



DENTALPRODUTSREPORT

DISCOVERY. ADOPTION. SUCCESS

dental**products**report.com

DENTSPLY Professional

DESIGNED WITH YOU IN MIND

Ergonomically designed for the clinician's grip.

MORE ON PAGE 6



DenMat

IMMEDIATE HYDROPHILICITY

More detailed, more accurate impressions. Find out how. MORE ON PAGE 6



SDI

ILLUMINATE ABNORMALITIES

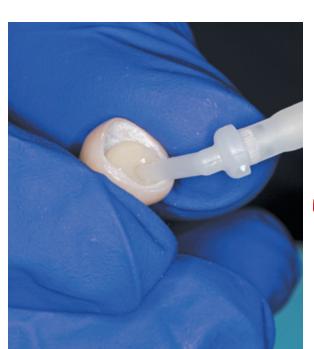
Benefits of the diagnostic tip take this curing light to the next level.



web exclusive

MUST-WATCH VIDEOS Patient advice, business tips and clinical step-

Patient advice, business tips and clinical stepby-steps—find it at *dentalproductsreport.com*.



DENTAL IMPLANTS

MORE THAN A NICE SMILE?

Be the doctor who delivers health and happiness to a patient base with evolving needs and expectations.

FROM YOUR PEERS

Reviews you can use

Doctor feedback on products from DEXIS and DenMat.

TECHNIQUE

How to

achieve a simpler bond

Case study on the benefits of BISCO's eCement.

Grand SO and Futurabond U

The Ultimate Combination for Restorative Success!



... WITH OUR MOST TOOTH-LIKE
AND BEST HANDLING COMPOSITE EVER!



Description

GrandioSO is a light-curing, radiopaque nano-hybrid composite. It is indicated for Class I-V restorations, cosmetic restorations, splinting of loose teeth, repairing veneers, restoration of primary teeth, core build-ups, and composite inlays.

GrandioSO is available in shades A1, A2, A3, VC A3.25, A3.5, A4, VC A5, B1, B2, B3, C2, D3 OA1, OA2, OA3.5, and Bleach (BL) in syringes and single dose capsules. The composite is compatible with all light-cured bonding agents. Curing times vary with shade selection. The kit evaluated contains 80, 0.25 g caps, 16 each in shades A1, A2, A3, A3.5 and B1; shade guide; product literature; manufacturer instructions; and MSDS. GrandioSO was evaluated by 31 consultants in 1054 uses. It received a 96% clinical rating.

Product Features

GrandioSO composite is easy to dispense and place. It has a viscosity that is heavy enough to be packable and is suitable for both anterior and posterior restorations. Shade matching and final esthetics are very good. The opacity of the cured composite is beneficial for masking stained dentin, yet blends well with the surrounding enamel. Shade A3.25 was useful for the cases in which a patient's shade was between A3 and A3.5. The quality of the final polish was rated excellent. Fifty-five percent of consultants reported that **GrandioSO** was better than their current universal resin composite and 35% reported that it was equivalent. Eighty-one percent would switch to **GrandioSO** and 90% would recommend it.



Futurabond U

Dual-Cure Universal Adhesive

The ONLY bond for ALL your adhesive dentistry, without the need of any extra primers or activators.

- ONE adhesive for ALL your adhesive dentistry
 - Self-etch, selective-etch or total-etch
 - For all direct or indirect materials / no extra activator
 - Bonds to all light-, dual- and self-cure resin materials
 - Bonds to metal, zirconia, aluminum oxide, silicate ceramic without any extra primers
- VOCO's new patented SingleDose System eliminates the solvent evaporation problem that is a known problem with bottle systems – this ensures reliable high bond strength with each application.
- Fast and easy one-coat application (apply, dry and cure in 35 sec.)
- Over 30MPa of adhesion to dentin and enamel with LC composites while reaching high total-etch adhesion levels with DC and SC composites.

Interested? Circle Product Card No. 1

EXCLUSIVE DPR READER OFFER: TRY TWO GREAT PRODUCTS FOR ONLY \$55

[ONLY AVAILABLE WITH INSERTED BRC CARD]







DENTALPRODUTSREPORT

DISCOVERY. ADOPTION. SUCCESS.

dentalproductsreport.com

advertisement



Grand SO and Futurabond U

The Ultimate Combination for Restorative Success!

TRY TWO GREAT PRODUCTS FOR ONLY \$55 EXCLUSIVELY FOR DPR READERS WITH INSERTED CARD ONLY.

CALL 1-888-658-2584

*award logos refer to GrandiSO only

Voco

THE DENTALISTS







Grow your practice with Realine.

Realine treatment is a straightforward, five-step virtually invisible aligner system— designed specifically to fix the minor orthodontic and cosmetic issues that you see every day.





Realine treatment is ideal for patients with minor crowding issues or very small gaps between their anterior teeth.

Expand your treatment options

It's an innovative, cost-effective way to address your patients minor orthodontic and cosmetic concerns.

Flexibility in billing

With a lab fee of \$575, you can bill in a way that works for you—whether that's through insurance or fee for service.

More predictable results

Realine is engineered to deliver more predictable results at a price point your patients will appreciate.

From the creators of Invisalign®

It's based on the same technology used to treat millions of patients from Align Technology Inc. the creators of Invisalign.

