

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

V4346

Easy Crown Lengthening

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Materials Included

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Sources of Products Discussed in

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Presented by: Jon Suzuki, DDS, PhD, MBA & Gordon J. Christensen, DDS, MSD, PhD

1. **ACE Instant Ice**
ACE Surgical Supply Co.
1034 Pearl Street
P.O. Box 1710
Brockton, MA 02301
(800)441-3100
(508)588-3100
www.acesurgical.com
2. **Bard-Parker
(No. 15 & 12D Blade)**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
3. **Bone Wax W31G**
Ethicon, Inc.
A Johnson & Johnson Company
One Johnson & Johnson Plaza
New Brunswick, NJ 08933
(888)222-6036
(732)524-0400
www.jnj.com
4. **Coe-Pak**
GC America, Inc.
3737 West 127th Street
Alsip, IL 60803
(800)323-3386
(708)597-0900
www.gcamerica.com
5. **Crest Pro-Health**
Procter & Gamble
2 Procter & Gamble Plaza
Cincinnati, OH 45202
(800)543-2577
(513)983-1100
www.dentalcare.com
6. **Curette**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
7. **Curette (S13K/TG)**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
8. **GENTLEray 980**
KaVo Dental
11727 Fruehauf Drive
Charlotte, NC 28273
(888)275-5286
(704)588-2126
www.kavousa.com
9. **Kirkland Knife**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
10. **Listerine**
Johnson & Johnson
One Johnson & Johnson Plaza
New Brunswick, NJ 08933
(888)222-6036
(732)524-0400
www.jnj.com
11. **Mirror**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
12. **Molt**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
13. **Needle Holder**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
14. **Odyssey Laser Tip**
Ivoclar Vivadent, Inc.
175 Pineview Drive
Amherst, NY 14228
(800)533-6825
(716)691-0010
www.ivoclarvivadent.us.com
15. **Orban Knife**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com

16. **Oris**
Dentsply Professional
1301 Smile Way
P.O. Box 7807
York, PA 17404-1785
(800)989-8825
(717)767-8500
www.dentsply.com
17. **Peridex**
3M ESPE Dental Products
3M Center
Bldg. 275-2SE-03
St. Paul, MN 55144
(800)634-2249
(651)575-5144
www.3mespe.com
18. **Periogard**
Colgate Oral Pharmaceuticals
300 Park Avenue
New York, NY 10022
(800)225-3756
(212)310-2000
www.colgateprofessional.com
19. **Perio Probe**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
20. **Pliers**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
21. **Scalpel (Disposable)**
Henry Schein, Inc.
Corporate Headquarters
135 Duryea Road
Melville, NY 11747
(800)582-2702
(631)843-5500
www.henryschein.com
22. **Scalpel (Disposable)**
Local Dealer
23. **Sensimatic Electrosurge 600SE**
Parkell Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
24. **Sugarman File #3S/4S (FS 3/4S)**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
25. **Surgical Burs (#6, #8)**
Brasseler U.S.A.
One Brasseler Blvd.
Savannah, GA 31419-9598
(800)841-4522
(912)925-8525
www.brasselerusa.com
26. **Surgical Burs (#6, #8)**
Salvin Dental Specialties
3450 Latrobe Drive
Charlotte, NC 28211
(800)535-6566
(704)442-5400
www.salvin.com
27. **Surgical Scissors**
Hu-Friedy Mfg. Co., Inc.
3232 North Rockwell Street
Chicago, IL 60618
(800)729-3743
(773)975-6100
www.hu-friedy.com
28. **Vicryl Sutures 4-0**
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A Johnson & Johnson Company
One Johnson & Johnson Plaza
New Brunswick, NJ 08933
(888)222-6036
(732)524-0400
www.jnj.com

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PROGRAM

V4346 Easy Crown Lengthening

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GOALS & OBJECTIVES

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

1. Discuss why crown lengthening is often necessary or desirable.
2. List and discuss alternatives for crown lengthening.
3. Discuss potential medical implications relative to crown lengthening.
4. Discuss the GP crown lengthening kit vs. the more advanced kit for crown lengthening.
5. Discuss biologic width and its relationship to crown lengthening.
6. Support the use of preoperative antimicrobial rinses.
7. Discuss adequate local anesthetic for crown lengthening.
8. List the steps in a typical crown lengthening requiring removal of osseous tissue.
9. Discuss the location of the releasing incision.
10. Describe the instruments used for flap elevation.
11. Discuss the need for scaling teeth after flap elevation.
12. Describe methods and instruments for osseous tissue removal.
13. Discuss the optimum location of the released flap in relation to the osseous tissue.
14. Describe optimum suturing technique and type of sutures.
15. If excess bleeding occurs, describe how to control the hemorrhage.
16. Discuss need or lack of need for periodontal dressings.
17. List adequate postoperative instructions for crown lengthening.
18. Discuss pain management for crown lengthening.
19. Discuss need for antibiotics for crown lengthening.
20. List some typical errors that can be made during crown lengthening.

