

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

V4181

Atraumatic Removal of Teeth – Erupted and Impacted

Karl R. Koerner, DDS, MS
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. *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. – 3:00 p.m. Mountain Time to add it to your account.

Gordon J. Christensen
PRACTICAL CLINICAL COURSES
Sources of Products Discussed in

V4181 Atraumatic Removal of Teeth – Erupted and Impacted

Presented by: Karl R. Koerner, DDS, MS & Gordon J. Christensen, DDS, MSD, PhD

1. **Bite Block**
Local Dealer
2. **Bone File**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
3. **Bone File**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
4. **1702 Bur**
Sabra Dental Products
289 Suburban Avenue
Suite E
Deer Park, NY 11729
(800)888-4435
(631)243-6575
www.sabradent.com
5. **1702 Bur**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
6. **Bur (700XXL Extra Long)**
Sabra Dental Products
289 Suburban Avenue
Suite E
Deer Park, NY 11729
(800)888-4435
(631)243-6575
www.sabradent.com
7. **Bur (700XXL Extra Long)**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
8. **Bur Guard**
Bien-Air USA, Inc.
Medical Technologies
5 Corporate Park, Ste 160
Irvine, CA 92606
(800)433-2436
(949)477-6050
www.bienair.com
9. **Cogswell**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
10. **Cogswell**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
11. **Cowhorn**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
12. **Cowhorn**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
13. **Criticare System (506 DN & Others)**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
14. **Criticare System (506 DN and Others)**
Various Distributors
15. **Curved Kelly**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com

16. **Curved Kelly**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
17. **Curved Luxators**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
18. **Dentapop**
Primotec Inc.
5616 Campanile Way
San Diego, CA 92115
(916)849-2637
www.dentapops.com
19. **E301 Elevator**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
20. **Gauze 2X2 and 4X4**
Local Dealer
21. **Hedstrom File**
Dentsply Sirona Endodontics
5100 East Skelly Drive
Suite 300
Tulsa, OK 74135
(800)662-1202
(918)493-6598
www.dentsply.com
22. **Leverage Devices**
A. Titan Instruments
10 Centre Drive
Orchard Park, NY 14127
(877)284-8261
(716)667-9211
www.atitan.com
23. **Leverage Devices**
Sapian Root Remover, LLC
2950 West Camp Wisdom Road
Suite 300
Grand Prairie, TX 75052
(972)641-2900
www.sapianrd.com
24. **Luxators**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
25. **Luxators**
Other Manufacturers
26. **Meisinger Benex Extraction Kit**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
27. **Mini Cryer**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
28. **Needle Holder**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
29. **Needle Holder**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
30. **Periosteal Elevator – 9 Molt**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
31. **Periotome Burs (700, 701, 702)**
Brasseler USA Dental
One Brasseler Blvd.
Savannah, GA 31419
(800)841-4522
www.brasselerusa.com
32. **Periotome Burs (700, 701, 702)**
Komet USA LLC
3042 Southcross Blvd.
Suite 101
Rock Hill, SC 29730
(888)566-3887
www.kometusa.com
33. **Periotomes**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
34. **Periotomes**
A. Titan Instruments
10 Centre Drive
Orchard Park, NY 14127
(877)284-8261
(716)667-9211
www.atitan.com

35. **Physics Forceps**
Golden Dental Solutions
27115 Gratiot Avenue
Suite B
Roseville, MI 48066
(877)987-2284
www.physicsforceps.com
36. **Potts**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
37. **Potts**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
38. **53 R and L**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
39. **53 R and L**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
40. **88 R and L**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
41. **88 R and L**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
42. **Rongeur**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
43. **Rongeur**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
44. **Scalpel Handle**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
45. **Scalpel Handle**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
46. **Seldin Retractor**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
47. **Seldin Retractor**
Various Manufacturers
48. **Sterile Saline**
Local Dealer
49. **Straight Elevator**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
50. **Straight Elevator**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
51. **Suction Tips**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
52. **Suction Tips**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
53. **Surgical Handpiece**
Stryker Global Headquarters
2825 Airview Blvd.
Kalamazoo, MI 49002
(269)385-2600
www.stryker.com

54. **Surgical Handpiece
(Hall 5058-01 Surgairtome 2
Pneumatic)**
Handpiece Solutions
6785 S. Eastern Ave, Ste 11
Las Vegas, NV 89119
(888)488-3885
(702)388-1888
www.handpiecesolutions.com
55. **Surgical Handpiece
(Sabra Power 45-S)**
Sabra Dental Products
289 Suburban Avenue
Suite E
Deer Park, NY 11729
(800)888-4435
(631)243-6575
www.sabradent.com
56. **Surgical Scissor**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
57. **Surgical Scissor**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
58. **Surgical Spoon Curette**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
59. **Surgical Spoon Curette**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
60. **Sutures**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
61. **Universal Forceps (150, 151)**
Hu-Friedy Mfg. Co., LLC
3232 North Rockwell Street
Chicago, IL 60618-5935
(800)483-7433
www.hu-friedy.com
62. **Universal Forceps (150, 151)**
Salvin Dental Specialties, Inc.
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.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.