Realine Starter Kit

(998-9996).....Ea. \$574.99

Contains: Registration and 1 prepaid Realine Treatment





To Order: 1-800-372-4346 8am-9pm (ET)

Fax: 1-800-732-7023 24 hrs www.henryscheindental.com



THE #1-SELLING ALL-TISSUE DENTAL LASER IN THE WORLD

VATERLASE

NOW CELEBRATING 15 YEARS OF CLINICAL EXCELLENCE AND INNOVATION



FOLLOW US!







MORE THAN **23,000** BIOLASE CUSTOMERS WORLDWIDE



"I believe the best-kept secret of laser-assisted periodontics is the Er,Cr:YSGG laser wavelength used in tandem with the diode wavelength. I am experiencing great results with minimally invasive surgery."

Dr. Samuel LowWaterLase Periodontist, Gainesville, Florida



"The WaterLase has made going to the office more fun – for our patients, and our entire dental team!"

Dr. Fred Margolis

WaterLase Pediatric Dentist, Buffalo Grove, Illinois



"The WaterLase is our work horse. I cannot overstate the advantage of its use in preparations on primary teeth without local anesthesia. This feature alone transformed my enthusiasm for pediatric dentistry."

Dr. Betty Barr

WaterLase Pediatric Dentist, Westminster, Colorado



"WaterLase Radial Firing Tips have revolutionized our practice of endodontics. For the first time we are within reach of sterilizing an infected root canal system — unheard of in the specialty of endodontics!"

Dr. Justin Kolnick

WaterLase Endodontist, White Plains, New York



"WaterLase iPlus not only enhances results in the hands of a periodontist for regenerative procedures, it is also an alternative treatment tool for general dentists treating mild to moderate periodontal cases."

Dr. Mark Schlesinger

WaterLase Periodontist, New York City

GLOBAL RECOGNITION FOR WATERLASE IPLUS













Interested? Circle Product Card No. 3

Cover Products and other EDITOR'S CHOICE products throughout this issue are chosen based on innovation or their perceived impact on improving patient care and practice efficiency.







DenMat

Impression material

SplashMax VPS impression material is said to provide immediate hydrophilicity, maximum tear strength, dimensional accuracy, and enhanced color contrast.

Using SplashMax is said to achieve a lower contact angle in seconds and results in higher tear strength, providing highly detailed and consistently accurate impressions.

SCAN:



DENTSPLY Professional

Ultrasonic inserts

Coming to market soon,

Cavitron® FITGRIP™ ultrasonic inserts are said to be ergonomically designed with a clinician's fingers in mind, allowing the hygienist's grip to conform to its one-piece design. Also, a large diameter silicone grip reduces muscle load and pinch force. The FITGRIP will be available in nine 30K Cavitron insert tip shapes, including Focus Spray®, slimLINE®, PowerLINE®, and THINsert®.

*GNYDM Booth # 2600, 2800

800-800-2888 professional.dentsply.com CIRCLE: RS NO. 5



SCAN:



* Head to **page 26** for DPR's full coverage of the must-see dental products at this year's GNYDM event.



Carestream Dental

PM software

cs winoms cloud stores applications, patient information, and data in one place, providing 24/7 access to needed files from any device with an Internet connection. Plus, sensitive files are backed up and maintained by Carestream Dental with HIPAA-compliant storage. The software is automatically updated, plus it lets oral surgeons expand their practice by adding new locations and users without having to pay for additional IT infrastructure.

*GNYDM Booth # 4416, 5628

800-944-6365 carestreamdental.com CIRCLE: RS NO. 6

SCAN



SDI North America

Curing light/ diagnostic tool

The Radii Plus Pro's LED curing light offers peak output of 2100mW/cm² with a rechargeable battery that provides 1200 10-second cures. The device's diagnostic tip lights hard-to-see areas for identifying abnormalities, such as cracks in cusp and teeth, subgingival fractures, and interproximal caries. Both components twist 360°, while the LED light at the end of both tips emits energy only in the areas needed to ensure low heat emission throughout.

*GNYDM Booth # 4009



SCAN:



MOST PRODUCTS. BEST SEARCH.

Find thousands of products at **products.dentalproductsreport.com**

Our advertising policy

DPR makes every effort commensurate with professional editorial and advertising standards to report manufacturer's product news accurately, but cannot assume responsibility for the validity of product claims. It is necessary for the editorial staff to remove itself from policing the content or images used in various ads or marketing campaigns. Any reader with a complaint should contact the manufacturer directly.

Our editorial process

The dental profession and the publications that cover it have no shortage of dental professionals ready to share their expertise. DPR sets itself apart with an editorial team comprised of journalists, not dentists. Each month, we reach out to a wide variety of voices to help tell the story of innovation in the dental profession. We don't assume we know all the answers; we are, instead, committed to asking the right questions and delivering unbiased, quality content. None of the articles you read are "paid for," but as a product-centric magazine, working closely with our manufacturing partners is an important part of the process.



What if your Low Dose X-ray gave you High Quality Images?

The New Digital Environment!

Real Low Dose X-ray

comes with the Perfect Images



DENTALPRODUCTSREPORT



PRODUCT WATCH

Product launches and updates from throughout the industry

SPECIAL REPORT

40 3M ESPE's new Imprint 4 VPS

A close look at this impression material that cuts setting time in half, while still offering adequate working times and accurate impressions. by Renee Knight

I MADE THAT

46 Komet USA's F360™ Endodontic System

An interview with COO Warren White about the development of the Komet® F360 endodontic files.

