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**S4351**

### **Surgical Crown Lengthening Simplified (Restorative Emphasis)**

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**  
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**PRACTICAL CLINICAL COURSES**  
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Presented by: Gordon J. Christensen, DDS, MSD, PhD

1. **Aesthetic Gauges (Dr. Chu)**  
Hu-Friedy Mfg. Co., LLC  
3232 North Rockwell Street  
Chicago, IL 60618-5935  
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[www.hufriedygroup.com](http://www.hufriedygroup.com)
2. **Basic Periodontal Surgical Kit (Dr. John Suzuki)**  
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3. **Bioplant Grafting Material**  
Various Distributors  
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4. **Crile-Wood Needle Holder (15 cm/6") (Part of Basic Periodontal Surgical Kit)**  
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5. **Disposable Scalpel**  
Various Distributors
6. **Ellman Electrosurgery Tips**  
Cynosure, LLC  
5 Carlisle Road  
Westford, MA 01886  
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[www.ellman.com](http://www.ellman.com)
7. **Epic Pro**  
BIOLASE, Inc.  
27042 Towne Centre Drive  
Suite 270  
Foothill Ranch, CA 92610-2811  
(833)246-5273  
(949)361-1200  
[www.biolase.com](http://www.biolase.com)
8. **Gemini**  
Ultradent Products, Inc.  
505 West Ultradent Drive  
South Jordan, UT 84095  
(888)230-1420  
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9. **Goldman-Fox Scissors (12.5 cm/5") (Part of Basic Periodontal Surgical Kit)**  
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11. **#13K/TG Kirkland Periodontal Chisel (Part of Basic Periodontal Surgical Kit)**  
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12. **LightWalker ATS**  
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4343 West Royal Lane  
Suite 116  
Irving, TX 75063  
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[www.fotona.com/us/](http://www.fotona.com/us/)
13. **LS-2010**  
LightScalpel  
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[www.lightscalpel.com](http://www.lightscalpel.com)
14. **Luxator**  
Various Distributors
15. **17/18 McCall Curette (Part of Basic Periodontal Surgical Kit)**  
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16. **2/4 Molt Surgical Curette (Part of Basic Periodontal Surgical Kit)**  
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17. **1/2 Orban Periodontal Knife (Part of Basic Periodontal Surgical Kit)**  
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18. **Picasso Lite**  
AMD Lasers  
4628 West Skyhawk Dr.  
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19. **PTFE Barrier**  
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22. **Solea**  
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[www.convergentdental.com](http://www.convergentdental.com)
23. **1S/2S Sugarman Periodontal File (Part of Basic Periodontal Surgical Kit)**  
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24. **UltraSpeed 20**  
DEKA Dental Lasers  
400 North Ashley Drive  
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[www.dekadentallasers.com](http://www.dekadentallasers.com)
25. **VITA VM LC Indirect Composite**  
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(800)828-3839  
[www.vitanorthamerica.com](http://www.vitanorthamerica.com)
26. **Waterlase Express**  
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27042 Towne Centre Drive  
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Foothill Ranch, CA 92610-2811  
(833)246-5273  
(949)361-1200  
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***Product names, the products themselves, and company names change rapidly. Please contact the companies shown to confirm current information.***

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## PROGRAM

### **S4351 Surgical Crown Lengthening Simplified (Restorative Emphasis)**

#### 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

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

1. Define when crown lengthening is needed for esthetic reasons.
2. Define when crown lengthening is mandatory for salvaging a tooth.
3. Draw an anatomical picture of the gingival attachment apparatus to the tooth.
4. Describe biologic width and draw a picture of it.
5. Describe the connective tissue attachment to a tooth.
6. Describe the epithelial attachment.
7. Approximate typical sulcus depth and how it relates to restorative dentistry.
8. Describe gingivectomy.
9. Describe when gingivectomy is indicated.
10. Describe surgical crown lengthening with bone removal.
11. Discuss when to do surgical crown lengthening with bone removal.
12. Discuss the basic instruments for gingivectomy.
13. Discuss the basic instruments for crown lengthening with bone removal.
14. Compare cutting soft tissue with a scalpel, an electrosurgery unit, and a laser.
15. Discuss the negative challenges when the biologic width is not correct.
16. Discuss how long to wait after gingivectomy before doing restorative dentistry.
17. Discuss how long to wait after crown lengthening with bone removal before doing restorative dentistry.
18. Discuss anesthetic use for crown lengthening procedures.
19. List situations in your practice where crown lengthening would be helpful.
20. Implement crown lengthening into your practice.

## OVERVIEW

### **S4351 Surgical Crown Lengthening Simplified (Restorative Emphasis)**

Although crown lengthening is a valuable procedure and accomplished usually by periodontists, it could be accomplished by more general dentists. Gingivectomy is a relatively simple surgical procedure. It heals rapidly and is highly useful for both esthetic and restorative procedures. Bone removal relative to crown lengthening is somewhat more complex but still well within the realm of general dentistry for those who are interested.

