

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

V3531

Successful Isolation of Operating Fields

Gordon J. Christensen, DDS, MSD, PhD

Materials Included

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Gordon J. Christensen
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Sources of Products Discussed in

V3531 Successful Isolation of Operating Fields

Presented by Gordon J. Christensen, DDS, MSD, PhD

1. **AccuFilm II**
Parkell, Inc.
300 Executive Drive
Edgewood, NY 11717
(800)243-7446
(631)249-1134
www.parkell.com
2. **Advantage Arrest**
Elevate Oral Care
346 Pike Road
Suite 5
West Palm Beach, FL 33411
(877)866-9113
www.elevateoralcare.com
3. **Dental Dam**
Cranberry USA
828 San Pablo Avenue
Pinole, CA 94564
(707)553-6190
www.cranberryusa.com
4. **Dental Flex Arm**
Practicon Inc.
1112 Sugg Parkway
Greenville, NC 27834
(800)959-9505
(252)752-5183
www.practicon.com
5. **Dentapops**
Primotec, Inc.
5616 Campanile Way
San Diego, CA 92115
(916)849-2637
www.dentapops.com
6. **DryDent**
Directa Inc.
64 Barnabas Road
Unit 3
Newtown, CT 06470
(203)491-2273
www.directadental.com
7. **DryShield**
DryShield LLC
11230 Grace Avenue
Suite B
Fountain Valley, CA 92708
(888)379-0300
www.dryshield.com
8. **DryTips**
Microbrush International
1376 Cheyenne Avenue
Grafton, WI 53024
(866)866-8698
www.microbrush.com
9. **E-Prop Mouth Props**
Practicon Inc.
1112 Sugg Parkway
Greenville, NC 27834
(800)959-9505
(252)752-5183
www.practicon.com
10. **Filtek Supreme Ultra Flowable Restorative**
3M Oral Care
2510 Conway Avenue
St. Paul, MN 55144-1000
(800)634-2249
(651)733-1110
www.3m.com
11. **Foundation**
J. Morita USA, Inc.
9 Mason
Irvine, CA 92618
(800)831-3222
(949)581-8811
www.morita.com/usa
12. **GLUMA Desensitizer**
Kulzer North America
4315 S. Lafayette Blvd.
South Bend, IN 46614
(800)431-1785
www.kulzerus.com
13. **Hygienic Dental Dam**
Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
www.coltene.com
14. **Hygienic Flexi-Dam**
Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
www.coltene.com
15. **Hygienic Ora-Shield Dental Dam Napkins**
Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
www.coltene.com
16. **Hygienic Wedjet**
Coltene/Whaledent Inc.
235 Ascot Parkway
Cuyahoga Falls, OH 44223
(330)916-8800
www.coltene.com
17. **Hygoformic by ORSING**
Henry Schein Dental
135 Duryea Road
Melville, NY 11747
(800)472-4346
(631)843-5500
www.henryschein.com
18. **Isolation 360 by Zirc**
American Dental Accessories
7310 Oxford Street
Minneapolis, MN 55426-4513
(800)331-7993
(888)729-1016
www.amerdental.com