48 3 Shape's TRIOS® Color Digital Impression Solution

An Interview with Tais Clausen, cofounder and CTO of 3Shape.

50 Pentron Strada

An interview with Aimee Chemente, Associate Product Manager for Pentron.

52 CAO Group's Precise® SHP

An interview with Densen Cao, President and CEO of CAO Group Inc., about the development process behind the Precise SHP Diode Laser and iPod touch.

BENCHMARK REVIEWS

54 The Catapult Group reviews DENTSPLY Caulk's

TPH Spectra

DOUBLE TAKE

- 56 DenMat's VELscope VX
- 58 DEXIS' Digital Imaging System



CLINICAL 360°

Practical clinical advice, research and techniques

COVER STORY: IMPLANTS

64 Implants and the role we all play for our patients' health and happiness Dr. Kenneth Judy explains how education

and a team approach are critical.

TECHNIQUES

78 How to bond with optimal results Two clinical examples to illustrate how Futurabond U can achieve outstanding results.

80 How to achieve accurate impressions Simplifying the impression process for IPS e.max posterior restorations with Ivoclar Vivadent's Virtual XD.

82 How to achieve a simpler bond

BISCO's new eCEMENT™ can help you save time while maintaining strength and esthetics.

84 How to place and finish durable restorations

How 3M ESPE's Filtek Supreme Ultra universal restorative helps make the restorative process easy.

88 Create highly esthetic monolithic zirconia crowns

3M ESPE's Lava Plus High Translucency Zirconia offers both outstanding esthetics and strength.

360 ORTHODONTICS

86 3D cone beam technology that puts you in control

Imaging Sciences International's i-CAT® FLX offers a fast workflow and high-quality scans.

TECH BRIEF

90 Midwest Automate System DENTSPLY Midwest



PRODUCTS IN PRACTICE

Product impact on the practice's bottom line

PROTOCOL

94 Put control in your patients' hands
With Opalescence Go, you can get the quality
of in-office whitening treatments with the
convenience of an at-home product.
by Shannon Pace Brinker, CDA, CDD

MARKETING

100 How to take accurate photographs and impressions for Invisalign treatment | Technique tips for dental assistants during Invisalign treatment planning. by Shannon Pace Brinker, CDA, CDD

5 REASONS TO BUY

- 104 Safe'n'Sure OPT from Flow Dental
- 106 Eaglesoft 17 from Patterson Dental
- 108 Cavitron FITGR from DENTSPLY Professional
- 110 PreviDent Varnish from Colgate Oral Pharmaceuticals





ALSO IN THIS ISSUE

- 12 Clicks & Picks What real dentists are searching for and savoring at dentalproductsreport.com.
- 14 From the editor
- 18 The List Top 5 reasons you should get social.
- PATIENT PERSPECTIVE 124 One patient's take on CariFree products from Oral BioTech.

OUR MISSION

Dental Products Report provides dentists with comprehensive, accurate and unbiased information across the spectrum of specialties. In consultation with forwardlooking clinicians and manufacturers, our staff supports dentists as they apply new products and technologies for excellence in patient care and practice development.





Start spreading the news

Are you attending the GNYDM this year? We've put together a list of 33 must-see new products you'll want to check out during the show, set for Dec. 1-4. We tell you where to find them at the show and why they're worth checking out.

Dental Products Report (Print ISSN# 0011-8737, Digital ISSN# 2150-640X), is published monthly by Advanstar Communications, Inc., 131 West First St., Duluth, MN 55802-2065. O subscription rates: \$150 in the United States & Possessions; \$170 in Canada and Mexico; all other countries \$275. Single copies (prepaid only) \$24 in the United States; \$35 in Canada and all other countries \$35. Include \$6 per copy for U.S. postage and handling. Periodicals postage paid at Duluth, MN 55806 and additional mailing offices. Postmaster, please send address to: Dental Products Report, PO Box6076, Duluth, MN 56806-6076. Canada and ST number R-124213701. PUBLIC CATIONS MAIL AGREEMENT NO. 40612608, Return Undeliverable C. Addresses to: IMEX Global Solutions, P. O. Box 25542, London, ON N6C 6B2, CANADA. Printed in the U.S. A. Subscription inquiries/address changes: toll-free 888-527-7008, or dial direct 218-74 (2013 Advanstar Communications Inc. All rights reserved. No part of this publication may be reproduced of transmitted in any form or by any means, electronic or mechanical incl. photocopy, recording, or information storage and retrieval without permission in writing from the publisher. Authorization to photocopy them for internal/educational or personal use of specific clients is granted by Advanstar Communications Inc. for libraries and other users registered with the Copyright Clearance Center, 222 Rosewood Dr. E. MA 01923, 978-750-8400 fax 978-646-8700 or visit http://www.copyright.com.online. For uses beyond those listed above, please direct your written request to Permission Dept. fax 440-75 or email: meannon@advanstar.com.