PROGRAM

V4181 Atraumatic Removal of Teeth – Erupted and Impacted

CLINICIANS RESPONSIBLE:

Karl R. Koerner, DDS, MS

General Practitioner, Logan, Utah

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 importance of competence in oral surgery for general dental practitioners.
2. List and describe the typical historical oral surgery instruments.
3. List and describe typical new generation oral surgery instruments.
4. Discuss surgical concepts related to oral surgery.
5. Discuss handpieces commonly used in oral surgery.
6. Describe the typical technique for removal of erupted teeth with supragingival tooth structure present.
7. Discuss the typical technique for removal of erupted teeth broken off at the gingiva or bone.
8. Discuss sutures most suitable for oral surgery.
9. Describe a typical technique for removal of impacted teeth.
10. Discuss use of narcotics for oral surgery procedures.
11. Discuss use of antibiotics for oral surgery procedures.
12. Describe commonly occurring surgical complications.
13. Describe a “luxator”.
14. Describe the action of removal of a mandibular first molar with a “cowhorn” forcep.
15. Describe the relative level of force needed to remove a tooth.
16. Describe how to place elevator force on a tooth to be extracted without placing force on adjacent teeth.
17. Discuss how to achieve compression of bone during tooth extraction.
18. Discuss the reasons for sectioning teeth for tooth removal.
19. Discuss use of periostomes.
20. Discuss air emphysema.

OVERVIEW

V4181 Atraumatic Removal of Teeth - Erupted and Impacted

Tooth extraction is a commonly required procedure for almost all general dentists. Education and training, as well as significant experience, are required to achieve competency in tooth removal. This video describes and demonstrates the principles for removal of erupted and impacted teeth, techniques, and potential complications. The following topics are included:

- Importance of competence in surgical procedures.
- Conventional oral surgery instruments.
- Newer oral surgery instruments.
- Surgical concepts.
- Surgical handpieces.
- Use of surgical handpieces.
- Removal of erupted teeth with supragingival tooth structure present.
- Sutures and suturing.
- Removal of erupted teeth broken off at the gingiva or bone.
- Removal of multiple teeth.
- Removal of impacted teeth.
- Analgesic use.
- Antibiotic use.
- Commonly occurring surgical complications.
- Postoperative care.
- Clinical demonstrations of tooth removal on patients are included for each procedure.

