

**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:**

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

**Gordon J. Christensen**  
**PRACTICAL CLINICAL COURSES**

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Gordon J. Christensen  
**PRACTICAL CLINICAL COURSES**  
*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](http://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](http://www.elevateoralcare.com)
3. **Dental Dam**  
Cranberry USA  
828 San Pablo Avenue  
Pinole, CA 94564  
(707)553-6190  
[www.cranberryusa.com](http://www.cranberryusa.com)
4. **Dental Flex Arm**  
Practicon Inc.  
1112 Sugg Parkway  
Greenville, NC 27834  
(800)959-9505  
(252)752-5183  
[www.practicon.com](http://www.practicon.com)
5. **Dentapops**  
Primotec, Inc.  
5616 Campanile Way  
San Diego, CA 92115  
(916)849-2637  
[www.dentapops.com](http://www.dentapops.com)
6. **DryDent**  
Directa Inc.  
64 Barnabas Road  
Unit 3  
Newtown, CT 06470  
(203)491-2273  
[www.directadental.com](http://www.directadental.com)
7. **DryShield**  
DryShield LLC  
11230 Grace Avenue  
Suite B  
Fountain Valley, CA 92708  
(888)379-0300  
[www.dryshield.com](http://www.dryshield.com)
8. **DryTips**  
Microbrush International  
1376 Cheyenne Avenue  
Grafton, WI 53024  
(866)866-8698  
[www.microbrush.com](http://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](http://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](http://www.3m.com)
11. **Foundation**  
J. Morita USA, Inc.  
9 Mason  
Irvine, CA 92618  
(800)831-3222  
(949)581-8811  
[www.morita.com/usa](http://www.morita.com/usa)
12. **GLUMA Desensitizer**  
Kulzer North America  
4315 S. Lafayette Blvd.  
South Bend, IN 46614  
(800)431-1785  
[www.kulzerus.com](http://www.kulzerus.com)
13. **Hygenic Dental Dam**  
Coltene/Whaledent Inc.  
235 Ascot Parkway  
Cuyahoga Falls, OH 44223  
(330)916-8800  
[www.coltene.com](http://www.coltene.com)
14. **Hygenic Flexi-Dam**  
Coltene/Whaledent Inc.  
235 Ascot Parkway  
Cuyahoga Falls, OH 44223  
(330)916-8800  
[www.coltene.com](http://www.coltene.com)
15. **Hygenic Ora-Shield Dental Dam Napkins**  
Coltene/Whaledent Inc.  
235 Ascot Parkway  
Cuyahoga Falls, OH 44223  
(330)916-8800  
[www.coltene.com](http://www.coltene.com)

16. **Hygenic Wedjet**  
Coltene/Whaledent Inc.  
235 Ascot Parkway  
Cuyahoga Falls, OH 44223  
(330)916-8800  
[www.coltene.com](http://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](http://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](http://www.amerdental.com)
19. **Isolite 3**  
Zyris, Inc.  
6868A Cortona Drive  
Santa Barbara, CA 93117  
(800)560-6066  
(805)560-9888  
[www.zyris.com](http://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](http://www.kulzerus.com)
21. **Lingua-Fix**  
Zirc Company  
3918 Highway 55 SE  
Buffalo, MN 55313  
(800)328-3899  
(763)682-6636  
[www.zirc.com](http://www.zirc.com)
22. **Madame Butterfly**  
Almore International  
441 19<sup>th</sup> Street SE  
Hickory, NC 28602  
(800)547-1511  
[www.almore.com](http://www.almore.com)
23. **MicroPrime**  
Zest Dental Solutions  
2875 Loker Avenue East  
Carlsbad, CA 92010  
(800)262-2310  
(442)244-4835  
[www.zestdent.com](http://www.zestdent.com)
24. **MiniDam**  
DMG America  
65 Challenger Road  
Suite 340  
Ridgefield Park, NJ 07660  
(800)662-6383  
[www.dmg-america.com](http://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](http://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](http://www.zirc.com)
27. **NeoDrys**  
Microcopy  
P.O. Box 2017  
Kennesaw, GA 30156-9017  
(800)235-1863  
[www.microcopydental.com](http://www.microcopydental.com)
28. **OptiDam**  
Kerr Corporation  
200 S. Kraemer Blvd.  
Building E2  
Brea, CA 92821  
(800)537-7123  
[www.kerrdental.com](http://www.kerrdental.com)
29. **OptraDam**  
Ivoclar Vivadent Inc.  
175 Pineview Drive  
Amherst, NY 14228  
(800)533-6825  
(716)691-0010  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)
30. **OptraGate**  
Ivoclar Vivadent Inc.  
175 Pineview Drive  
Amherst, NY 14228  
(800)533-6825  
(716)691-0010  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)

31. **Pink Petal**  
Zirc Company  
3918 Highway 55 SE  
Buffalo, MN 55313  
(800)328-3899  
(763)682-6636  
[www.zirc.com](http://www.zirc.com)
32. **Suction Devices**  
Practicon Inc.  
1112 Sugg Parkway  
Greenville, NC 27834  
(800)959-9505  
(252)752-5183  
[www.practicon.com](http://www.practicon.com)
33. **TrollFoil**  
TrollDental USA  
64 Barnabas Road  
Unit 3  
Newtown, CT 06740  
(800)537-8765  
[www.trolldentalusa.com](http://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](http://www.ultradent.com)
35. **VacuLUX**  
Ascentcare Dental  
Products, Inc.  
2359 Holton Road  
Muskegon, MI 49445  
(616)600-4505  
[www.ascentcaredental.com](http://www.ascentcaredental.com)
36. **Young Rubber Dam Frame**  
Young Innovations, Inc.  
2260 Wendt Street  
Algonquin, IL 60102  
(847)458-5400  
[www.youngdental.com](http://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**

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. 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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