Advanstar Communications Inc. provides certain customer contact data (such as customers' names, addresses, phone numbers, and e-mail addresses) to third parties who wish to promote relevant products, services, and other opportunities that may be of interest to you. If you do not want Advanstar Communications Inc. to make your contact information available to third parties for marketing purposes, simply call toll-free 866-529-2922 between the hours of 7:30 a.m. and 5 p.m. CST and a customer service representative will assist you in removing your name from Advanstar ethe U.S., please phone 218-740-6477.

Dental Products Report does not verify any claims or other information appearing in any of the advertisements contained in the publication, and cannot take responsibility for any

Dental Products Report cannot be held responsible for the safekeeping or return of unsolicited articles, manuscripts, photographs,

To subscribe, call toll-free 888-527-7008. Outside the U.S. call 218-740-6477.









Turn average check-ups into stellar ones

G·U·M[®] **Soft-Picks**[®] effectively remove plaque and massage gums, providing an easy-to-use option that can lead to increased compliance and better oral health. Patients completing their homework... now that's worth a gold star!





Healthy Gums (Non-compliant flossers)



or Crowns







ORDER NOW!

(actual size)

Original

Call Sunstar at 1-800-528-8537 OR Visit GUMbrand.com for more information

25%

Wider

© 2013 Sunstar Americas, Inc. P13275

Count on Keller

Se. Max lithium disilicate

- · Cement or Bond
- · Pressed Strength
- Outstanding Esthetics

BruxZir[®] Solid Zirconia

- · CAD/CAM Consistency
- Ideal for Clenchers & Grinders
- · Conservative Prep





Call Today For Your Case Pick-Up! **800-325-3056**



Keller Laboratories, Inc. 160 Larkin Williams Industrial Court Fenton, MO 63026 www.kellerlab.com



FREE SHIPPING!
when you bundle 2 or more
crowns or 2 or more cases in 1 box

*Offer only valid in the contiguous United States. Additional charges will apply for overnight services.

dentalproductsreport

MOST PRODUCTS. BEST SEARCH.

Find thousands of products and all of the following web-exclusive content on our website.





Download this free e-book for a must-read guide to all things cosmetic dentistry, from whitening to veneers.

Are you a Mac dentist?

If not, check out our free E-book for 8 reasons going Mac makes sense.

Start your week off right

Every Monday, we send out video tips to help get you and your team talking, with topics ranging from the oral systemic link to Obamacare. Not seeing it in your inbox? Be sure to sign up for our Morning Huddle e-newsletter!

Clicks & Picks

What dentists were searching and savoring in October @ DENTALPRODUCTSREPORT.COM

6 MOST-READ ARTICLES ONLINE

- 01 How to deal with a difficult patient [Video] DPR Editorial Staff
- 02 Obamacare: The effect of the Affordable Care Act on dental practices [VIDEO] by Michael Quirk
- 03 How to make your hygiene department profitable [VIDEO] by Jameson Management
- 04 Obamacare: 5 things every dentist needs to know about the Affordable Care Act by Michael Quirk
- 05 Free E-book: What you need to know about oral cancer detection **DPR Editorial Staff**
- 06 4 ways to help your dental colleagues battle depression and mental illness by Kevin Henry

E-NEWSLETTERS



Make your inbox happy! Register for DPR's e-newsletter and never miss a web exclusive article or video. Go to dentalproductsreport. com/subscribe.



Interested? Circle Product Card No. 12

All of the WOW anone of the OW!



poladay & night

TAKE HOME ADVANCED TOOTH WHITENING SYSTEMS

Pola Day

- From 30 minutes once a day
- Available in 3%, 7.5% and 9.5% hydrogen peroxide

Pola Night

- From 45 minutes once a day
- Available in 10%, 16% and 22% carbamide peroxide



FOR TIPS ON INCREASING TOOTH WHITENING, GETTING BETTER WHITENING RESULTS & FOR A FREE SAMPLE GO TO:

www.dentalproductsreport.com/sdi-pola



Your Smile. Our Vision.

HIGH WATER CONTENT

www.sdi.com.au www.sdilearning.com SDI (North America), Inc. 729 N. Route 83, Suite 315 Bensenville, IL 60106, USA Toll free: 1800 228 5166 Fax: 630 238 9200 usa.canada@sdi.com.au Pola Day+Night
2008
REALITY
Four Star Award



It's always our goal to deliver the best product information



In a recent readership poll, you told us what you like most about DPR. While we were thrilled with just how many of you liked a wide variety of the features and sections we offer in every issue of DPR, we also once again let our audience tell us what we already knew—that many dentists flip through these pages each month searching specifically for information on new products.

In our 40-plus years, it has always been the goal of DPR

to let you know about new product launches. This latest reader survey indicates that in addition to new launches, what many of you like most are step-by-steps on using new products, along with reviews, whether it be from The Catapult Group or Contemporary Product Solutions, or from colleagues who tell their stories of product use in our Double Take features.

Over the years we've also attempted to bring trade show experiences to those who can't attend all the major trade shows, offering up videos, product news and show coverage in a variety of methods.

In this issue of DPR, you'll find new products, plenty of

products you'll want

Ó

to see while attending GNYDM.

Preview begins on Page 26

reviews and several how-to technique articles designed to inform you on how to best use some of the great new offerings and help you out in your efforts to deliver the best care possible to your patients and to make your daily work routines better.

