

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

S1147

Optimizing Use of Cone Beam Radiology

Louis DeFilippo (Cone Beam Expert)
Gordon J. Christensen, DDS, MSD, PhD

Materials Included:

C.E. Instruction Sheet
Products List
Clinician Responsible
Goals & Objectives
Overview
Supplemental Materials
AGD Post-Test

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PRACTICAL CLINICAL COURSES

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PRACTICAL CLINICAL COURSES
Sources of Products Discussed in
S1147 Optimizing Use of Cone Beam Radiology

Presented by Louis DeFilippo (Cone Beam Expert) & Gordon J. Christensen, DDS, MSD, PhD

List of Cone Beam Companies (Alpha Order):

- | | | |
|---|--|--|
| 1. Air Techniques, Inc.
1295 Walt Whitman Road
Melville, NY 11747
(800)247-8324
(516)433-7676
www.airtechniques.com | 7. ImageWorks
8 Westchester Plaza
Suite 112
Elmsford, NY 10523
(914)592-6100
www.imageworkscorporation.com | 12. Ray America Inc.
400 Kelby Street
Suite 1500
Fort Lee, NJ 07024
(800)976-4586
www.rayamerica.com |
| 2. Carestream Dental LLC
3625 Cumberland Blvd.
Suite 700
Atlanta, GA 30339
(800)944-6365
www.carestreamdental.com | 8. J. Morita USA, Inc.
9 Mason
Irvine, CA 92618
(800)831-3222
www.morita.com/usa | 13. Suni Medical Imaging
6840 Via Del Oro
Suite 1600
San Jose, CA 95119
(800)438-7864
(408)227-6698
www.suni.com |
| 3. Cefla North America
6125 Harris Technology Blvd.
Charlotte, NC 28269
(800)416-3078
(704)598-0020
www.ceflamedicalna.com | 9. Owandy Radiology
North America Subsidiary
55 Lumber Road, Ste 145
Roslyn, NY 11576
(516)858-5695
www.owandy.com | 14. Vatech America
2200 Fletcher Avenue
Suite 705A
Fort Lee, NJ 07024
(888)396-6872
(201)210-5028
www.vatechamerica.com |
| 4. Dentsply Sirona Imaging
13320-B Ballantyne Corporate
Place
Charlotte, NC 28277
(800)877-0020
www.dentsplysirona.com | 10. Planmeca USA Inc.
2600 Forbs Avenue
Hoffman Estates, IL 60192
(800)537-6070
(630)529-2300
www.planmeca.com | |
| 5. DEXIS
450 Commerce Drive
Quakertown, PA 18951
(888)883-3947
www.dexis.com | 11. PreXion Inc.
181 Metro Drive
Suite 190
San Jose, CA 95110
(855)773-9466
(650)212-0314
www.prexion.com | |
| 6. Genoray America Inc.
147 E. Bristol Lane
Orange, CA 92865
(855)436-6729
www.genorayamerica.com | | |

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Sources of Products Discussed in

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Presented by Louis DeFilippo (Cone Beam Expert) & Gordon J. Christensen, DDS, MSD, PhD

1. **CenterPoint Dallas Showroom**
Benco Dental
501 Lakeside Parkway
Flower Mound, TX 75028
(972)355-1359
www.benco.com
2. **CenterPoint East Showroom**
Benco Dental
295 Centerpoint Blvd.
Pittston, PA 18640
(800)462-3626
www.benco.com
3. **CenterPoint West Showroom**
Benco Dental
3590 Harbor Gateway North
Costa Mesa, CA 92626
(714)424-0977
www.benco.com
4. **Green X**
Vatech America
2200 Fletcher Avenue
Suite 705A
Fort Lee, NJ 07024
(888)396-6872
(201)210-5028
www.vatechamerica.com
5. **i-CAT**
DEXIS
450 Commerce Drive
Quakertown, PA 18951
(888)883-3947
www.dexis.com
6. **NewTom**
Cefla North America
6125 Harris Technology Blvd.
Charlotte, NC 28269
(800)416-3078
(704)598-0020
www.ceflamedicalna.com
7. **ProVecta 3D Prime**
Air Techniques, Inc.
1295 Walt Whitman Road
Melville, NY 11747
(800)247-8324
(516)433-7676
www.airtechniques.com
8. **Viso**
Planmeca USA Inc.
2600 Forbs Avenue
Hoffman Estates, IL 60192
(800)537-6070
(630)529-2300
www.planmeca.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

