow easy cleaning.
 - d. relieved from the soft tissue by one millimeter to reduce gingival irritation.

POST-TEST (CONT'D)

V4350 Socket Preservation and Bone Grafting

- 8. Antibiotic delivery when grafting a socket:
 - a. should always be provided.
 - b. should be the decision of the clinician after discussion with the patient.
 - c. should not be provided.
 - d. is not controversial.

- 9. Pain medications when grafting:
 - a. should be of a moderate level.
 - b. should be narcotic.
 - c. are needed only to a minimal level.
 - d. are not necessary.

- 10. Impediments for patients relative to grafting are:
 - a. this is a difficult time-consuming procedure.
 - b. minimal third-party payment coverage.
 - c. there is significant pain associated with the procedure.
 - d. the technique is not successful a significant portion of the time.

PLEASE PRINT

Name _____

Name of video purchaser (if different from above) _____

Address _____

City/State/Zip _____

Phone No. _____

Email _____

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

State License No. _____ AGD No. _____

Payment information Visa American Express Mastercard Discover

Card # _____ - _____ - _____ - _____ Expires ____/____/____ CVV2-Code: _____

For each **CE Video Purchased**, one complimentary test is included. If you require CE tests for *staff members or additional doctors to receive credit, the fee is \$35/person per test.*

If more than 10 CE tests are required per video, please contact PCC at 800-223-6569.