OVERVIEW

V4346 Easy Crown Lengthening

The purpose of this presentation is to provide in-depth information on crown lengthening, and to provide observation of a live surgery allowing typical surgically experienced dentists to accomplish simple crown lengthening in their own practices. The following subjects are included in the video:

1. Objectives for this presentation
2. Why crown lengthening?
3. Alternatives for crown lengthening
4. Medical implications in crown lengthening
5. Treatment planning for crown lengthening
6. Armamentarium for crown lengthening
7. Presurgical patient management
8. Biologic width
9. Live patient demonstration of crown lengthening including:
 - a. Surgical prerinse
 - b. Anesthetic
 - c. Releasing vertical incisions
 - d. Flap elevation
 - e. Tooth scaling
 - f. Evaluation of restorative needs
 - g. Osseous recontouring
 - h. Flap management
 - i. Suturing
 - j. Hemorrhage control
 - k. Periodontal dressing
 - l. Ice packs
 - m. Antibiotics
 - n. Antimicrobials
 - o. Pain management
 - p. Postoperative instructions
10. Postoperative appointments
11. Practice management
12. Potential surgical errors
13. Conclusions

REFERENCES

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2. Hempton TJ, Dominici JT. Contemporary crown-lengthening therapy: a review. J Am Dent Assoc. 2010 Jun;141(6):647-55.
3. Park JB. Restoration of the severely decayed tooth using crown lengthening with simultaneous tooth-preparation. Eur J Dent. 2010 Apr;4(2):197-201.
4. Lack JD. Aesthetic crown lengthening: a step by step surgical guide and biologic considerations. Alpha Omegan. 2009 Dec;102(4):133-41.
5. Borges I Jr, Ribas TR, Duarte PM. Guided esthetic crown lengthening: case reports. Gen Dent. 2009 Nov-Dec;57(6):666-71.
6. Gupta I, Vandana KL. Alterations of the marginal soft tissue (gingival margin) following periodontal therapy: A clinical study. J Indian Soc Periodontol. 2009 May;13(2):85-9.
7. Bateman GJ, Karir N, Saha S. Principles of crown lengthening surgery. Dent Update. 2009 Apr;36(3):181-2, 184-5.
8. Cunliffe J, Grey N. Crown lengthening surgery – indications and techniques. Dent Update. 2008 Jan-Feb;35(1):29-30, 32, 34-5.
9. Camargo PM, Melnick PR, Camargo LM. Clinical crown lengthening in the esthetic zone. J Calif Dent Assoc. 2007 Jul;35(7):487-98.

POST-TEST

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1. Crown lengthening is indicated for:
 - a. obtaining more clinical crown length for crown or abutment retention.
 - b. equalizing the visible level of the gingival crests of teeth in the smile area to improve esthetics.
 - c. patients with a "gummy smile".
 - d. all of the above.

2. A simple technique for crown lengthening can be done with electrosurgery or laser if ___mm of free gingival sulcus remains after removal of adequate soft tissue for retention or esthetic requirements.
 - a. ½
 - b. 1
 - c. 2
 - d. 3

3. Typical crown lengthening with osseous tissue removal:
 - a. has an American Dental Association (ADA) code and most companies pay for it.
 - b. does not have ADA codes.
 - c. has an ADA code, but only a few "insurance" companies provide benefits for this procedure.
 - d. none of the above.

4. "Biologic width" can be easily defined into three components - gingival crevice, junctional epithelium, and gingival fibers. These three components:
 - a. cannot be easily differentiated.
 - b. vary significantly among patients.
 - c. are about 1mm each.
 - d. are unequal.

5. Three potential preoperative and postoperative rinses were suggested. They were:
 - a. chlorhexidine, alcohol, phenols.
 - b. any antimicrobiologic rinse is adequate.
 - c. chlorhexidine, phenols, cetylpyridinium.
 - d. chlorhexidine, hydrogen peroxide, phenols.

6. The first surgical procedure in the technique demonstrated was to:
 - a. make two vertical releasing incisions.
 - b. accomplish curettage of the gingival tissues with a scaler.
 - c. make one vertical releasing incision.
 - d. release the epithelial attachment from the involved teeth by cutting along the gingival line with a surgical instrument.

7. Flap elevation:
 - a. was made with a partial thickness flap only.
 - b. completely released the attached gingiva from the osseous tissue to the level of the alveolar mucosa.
 - c. released the attached gingiva ½ of the way to the alveolar mucosa.
 - d. did not extend to the alveolar mucosa.

POST-TEST (CONT'D)

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- 8. It was suggested that osseous tissue removal is best removed with:
 - a. a rotary diamond instrument.
 - b. a manual "hand" instrument.
 - c. a rotary carbide bur.
 - d. a sharp scaler.

- 9. Antibiotics for crown lengthening were:
 - a. suggested for all crown lengthening patients.
 - b. amoxicillin.
 - c. suggested as usually not needed.
 - d. penicillin.

- 10. Sutures were suggested to be placed:
 - a. not at all.
 - b. always with black silk.
 - c. never with vicryl.
 - d. not too tight and in the vertical releasing flaps as well as circumferentially around each of the involved teeth.

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