S1147 Optimizing Use of Cone Beam Radiology

CLINICIANS RESPONSIBLE:

Louis DeFilippo (Cone Beam Expert)

Vice President of Sales at Vatech America, Inc.

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 describe the following topics and their potential uses:

1. Discuss cone beam uses for general dental practice.
2. Discuss cone beam uses for diagnosis.
3. Discuss cone beam uses for endodontics.
4. Discuss cone beam uses for implant dentistry.
5. Discuss cone beam uses for tooth impactions.
6. Discuss cone beam uses for orthodontics.
7. Discuss cone beam uses for sleep medicine.
8. Discuss if cone beam should be used in your practice for all patients.
9. Discuss panoramic radiographs made by a cone beam device.
10. Demonstrate how cone beam can be used to educate patients about endodontics.
11. Demonstrate how cone beam can be used to educate patients about tooth impactions.
12. Demonstrate how cone beam can be used to educate patients about implants.
13. List advantages of cone beam for specific needs in your practice.
14. List overall advantages of cone beam for your practice.
15. Demonstrate cone beam use for comprehensive treatment planning.
16. List advantages of cone beam for long-term follow-up on clinical procedures.
17. List limitations of cone beam.
18. Discuss areas of potential legal liability for cone beam images.
19. Determine and discuss the financial implications of cone beam for your practice.
20. The potential future for cone beam in your practice.

OVERVIEW

S1147 Optimizing Use of Cone Beam Radiology

Cone beam radiology was invented and started in dentistry in the late 1990s. It has provided unprecedented advantages. The concept has been relatively slow to come into dental practice.

At the time of this video production, most dental specialists have cone beam, but only about 40% of GPs have cone beam. It is anticipated that cone beam will gradually become standard of care for most dental practices.

Cone beam topics included in this video are:

- Cone beam uses for general dental practice.
- Cone beam uses for diagnosis.
- Cone beam uses for endodontics.
- Cone beam uses for implant dentistry.
- Cone beam uses for tooth impactions.
- Cone beam uses for orthodontics.
- Cone beam uses for sleep medicine.
- When to use cone beam in your practice.
- Panoramic radiographs made by a cone beam device.
- How cone beam can be used to educate patients about endodontics.
- How cone beam can be used to educate patients about tooth impactions.
- How cone beam can be used to educate patients about implants.
- Advantages of cone beam for your practice.
- Overall advantages of cone beam for specific procedures in your practice.
- Cone beam use for comprehensive treatment planning.
- Advantages of cone beam for long-term follow-up on clinical procedures.
- Limitations of cone beam.
- Areas of potential legal liability for cone beam images.
- Financial implications of cone beam for your practice.
- Future for cone beam in your practice.