What you'll also find is a section previewing more than 30 innovative products to look for at the Greater New York Dental Meeting, Friday, Nov. 29 through Wednesday, Dec. 4. Many of these products have

recently been featured on the covers of DPR and they are worth another look, so don't miss this section. In case you're attending the meeting, we've also included the booth numbers to help you map out your time on the trade show floor.

So keep letting us know how we can help you, and as always, feel free to let me know what else you'd like to see on the pages of DPR and at dentalproductsreport.com.

Stan Left

STAN GOFF EDIT OR IN CHIEF

Subscribe to Advanstar Dental Media eNewsletters at dentalproductsreport.com/subscribe.



CLEAR SOLUTIONS FOR CUSTOMIZED EFFICIENCY



ORTHODONTIC

Introducing Hu-Friedy's **CLEAR COLLECTION**

Hu-Friedy's Clear Collection consists of innovative instruments designed to accent, individualize and optimize the biomechanics of the invisible aligner experience.

Visit us online at Hu-Friedy.com

Call 1-800-Hu-Friedy or contact your authorized Hu-Friedy representative for more information. @2013 Hu-Friedy Mfg. Co., LLC. All rights reserved.

How the best perform



Interested? Circle Product Card No. 14

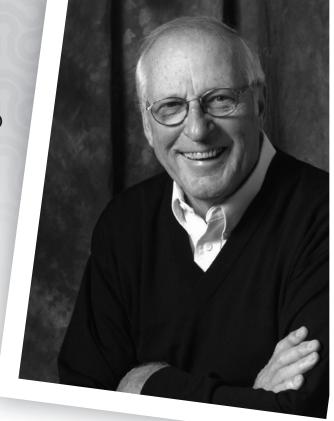
Now... Temps that stay on and don't break



"You owe it to your patients to use a **sectional** matrix system.

You owe it to yourself to use Garrison "

Edgar Garrison, DDS (1930 - 2009)



Provides exceptional Class II results vs. Tofflemire-style bands

Try the Award-Winning

Composi-Tight3D XR. **

Sectional Matrix System

- Creates perfectly contoured contacts
- Eliminates point contacts and food traps
- Saves time with zero flash and no costly re-do's



ORDER TODAY

& Receive \$50 OFF Your 1st Starter Kit.

Not available online



- 40 SlickBands XR Non-Stick Matrix Bands (assorted

- 40 Wedge Wands
 1 3D500 Soft Face Ring (orange)
 1 3D XR Extra Retention Ring (blue) 1 Ring Placement Forceps

Order Today:

888.437.0032 toll free







Interested? Circle Product Card No. 16



Mention Code

DENTALPRODUCTSRE

641 Lexington Avenue, 8th Floor, New York, NY 10022 212-951-6600 | Fax: 773-847-6486 | dpr@advanstar.com

dentalproductsreport.com

EDITORIAL OFFICES

Executive Vice President Georgiann DeCenzo Vice President/General Manager John Schwartz Group Editorial Director Kevin Henry Editor in Chief Stan Goff Managing Editor Renee Knight

Senior Editor Ryan Hamm

Content Specialist - Database Michael Quirk Director of Business Development Thais Carter E-media Director Steve Diogo Content Specialist - Marketing Greta Lieske

Technology Editor Dr. John Flucke

Art Directors Steph Johnson-Bentz, Kristen Morabito Production Director Jesse Singer

Audience Development Manager Kristina Bildeaux, 507-895-6758

List Sales Carissa J. Simmerman

Permissions/Licensing Maureen Cannon, 440-891-2742

ADVERTISING SALES

Midwest Keith Easty, 218-740-6511 Fax: 218-740-6433, keasty@advanstar.com East Coast Derek Hamilton, 610-449-1056 Fax: 610-449-1056, dhamilton@advanstar.com

West Coast Jasmina Elmasri, 310-400-4938 jelmasri@advanstar.com

Sales Support Coordinator Kathy Dieringer, 224-764-2170 kdieringer@advanstar.com

Classifieds/Display **Linda Barrier**, 800-225-4569 ext. 2701 Fax: 440-756-5271, lbarrier@advanstar.com

EXECUTIVE OFFICERS

Chief Executive Officer Joe Loggia

Chief Executive Officer Fashion Group, Executive Vice-President Tom Florio

Executive Vice-President, Chief Administrative Officer & Chief Financial Officer Tom Ehardt

Executive Vice-President Georgiann DeCenzo

Executive Vice-President Chris DeMoulin Executive Vice-President Ron Wall

Executive Vice-President, Business Systems Rebecca Evangelou Executive Vice-President, Human Resources Julie Molleston

Sr Vice-President Tracy Harris

Vice-President, Media Operations Francis Heid

Vice-President, Legal Michael Bernstein

Vice-President, Electronic Information Technology J Vaughn

SERVICES

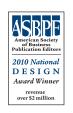
U.S. and Canadian subscribers: 888-527-7008 All others, please call: 218-740-9477

New Products and Meeting Information e-mail to: dentalproducts@advanstar.com

Custom Reprints: 877-652-5295 ext. 121/ bkolb@wrightsmedia.com Outside US, UK, direct dial: 281-419-5725. Ext. 121

Back Issues: Call 800-598-6008 for rates

Mailing Lists: Call Carissa J. Simmerman 440-891-2655













Imprint™ 4 VPS Impression Material

Speed

The fastest intra-oral setting time on the market¹ reduces stress for patients

Control

Designed with long working time to give you greater flexibility and accuracy Fastest intra-oral setting time!

