

PRACTICAL CLINICAL COURSES
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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

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

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Solventum
2510 Conway Avenue
St. Paul, MN 55144
(855)423-6725
(612)842-1263
www.3m.com
2. **3M RelyX Unicem**
Solventum
2510 Conway Avenue
St. Paul, MN 55144
(855)423-6725
(612)842-1263
www.3m.com
3. **AccuFilm II**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
4. **Amalgam Condenser**
Various Manufacturers
5. **Big Easy Periostomes**
Premier Dental Co.
1710 Romano Drive
Plymouth Meeting, PA 19462
(888)670-6100
(610)239-6000
www.premierdentalco.com
6. **Bio-Oss**
Geistlich Pharma North America
400 Alexander Park Drive
Suite 302
Princeton, NJ 08540
(855)799-5500
www.geistlich-na.com
7. **Blu-Mousse**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
8. **Copper Bands**
Various Distributors
9. **Cotton Pliers**
Various Distributors
10. **Directed Flow Impression Tray**
Solventum
2510 Conway Avenue
St. Paul, MN 55144
(855)423-6725
(612)842-1263
www.3m.com
11. **Disposable Scalpel**
Various Manufacturers
12. **Easy Cure 2 (Replacement for Triad 2000)**
Henry Schein Dental
135 Duryea Road
Melville, NY 11747
(800)372-4346
(631)843-5500
www.henryschein.com
13. **Elevators**
Various Manufacturers
14. **Filpin by Filhol Dental**
Southeast Medical Products, Inc.
5524 Commerce Drive
Orlando, FL 32839
(407)851-5848
www.filhol.com
15. **Foundation**
J. Morita USA, Inc.
9 Mason
Irvine, CA 92618
(800)831-3222
(949)581-8811
www.jmoritausa.com
16. **GC FujiCEM Automix**
GC America Inc.
3737 West 127th Street
Alsip, IL 60803
(800)323-7063
www.gcamerica.com
17. **Gluma Desensitizer**
Kulzer North America
4315 S. Lafayette Blvd.
South Bend, IN 46614
(800)431-1785
www.kulzerus.com
18. **HemCon Dental Dressing**
Tricol Biomedical, Inc.
720 SW Washington Street
Suite 200
Portland, OR 97205-3504
(877)247-0196
(503)245-0459
www.tricolbiomedical.com
19. **Hemostat**
Various Manufacturers
20. **Integra (Miltex) Sutures**
Various Distributors
21. **Luxator by JS Dental**
Various Distributors

22. **Madame Butterfly Silk**
Almore International
441 19th Street S.E.
Hickory, NC 28602
(800)547-1511
www.almore.com
23. **Maxcem Elite**
Kerr Corporation
200 S. Kraemer Blvd.
Building E2
Brea, CA 92821
(800)537-7123
www.kerrdental.com
24. **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
25. **MicroPrime**
Zest Dental Solutions
2875 Loker Avenue East
Carlsbad, CA 92010
(800)262-2310
(442)244-4835
www.zestdent.com
26. **MinerOss**
BioHorizons
2300 Riverchase Center
Birmingham, AL 35244
(888)246-8338
(205)967-7880
www.biohorizons.com
27. **Needle Holder**
Various Manufacturers
28. **OraGraft**
LifeNet Health
1864 Concert Drive
Virginia Beach, VA 23453
(800)847-7831
(757)464-4761
www.lifenethealth.org
29. **Periosteal Elevator**
Various Manufacturers
30. **Proximator**
Karl Schumacher
1666 East Touhy Avenue
Des Plaines, IL 60018
(800)523-2427
(215)322-0511
www.karlschumacher.com
31. **Puros**
ZimVie Inc.
4555 Riverside Drive
Palm Bch Gardens, FL 33410
(800)342-5454
(561)776-6700
www.zimvie.com
32. **Scissors**
Various Manufacturers
33. **TempBond**
Kerr Corporation
200 S. Kraemer Blvd.
Building E2
Brea, CA 92821
(800)537-7123
www.kerrdental.com
34. **Triad System (See Easy Cure 2 & Megatray Custom Tray Material)**
35. **Vicryl (Ethicon) Sutures**
Henry Schein Dental
135 Duryea Road
Melville, NY 11747
(800)372-4346
(631)843-5500
www.henryschein.com
36. **Wax Spatula**
Various Manufacturers
37. **Zimmer Collagen Plug**
ZimVie Inc.
4555 Riverside Drive
Palm Bch Gardens, FL 33410
(800)342-5454
(561)776-6700
www.zimvie.com
38. **Zimmer Socket Repair Membrane**
ZimVie Inc.
4555 Riverside Drive
Palm Bch Gardens, FL 33410
(800)342-5454
(561)776-6700
www.zimvie.com

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

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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.

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