SUPPLEMENTAL MATERIALS

S1147 Optimizing Use of Cone Beam Radiology

1. Christensen GJ. Ask Dr. Christensen: When older, proven clinical concepts might be better. *Dental Economics*. 2022 Oct;112(10):26-30.
2. Mostafapoor M, Hemmatian S. Evaluation of the accuracy values of cone-beam CT regarding apical periodontitis: a systematic review and meta-analysis. *Oral Radiol*. 2022 Jul;38(3):309-314. doi: 10.1007/s11282-021-00549-z. Epub 2021 Jun 26.
3. Christensen GJ. Ask Dr. Christensen: Is it time to revitalize your practice? *Dental Economics*. 2022 Apr;112(4):44-6.
4. Stokes K, Thieme R, Jennings E, Sholapurkar A. Cone beam computed tomography in dentistry: practitioner awareness and attitudes. A scoping review. *Aust Dent J*. 2021 Sep;66(3):234-245. doi: 10.1111/adj.12829. Epub 2021 Feb 23.
5. Kaasalainen T, Ekholm M, Siiskonen T, Kortensniemi M. Dental cone beam CT: An updated review. *Phys Med*. 2021 Aug;88:193-217. doi: 10.1016/j.ejmp.2021.07.007. Epub 2021 Jul 17.
6. Assouline SL, Meyer C, Weber E, Chatelain B, Barrabe A, Sigaux N, Louvrier A. How useful is intraoperative cone beam computed tomography in maxillofacial surgery? An overview of the current literature. *Int J Oral Maxillofac Surg*. 2021 Feb;50(2):198-204. doi: 10.1016/j.ijom.2020.05.006. Epub 2020 Jun 27.
7. Aydin U, Gormez O, Yildirim D. Cone-beam computed tomography imaging of dentoalveolar and mandibular fractures. *Oral Radiol*. 2020 Jul;36(3):217-224. doi: 10.1007/s11282-019-00390-5. Epub 2019 May 17.
8. Abdelkarim A. Cone-Beam Computed Tomography in Orthodontics. *Dent J (Basel)*. 2019 Sep 2;7(3):89. doi: 10.3390/dj7030089.
9. Patel S, Brown J, Pimentel T, Kelly RD, Abella F, Durack C. Cone beam computed tomography in Endodontics – a review of the literature. *Int Endod J*. 2019 Aug;52(8):1138-1152. doi: 10.1111/iej.13115. Epub 2019 Apr 9.
10. Omami G, Yafi FA. Should Cone Beam Computed Tomography Be Routinely Obtained in Implant Planning? *Dent Clin North Am*. 2019 Jul;63(3):363-379. doi: 10.1016/j.cden.2019.02.005. Epub 2019 Apr 12.
11. Eshraghi VT, Malloy KA, Tahmasbi M. Role of Cone-Beam Computed Tomography in the Management of Periodontal Disease. *Dent J (Basel)*. 2019 Jun 1;7(2):57. doi: 10.3390/dj7020057.

SUPPLEMENTAL MATERIALS (Cont'd)

S1147 Optimizing Use of Cone Beam Radiology

12. Christensen GJ. Ask Dr. Christensen: Can you detect initial dental caries? Dental Economics. 2018 Nov;108(11):75-8.
13. Christensen GJ. Ask Dr. Christensen: Is cone beam really necessary? Dental Economics. 2018 May;108(5):88-90.
14. Christensen GJ. Ask Dr. Christensen: Inadequacy of dental radiographs. Dental Economics. 2017 Nov;107(11):74-5.
15. Christensen GJ. Ask Dr. Christensen: Which dental technologies should I buy? Dental Economics. 2016 Jun;106(6):84-8.

POST-TEST

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1. Most current cone beam devices also make panoramic radiographs.
 - a. True
 - b. False

2. Cone beam devices require about the same radiation quantity as one full-mouth series.
 - a. True
 - b. False

3. Cone beam radiographs are now the standard of care for:
 - a. molar endo.
 - b. implants.
 - c. impactions.
 - d. all of the above.

4. Cone beam devices require significant maintenance.
 - a. True
 - b. False

5. If you use cone beam images for a diagnosis, you are responsible for identifying any abnormal or pathologic conditions present.
 - a. True
 - b. False

6. Currently, cone beam images should be used for diagnosing all new patients.
 - a. True
 - b. False

7. Some cone beam companies provide patient education videos as a part of their software.
 - a. True
 - b. False

POST-TEST (CONT'D)

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- 8. One of the main advantages of a cone beam is the ability of the device to provide images 90 degrees from the facial plane of a tooth (3D).
 - a. True
 - b. False

- 9. Cone beam, used properly and conservatively, can provide significant revenue for a general practice.
 - a. True
 - b. False

- 10. Cone beam radiology cannot identify initial dental caries adequately.
 - a. True
 - b. False

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