Up to Compare the setting time than Aquasil Ultra XLV Super Fast Set

Introductory Special \$99 Intro Kit



Imprint[™] 4
VPS Impression Material

3M ESPE

Learn more and redeem the Special Offer at: www.3MESPE.com/Imprint4



THE LIST

for team development and practice success

Coming in January: Top 7 Products Patients Demand

TOP 5 REASONS YOU SHOULD GET SOCIAL_>>>



Your patients are into social media

Social media is a great way to connect with current and potential patients outside of your practice. Many of your patients are already on Twitter, Facebook and Google+, sharing and posting with their friends—so you should be there interacting and sharing practice updates, too.

It's a great marketing tool

Just finished a successful, complex cosmetic case? Share before-and-after photos on Facebook and tag the patient (with permission of course). Tweet about special promotions. Use social media as another marketing tool to get the word out about the great things you're doing at your practice.

You can interact with your community on a different level

Social media is all about engagement and connecting. It gives you the opportunity to share practice updates and photos, as well as interact with patients and community members. It also enables patients to share those updates with their friends and followers, expanding your reach.

It's cost-effective

Not only does social media put you in front of your patients outside of the office, it does it for free!

Use it as a leadership opportunity

If you're serious about using social media to your advantage, someone has to manage it. A static Facebook page or Twitter account won't do you much good. Assign social media management to someone in your office. It's a great leadership opportunity for a team member who has an interest in marketing and patient engagement.

PHOTO: CHRISTOPHEHEYLEN / GETTY IMAGES



TheraCal LC is a light-cured, resin-modified calcium silicate. Its unique apatite stimulating ability makes it ideal for direct and indirect pulp capping and as a protective base/liner under composites, amalgams, cements and other base materials. TheraCal LC is a natural (or perfect) replacement to calcium hydroxide, glass ionomers, RMGI and IRM/ZOE due to its interactive properties.



Buy a 4-Syringe Pack, Get a FREE Syringe

Offer expires 12/15/2013. Promo code 13A11. U.S. customers only. Discounts cannot be combined with any other offer.

MC-10122TC

Like us on: You Tube



Rx Only

Calcium Silicate Pulp Protectant/Liner

Resin-Modified

- Calcium release stimulates hydroxyapatite and secondary dentin bridge formation
- Alkaline pH promotes healing
- Significant calcium release leads to protective seal
- Protects and insulates the pulp



1.800.BIS.DENT · WWW.BISCO.COM

A "Dual Digital" approach

With the availability of ultra-compact, low-cost, flexible phosphor sensor units like Air Techniques' ScanX® Swift, clinicians should try this approach.

by scott benjamin, dds

For years' I have been advising the dental profession to pursue a "dual digital" approach to radiography by using both digital options available to them: direct sensors and flexible phosphor sensors' Today this approach makes more sense—and cents—than ever before particularly with the availability of ultracompact' low cost flexible phosphor sensor units like the ScanX® Swift

Many practices use film in concert with their direct sensors to accommodate situations where a rigid direct sensor is impractical for use with certain patients. In my experience, however, it is much more beneficial to pair direct sensors with flexible phosphor sensors, which have numerous advantages over film:

Image resolution

Most clinicians who have used both film and flexible phosphor sensors agree the image resolution with the latter is superior.

Diagnostic enhancement

Flexible phosphor sensors allow the practitioner to conveniently analyze the images for diagnostic purposes with the same digital tools that are used with direct sensors, such as adjusting the



Scan X Swift's flexible phosphor sensors can offer 17 to 38% more image area than direct sensors.

brightness, contrast, grayscale, size and sharpness.

Processing speed

With film, it can take 6 to 8 minutes to complete a full-mouth series, compared to less than 2 minutes with flexible phosphor sensors. With a compact unit designed for chairside use, such as the ScanX® Swift, it only takes 9 seconds to deliver an image to your operatory monitor.

Cost savings, benefits

An all-digital approach to radiography also means saving the practice up to thousands of dollars currently spent purchasing chemicals each year.

Additional benefits include office space efficiency and staff productivity. Going filmless eliminates the need to devote a room or significant counter space to a chemical processor, or other precious space to chemical bottles and file cabinets containing film X-rays.

The flexible phosphor digital processor requires no routine cleaning or maintenance, which eliminates one of the staff's most dreaded tasks: maintaining the chemical processor. This helps with productivity and staff morale.

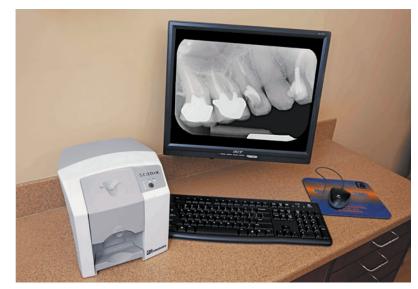
Replacing film with flexible phosphor sensors will make the practice compliant with the coming government mandate that all dental and medical offices use all-digital storage of patient data.

It also improves image access and recordkeepng. The practice's efficiency and productivity will benefit from the convenience of digital image access and paperless recordkeeping.