The following topics are included in this video:

- When crown lengthening is needed for esthetic reasons.
- When crown lengthening is mandatory for salvaging a tooth.
- The anatomical picture of the gingival attachment apparatus to the tooth.
- Biologic width.
- The connective tissue attachment to a tooth.
- The epithelial attachment.
- Typical sulcus depth and how it relates to restorative dentistry.
- Gingivectomy.
- When gingivectomy is indicated.
- Surgical crown lengthening with bone removal.
- When to do surgical crown lengthening with bone removal.
- The basic instruments for gingivectomy.
- The basic instruments for crown lengthening with bone removal.
- A comparison of cutting soft tissue with a scalpel, an electrosurgery, and a laser.
- The negative challenges when the biologic width is not correct.
- How long to wait after gingivectomy before doing restorative dentistry.
- How long to wait after crown lengthening with bone removal before doing restorative dentistry.
- Anesthetic use for crown lengthening procedures.
- Situations in your practice where crown lengthening would be helpful.
- How to implement crown lengthening into your practice.

## SUPPLEMENTAL MATERIALS

### **S4351 Surgical Crown Lengthening Simplified (Restorative Emphasis)**

1. Hanisch M, Wagner B, Schuh P. Digitally planned surgical crown lengthening in the esthetic zone. *Int J Comput Dent*. 2023 May 26;26(2):175-182. doi: 10.3290/j.ijcd.b3799799.
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3. Oh SL, Abrera-Crum L, Yang JS, Choi SK. New approach to expedite the delivery of the final crowns for teeth requiring crown lengthening surgery: a pilot study. *BMC Oral Health*. 2022 Nov 2;22(1):462. doi: 10.1186/s12903-022-02491-w.
4. Christensen GJ. Ask Dr. Christensen: Increase your service and revenue with elective dental procedures. *Dental Economics*. 2022 Sep;112(9):60-2.
5. Dowlatshahi MS, Anoosh G, Alania J, Latimer JM. Crown Lengthening Techniques and Modifications to Treat Excessive Gingival Display. *Dent Clin North Am*. 2022 Jul;66(3):361-372. doi: 10.1016/j.cden.2022.03.002. Epub 2022 May 31.
6. Christensen GJ. Ask Dr. Christensen: What are the main reasons for failure of dental implants? *Dental Economics*. 2022 May;112(5):60-3.
7. Mugri MH, Sayed ME, Nedumgottil BM, Bhandi S, Raj AT, Testarelli L, Khurshid Z, Jain S, Patil S. Treatment Prognosis of Restored Teeth with Crown Lengthening vs. Deep Margin Elevation: A Systematic Review. *Materials (Basel)*. 2021 Nov 8;14(21):6733. doi: 10.3390/ma14216733.
8. Christensen GJ. Ask Dr. Christensen: The satisfying and productive preventive practice. *Dental Economics*. 2021 Mar;111(3):60-2.
9. González-Martin O, Carbajo G, Rodrigo M, Montero E, Sanz M. One- versus two-stage crown lengthening surgical procedure for aesthetic restorative purposes: A randomized controlled trial. *J Clin Periodontol*. 2020 Dec;47(12):1511-1521. doi: 10.1111/jcpe.13375. Epub 2020 Oct 20.
10. Christensen GJ. Ask Dr. Christensen: Preventing recurrent caries on restorations. *Dental Economics*. 2020 Apr;110(4):63-5.
11. Christensen GJ. Ask Dr. Christensen: Let's save teeth! *Dental Economics*. 2020 Mar;110(3):71-3.
12. Aroni MAT, Pigossi SC, Pichotano EC, de Oliveira GJPL, Marcantonio RAC. Esthetic crown lengthening in the treatment of gummy smile. *Int J Esthet Dent*. 2019;14(4):370-382.
13. Marzadori M, Stefanini M, Sangiorgi M, Mounssif I, Monaco C, Zucchelli G. Crown lengthening and restorative procedures in the esthetic zone. *Periodontol 2000*. 2018 Jun;77(1):84-92. doi: 10.1111/prd.12208. Epub 2018 Mar 1.

## POST-TEST

### **S4351 Surgical Crown Lengthening Simplified (Restorative Emphasis)**

1. Crown lengthening is indicated for:
  - a. Esthetics.
  - b. Facilitating tooth buildups.
  - c. Specific diseases that cause gingival growth.
  - d. All the above.
  
2. A ferrule effect of about \_\_\_\_\_ should be present on preps for broken-down teeth.
  - a. 1 mm
  - b. 2 mm
  - c. 3 mm
  - d. 4 mm
  
3. The biologic width includes:
  - a. Epithelial attachment and sulcus.
  - b. Sulcus and connective tissue.
  - c. Connective tissue and epithelial attachment.
  
4. A gingivectomy must leave at least \_\_\_\_\_ of sulcus.
  - a. 1 mm
  - b. 3 mm
  - c. 2 mm
  - d. 4 mm
  
5. A gingivectomy includes:
  - a. Soft tissue only.
  - b. Bone and soft tissue.
  - c. Bone only.
  
6. Perform bone removal if:
  - a. The sulcus is 5 mm deep.
  - b. The gingival line is uneven.
  - c. It is necessary to allow gingival removal and still have 1 mm of sulcus left.
  
7. You may do a gingivectomy and bone removal on the same arch to correct a specific need.
  - a. True
  - b. False



**POST-TEST (CONT'D)**

**S4351 Surgical Crown Lengthening Simplified (Restorative Emphasis)**

- 8. An anesthetic block is required for crown lengthening.
  - a. True
  - b. False
  
- 9. Both a gingivectomy and crown lengthening with bone removal are within the scope of educated/trained general dentists.
  - a. True
  - b. False
  
- 10. Antibiotics should usually be prescribed for crown lengthening.
  - a. True
  - b. False

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