19. **Isolite 3**
Zyris, Inc.
6868A Cortona Drive
Santa Barbara, CA 93117
(800)560-6066
(805)560-9888
www.zyris.com
20. **Ivory Rubber Dam Clamps (W4, W5, W7, 0, 00, 212)**
Kulzer North America
4315 S. Lafayette Blvd.
South Bend, IN 46614
(800)431-1785
www.kulzerus.com
21. **Lingua-Fix**
Zirc Company
3918 Highway 55 SE
Buffalo, MN 55313
(800)328-3899
(763)682-6636
www.zirc.com
22. **Madame Butterfly**
Almore International
441 19th Street SE
Hickory, NC 28602
(800)547-1511
www.almore.com
23. **MicroPrime**
Zest Dental Solutions
2875 Loker Avenue East
Carlsbad, CA 92010
(800)262-2310
(442)244-4835
www.zestdent.com
24. **MiniDam**
DMG America
65 Challenger Road
Suite 340
Ridgefield Park, NJ 07660
(800)662-6383
www.dmg-america.com
25. **Mirro-Vac 2 Saliva Ejector Mirrors**
Practicon Inc.
1112 Sugg Parkway
Greenville, NC 27834
(800)959-9505
(252)752-5183
www.practicon.com
26. **Mr. Thirsty One-Step**
Zirc Company
3918 Highway 55 SE
Buffalo, MN 55313
(800)328-3899
(763)682-6636
www.zirc.com
27. **NeoDryx**
Microcopy
P.O. Box 2017
Kennesaw, GA 30156-9017
(800)235-1863
www.microcopydental.com
28. **OptiDam**
Kerr Corporation
200 S. Kraemer Blvd.
Building E2
Brea, CA 92821
(800)537-7123
www.kerrdental.com
29. **OptraDam**
Ivoclar Vivadent Inc.
175 Pineview Drive
Amherst, NY 14228
(800)533-6825
(716)691-0010
www.ivoclarvivadent.com
30. **OptraGate**
Ivoclar Vivadent Inc.
175 Pineview Drive
Amherst, NY 14228
(800)533-6825
(716)691-0010
www.ivoclarvivadent.com
31. **Pink Petal**
Zirc Company
3918 Highway 55 SE
Buffalo, MN 55313
(800)328-3899
(763)682-6636
www.zirc.com
32. **Suction Devices**
Practicon Inc.
1112 Sugg Parkway
Greenville, NC 27834
(800)959-9505
(252)752-5183
www.practicon.com
33. **TrollFoil**
TrollDental USA
64 Barnabas Road
Unit 3
Newtown, CT 06740
(800)537-8765
www.trolldentalusa.com
34. **Umbrella Cheek Retractor**
Ultradent Products, Inc.
505 West Ultradent Drive
South Jordan, UT 84095
(888)230-1420
(801)572-4200
www.ultradent.com
35. **VacuLUX**
Ascentcare Dental Products, Inc.
2359 Holton Road
Muskegon, MI 49445
(616)600-4505
www.ascentcaredental.com
36. **Young Rubber Dam Frame**
Young Innovations, Inc.
2260 Wendt Street
Algonquin, IL 60102
(847)458-5400
www.youngdental.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
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PROGRAM

V3531 Successful Isolation of Operating Fields

CLINICIAN RESPONSIBLE:

Gordon J. Christensen, DDS, MSD, PhD
CEO, Practical Clinical Courses
CEO, CR Foundation
Practicing Prosthodontist, Provo, Utah

GOALS & OBJECTIVES

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

1. State five reasons why and when a non-contaminated operating field is necessary.
2. Explain the responsibility of dental assistants for establishing and maintaining a non-contaminated operating field.
3. Describe methods to produce non-contaminated operating fields.
4. Describe absorption products.
5. Describe retraction and/or isolation products.
6. Describe suction products.
7. Describe suction/isolation products.
8. List five different clinical procedures for which a non-contaminated operating field is necessary.
9. Discuss whether or not a rubber dam is necessary for ALL operative dentistry.
10. Discuss maintaining an optimum operating field for crown cementation.
11. Discuss ways to create an optimum field when placing sealants.
12. Discuss whether or not a rubber dam should be mandatory when doing endodontics.
13. Discuss maintaining an optimum field when placing implants.
14. Discuss the necessity for a dry field when doing occlusal equilibration.
15. Describe the Isolite 3 device.
16. Compare the Isolite 3 device with the Mr. Thirsty device.
17. List several reasons why rubber dam is still the "gold standard" for producing a dry field.
18. Discuss the importance of proper use of high velocity evacuation (HVE).
19. List an adjunctive HVE holding device that is especially useful when working alone or for dental hygienists.
20. Make decisions on which concepts you want to incorporate into your practice.

OVERVIEW

V3531 Successful Isolation of Operating Fields

This topic is often neglected, since dentists and staff think they are using adequate procedures for operating field isolation. It is likely they are not doing so because there are innumerable relatively new devices and concepts. Among the topics included in this video are:

- Many reasons why and when a non-contaminated operating field is necessary
- Responsibilities of dental assistants for establishing and maintaining a non-contaminated operating field
- Methods to produce non-contaminated operating fields
- Absorption products
- Retraction and/or isolation products
- Suction products
- Suction/isolation products
- Numerous clinical procedures for which a non-contaminated operating field is necessary
- Whether or not a rubber dam is necessary for ALL operative dentistry
- Maintaining an optimum operating field for crown cementation
- Ways to create an optimum field when placing sealants
- Whether or not a rubber dam should be mandatory when doing endodontics
- Maintaining an optimum field when placing implants
- The necessity for a dry field when doing occlusal equilibration
- The Isolite 3 device
- A comparison of the Isolite 3 device with the Mr. Thirsty device
- Several reasons why rubber dam is still the “gold standard” for producing a dry field
- The importance of proper use of high velocity evacuation (HVE)
- An adjunctive HVE holding device that is especially useful when working alone or for dental hygienists
- Making decisions on which concepts you want to incorporate into your practice