Practices employing a "dual digital" approach to radiography will find that flexible phosphor sensors complement rigid direct sensors by overcoming several of their shortcomings:

Identical sizes to film—Flexible phosphor sensors are available in the exact same sizes as film, unlike direct sensors.

Large, rigid direct sensors can be difficult, and sometimes impossible, to accurately position in the oral cavities of patients with large tori, small mouths,



With ScanX Swift, you can capture 100% of the images you want, ensuring complete diagnosis and helping your patients understand and receive the treatment they need.

gag reflexes, or the inability to open their mouths wide. With flexible phosphor sensors, this is simply not a problem.

The smaller, thinner size and softer edges of the flexible phosphor sensors, coupled with the lack of wires, make for a more pleasant patient experience.

Image area/ workflow, low costs

Flexible phosphor sensors generally offer 17 to 38% greater image area than direct sensors, which means the clinician can more assuredly capture the complete coronal-to-apical length, get more mesial-distal information, rarely miss a root tip or distal cusp, and experience fewer retakes.

The fact that the workflow with flexible phosphor sensors is essentially identical to film means minimal time spent teaching a new protocol to the practice's staff.

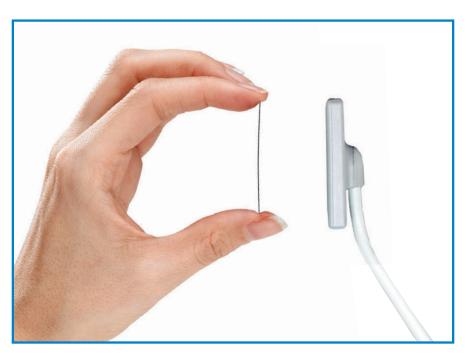
Most flexible phosphor sensors cost only about \$40, a fraction of the cost of direct sensors, and can be reused hundreds and perhaps even thousands of times. In addition, there is no need for costly sensor insurance that is normally considered advisable for direct sensors.

When a practice uses both direct sensors and flexible phosphor sensors and one of the systems goes down, the practice will still have the other as a digital back-up. The "dual digital" approach also provides the practice a way to increase its revenues. When a patient struggles with the placement of a digital sensor, it is tempting to try to get by without the appropriate diagnostic information that would be provided by a radiograph. However, when the practice has the option of using a smaller, thinner, flexible phosphor sensor with such a patient, the necessary radiographic information can be captured without delay, compromise or lost revenue.

Practices that now rely solely on film radiography may find flexible phosphor sensors to be the easiest way transition into the digital world and avoid the larger financial commitment required with direct sensors.

Practices that are still using film radiography—either alone or in concert with direct sensors—will find that replacing film with flexible phosphor sensors can simultaneously enhance their patient care, office productivity and practice profitability. •

Fits Where Rigid Sensors Don't. scan-x swift





Scott Benjamin, DDS

"Lets practices take a 'dual digital' approach by providing a flexible digital option when direct sensors won't fit due to small mouths, large tori, gag reflexes or uncooperative patients."

EXCELLENT DIGITAL RADIOGRAPHY

• Get 100% of the images you want, even for patients with small mouths, large tori, or gag reflexes.

EXCEPTIONAL DIAGNOSTIC CLARITY

• Up to 38%* more image area—capture every root tip (even on maxillary canines).

UNMATCHED PATIENT COMFORT

• Flexible, cordless phosphor sensors for easy, comfortable placement, even for third molars.

CONVENIENT CHAIRSIDE WORKFLOW

Easy for your assistant; efficient for you.

SMART INVESTMENT

• Less expensive than rigid sensors (and no insurance needed).



*An Independent, non-profit, dental education and product testing foundation: Issue 9, September 2011

No. 6 in a Series

To order please contact your local dealer. For more information, visit www.airtechniques.com.





Introducing the new generation STATIM[®]... the STATIM G4 Series

The gentleness you know, a level of interactivity never seen before



Dri-Tec®

STATIM, the world's fastest autoclave from start to sterile.



A large touch screen offers communication between the unit and the user, allowing for easy operation, and tutorial viewing.



Connect to anyone from anywhere... your STAT/M is now accessible online.



G4 collects all cycle data and service history, protecting your office and patients.

www.scican.com

SCZGAIN

A Sanavis Group Company

Your Infection Control Specialist™



48 PRODUCTS, AND A BIG APPLE PREVIEW

Ó



Exceptional handling and shade matching

Glaslonomer FX-II Capsule is formulated to demonstrate high fluoride release and rechargability, with compressive strength in equal adherence to enamel and dentin to offer a strong marginal seal. Additionally, it improves working time by removing conditioners and allowing for immediate use after mixing, offering a set time of two minutes and 30 seconds. Other features of FX-II include high radiopacity, and low solubility and acid erosion levels, plus its thermal expansion properties are said to be similar to natural teeth and provide less stress on the restoration.

Shofu Dental Corp.

800-827-4638 shofu.com CIRCLE RS NO. 22

SCAN-



MORE GREAT PRODUCTS YOU WON'T WANT TO MISS...



GNYDM Products WHAT TO SEE

IN NEW YORK
Check out these great
new products at the
Greater New York
Dental Meeting.



Special Report

FAST, ACCURATE IMPRESSIONS

A close look at 3M ESPE's new Imprint 4 VPS impression material.