SUPPLEMENTAL MATERIALS

V4181 Atraumatic Removal of Teeth - Erupted and Impacted

1. Bataineh AB, Al-Sabri GA. Extraction of Maxillary Teeth Using Articaine Without a Palatal Injection: A Comparison Between the Anterior and Posterior Regions of the Maxilla. *J Oral Maxillofac Surg.* 2017 Jan;75(1):87-91. doi: 10.1016/j.joms.2016.06.192. Epub 2016 Jul 21.
2. Ghaeminia H, Hoppenreijts TJ, Xi T, Fennis JP, Maal TJ, Bergé SJ, Meijer GJ. Postoperative socket irrigation with drinking tap water reduces the risk of inflammatory complications following surgical removal of third molars: a multicenter randomized trial. *Clin Oral Investig.* 2017 Jan;21(1):71-83. doi: 10.1007/s00784-016-1751-1. Epub 2016 Feb 27.
3. Ye ZX, Yang C, Ge J. Adjacent tooth trauma in complicated mandibular third molar surgery: Risk degree classification and digital surgical simulation. *Sci Rep.* 2016 Dec 15;6:39126. doi: 10.1038/srep39126.
4. Izuzquiza I, Jamtøy KA, Fosslund NP, Martinez-Padilla I, Falahat F, Alou L, Prieto J, Gómez-Lus ML. Is it necessary to prescribe antibiotics in impacted third molar surgical removal?: comparative study between prescribing patterns. *Rev Esp Quimioter.* 2016 Nov 22. pii: izuzquiza22nov20162. [Epub ahead of print]
5. Bataineh AB, Batarseh RA. The effect of modified surgical flap design for removal of lower third molars on lingual nerve injury. *Clin Oral Investig.* 2016 Nov 12. [Epub ahead of print]
6. Ghaeminia H, Perry J, Nienhuijs ME, Toedtling V, Tummers M, Hoppenreijts TJ, Van der Sanden WJ, Mettes TG. Surgical removal versus retention for the management of asymptomatic disease-free impacted wisdom teeth. *Cochrane Database Syst Rev.* 2016 Aug 31;(8):CD003879. doi: 10.1002/14651858.CD003879.pub4.
7. Mukherjee S, Vikraman B, Sankar D, Veerabahu MS. Evaluation of Outcome Following Coronectomy for the Management of Mandibular Third Molars in Close Proximity to Inferior Alveolar Nerve. *J Clin Diagn Res.* 2016 Aug;10(8):ZC57-62. doi: 10.7860/JCDR/2016/20991.8273. Epub 2016 Aug 1.
8. Cervera-Espert J, Pérez-Martínez S, Cervera-Ballester J, Peñarrocha-Oltra D, Peñarrocha-Diogo M. Coronectomy of impacted mandibular third molars: A meta-analysis and systematic review of the literature. *Med Oral Patol Oral Cir Bucal.* 2016 Jul 1;21(4):e505-13.
9. Tantanapornkul W, Mavin D, Prapaiphittayakun J, Phipatboonyarat N, Julphantong W. Accuracy of Panoramic Radiograph in Assessment of the Relationship Between Mandibular Canal and Impacted Third Molars. *Open Dent J.* 2016 Jun 23;10:322-9. doi: 10.2174/1874210601610010322. eCollection 2016.
10. Jain N, Thomas S, Prabhu S, Jain S, Pathak AD, Pillai A, Satpathy M. Influence of tooth sectioning technique and various risk factors in reducing the IAN injury following surgical removal of an impacted mandibular third molar. *Oral Maxillofac Surg.* 2016 Jun;20(2):149-56. doi: 10.1007/s10006-015-0540-3. Epub 2015 Dec 28.

POST-TEST

V4181 Atraumatic Removal of Teeth - Erupted and Impacted

1. Why should general dentists have competency in tooth removal?
 - a. To have peace of mind when faced with the necessity for tooth removal.
 - b. To provide one-stop service for their patients.
 - c. To be able to manage potential surgical complications.
 - d. All of the above.
2. Air emphysema is caused by:
 - a. excessive vigorous breathing causing bloating of the lungs and fainting.
 - b. blowing air from a handpiece into the soft tissues.
 - c. treating a patient with emphysema from smoking.
 - d. none of the above.
3. Most oral surgeons use a _____ for bone removal when removing impacted teeth.
 - a. surgical high-speed air motor or electric handpiece
 - b. restorative air rotor
 - c. restorative electric handpiece
 - d. none of the above
4. The following are newer instruments for oral surgery procedures:
 - a. periotome burs.
 - b. double-ended periotomes.
 - c. luxating elevators.
 - d. Physics Forceps.
 - e. all of the above.
5. The type of suture material recommended in this presentation is:
 - a. polyester.
 - b. PGA.
 - c. black silk.
 - d. Chromic Gut.
6. The following are conventional instruments long used in oral surgery procedures:
 - a. Rongeurs.
 - b. Universal Forceps.
 - c. Bone Files.
 - d. all of the above.
7. When removing a tooth with a "luxator", force should be applied in an apical direction on the _____ side(s) of the tooth.
 - a. facial and lingual
 - b. distal only
 - c. mesial only
 - d. mesial and distal

POST-TEST (CONT'D)

V4181 Atraumatic Removal of Teeth - Erupted and Impacted

8. When using a "luxator", the instrument should be inserted into the periodontal ligament about _____.
a. 1 mm
b. 2 mm
c. 3 mm
d. 4 mm
9. When removing impacted third molars:
a. making a surgical flap is always recommended.
b. removal of bone for access to the tooth is always recommended.
c. making a surgical flap and removing some bone for instrument access is often necessary.
d. suturing the extraction site is usually necessary.
10. What protocol is recommended when removing impactions?
a. Narcotics are necessary due to severe postoperative pain.
b. Antibiotic delivery is usually necessary.
c. Use of antibiotics and narcotics may be necessary.
d. Always deliver only non-prescription analgesics.

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 @ 800-223-6569.