SUPPLEMENTAL MATERIALS

V3531 Successful Isolation of Operating Fields

1. Christensen GJ. Ask Dr. Christensen: Why are sealants failing? Dental Economics. 2021 Jun;111(6):64-6.
2. Miao C, Yang X, Wong MC, Zou J, Zhou X, Li C, and Wang Y. Rubber dam isolation for restorative treatment in dental patients. Cochrane Database Syst Rev. 2021 May 17;5(5):CD009858.
3. Christensen GJ. Ask Dr. Christensen: What cement type is best in 2021? Dental Economics. 2021 May;111(5):54-7.
4. Christensen GJ. Ask Dr. Christensen: The satisfying and productive preventive practice. Dental Economics. 2021 Mar;111(3):60-2.
5. Christensen GJ. Ask Dr. Christensen: The best pediatric dental restorations. Dental Economics. 2021 Feb;111(2):42, 44.
6. Christensen GJ. Ask Dr. Christensen: Are there proven preventive restorative materials? Dental Economics. 2021 Jan;111(1):52-6.
7. Christensen GJ. Ask Dr. Christensen: Making composites better and longer lasting. Dental Economics. 2020 Nov;110(11):47-9.
8. Christensen GJ. Ask Dr. Christensen: Preventing recurrent caries on restorations. Dental Economics. 2020 Apr;110(4):63-5.
9. Ravenel TD, Kessler R, Comisi JC, Kelly A, Renne WG, and Teich ST. Evaluation of the spatter-reduction effectiveness and aerosol containment of eight dry-field isolation techniques. Quintessence Int. 2020;51(8):660-670.
10. Kameyama A, Asami M, Noro A, Abo H, Hirai Y, and Tsunoda M. The effects of three dry-field techniques on intraoral temperature and relative humidity. J Am Dent Assoc. 2011 Mar;142(3):274-80.
11. Christensen GJ. "Rubber Dam – Still the Best Dry-Field Technique" Practical Clinical Courses – Video No. V3522. April 2007.

POST-TEST

V3531 Successful Isolation of Operating Fields

1. When is a non-contaminated operating field necessary?
 - a. restorative treatment
 - b. surgical treatment
 - c. preventive procedures
 - d. all the above

2. Which person is *primarily* responsible for making and maintaining a non-contaminated operating field?
 - a. dentist
 - b. dental assistant
 - c. dental hygienist
 - d. all the above

3. Absorptive products are:
 - a. the best operating field concept.
 - b. minimally effective, but necessary.
 - c. always containing cellulose.
 - d. none of the above.

4. Rubber dam (as shown in this video):
 - a. is less effective than other concepts.
 - b. is long out of date and has been replaced.
 - c. retracts lips, cheeks, and tongue better than other concepts.
 - d. cannot be completely replaced by other devices.

5. All suction devices are:
 - a. connected to HVE.
 - b. connected to saliva ejectors.
 - c. disposable.
 - d. none of the above.

6. Sealants:
 - a. are highly successful clinically.
 - b. cannot be improved in clinical success.
 - c. often fail in a few years because of plaque-contaminated operating fields.
 - d. should always use materials designated as sealants.

7. Restoration of anterior teeth:
 - a. always requires use of a rubber dam.
 - b. can be isolated relatively easily by using an OptraGate.
 - c. does not require a non-contaminated operating field.
 - d. can easily be isolated using an Isolite 3.

POST-TEST (CONT'D)

V3531 Successful Isolation of Operating Fields

- 8. Implant osteotomies and implant placement require:
 - a. moisture when accomplished.
 - b. water on doing the osteotomy.
 - c. blood presence when placing the implant.
 - d. all the above.

- 9. *Optimum* marking of teeth for occlusal equilibration:
 - a. does not require a dry field.
 - b. requires a dry field.
 - c. can be done easily by using wax to show high spots.
 - d. is usually done correctly.

- 10. Rubber dam:
 - a. retracts cheeks, tongue, and lips.
 - b. retracts gingival tissues.
 - c. is still the "gold standard" for *some* procedures.
 - d. all the above.

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