Benchmark

UNIVERSAL COMPOSITE

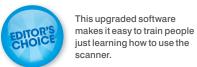
The Catapult Group presents its review on DENTSPLY Caulk's TPH Spectra.

26









Scanner software

Updated software

Version 4.1 software for the **3M True Definition Scanner** is said to improve the scanning handpiece's focal range, allowing for easier full-arch scans and improved capture of challenging areas of the oral anatomy. Practitioners who tested the software in a clinical setting reportedly praise its enhanced scan speed and the ease with which it captures incisal edges and interproximal spaces, providing greater user control and less chair time for the patient. The new software will be automatically installed on all 3M True Definition Scanners.

3M ESPE

800-634-2249 3M.com/TrueDef CIRCLE RS NO. 23





Alginate

Cost-effective, accurate impression material

Dust-free **IMAGE Alginate** is a cost-effective option for detailed, accurate impressions. Green-colored, mint-scented and biodegradable, Fast Set IMAGE Alginate sets in 2 minutes, while Regular Set takes 3 minutes. When sealed in a plastic bag to delay the impression pour, both versions offer 100 hours of dimensional stability. It is available in one stand-alone 500g pouch, or in a Fast Set starter pack that contains one 500g pouch of alginate, one mixing canister, a powder scoop and a water vial.

DUX Dental

800-833-8267 duxdental.com CIRCLE RS NO. 25





Abutments

Abutments for provisional restorations

HI-TEC IMPLANTS new abutments are available in engaging or non-engaging versions. These abutments, designed for the fabrication of acrylic provisional screw-retained restorations, are said to be compatible with most major implant systems.

HI-TEC IMPLANTS

800-452-0582 hitec-implants.com CIRCLE RS NO. 24





Laser handpiece

All-tissue ablative scanning handpiece

The **X-Runner** digital laser scanning handpiece for the LightWalker AT dual-wavelength dental laser offers automated all-tissue ablation capabilities, and allows users to adjust cutting area size and shape. It is well suited for precise, deep or wide cuts in hard or soft dental tissues. The handpiece can be used for a variety of treatments, such as standard cavity and veneer preps, as well as surgical and implant procedures. Practitioners can use the same parameters and settings that are available with the LightWalker AT's standard handpieces.

Lasers4Dentistry, a division of Technology4Medicine

949-276-6650 t4med.com CIRCLE RS NO.26





Your best option for high-strength.

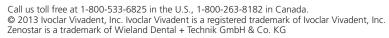
The company that brought you all-ceramics now brings you Zenostar, your premium brand choice for full contour zirconia restorations.

The Zenostar pre-shaded, high translucency zirconia, provides you with a strong and versatile restorative solution that meets the high performance demands of the most challenging cases.

Prescribe the best zirconia – Prescribe Zenostar.









Booth #**3936**







PatientActivator®

Introducing a redesigned dashboard at GNYDM, this patient communications and online marketing solution delivers the next generation in automated appointment reminders, online reviews, marketing promotions, and social media integration.

1-800-DENTIST

888-463-7468 1800dentist.com/patientactivator CIRCLE RS NO. 31







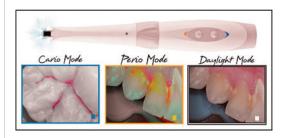


Imprint™ 4

Billed as the fastest impression material on the market, this VPS impression material reportedly sets in just 75 seconds. Also, Imprint 4 VPS provides the same setting time of Imprint 3 VPS, but speeds up the set time with an active self-warming feature developed specifically for this product.

3M ESPE

800-634-2249 | 3MESPE.com/Imprint4 CIRCLE RS NO. 28



SOPROCARE

near future.

Using autofluorescence and chromatic amplification, this prophylaxis camera reveals caries, new and old plaque, as well as gingival inflammation. Three modes provide comprehensive information and tools necessary to perform complete and efficient oral examinations.

ACTEON North America

800-289-6367 | acteonusa.com CIRCLE RS NO. 29



ScanX Swift

By uniting thin, flexible wireless sensors with a fast image scanner, this phosphor-plate imaging system sends images to a monitor just as quickly as rigid sensors. Additionally, ScanX Swift's sensors are said to deliver high-quality images and to be 10 times thinner than rigid sensors, which reportedly improves patient comfort.

Air Techniques

800-AIR TECH | airtechniques.com CIRCLE RS NO. 30 Booth #**4004**



Lubricare

This handpiece maintenance device offers sprays specifically designed for separate phases of the maintenance cycle: Spraynet, for dissolving impurities and cleaning; and Lubrifluid, for lubrication of instruments. The device holds up to 4 instruments per cleaning cycle, while cycles take 25 seconds per instrument with two choices of cleaning and lubrication modes.

Bien-Air USA Inc.

800-433-BIEN |bienair.com CIRCLE RS NO. 32





NewTom VG3

Offering a dynamic, single-rotation field of view, the VG3 is said to be an important contribution to the high-performance field of view offered by its predecessor, the VGi. A modular hybrid 2D/3D system, the VG3 can start as a 2D system that is upgradable at any time to include a cephalometric sensor or 3D cone beam computed tomography with an 11" x 8" field of view.

BIOLASE

888-424-6527 | biolase.com CIRCLE RS NO. 33





eCEMENT™

eCEMENT offers a light-cure and dual-resin cement to ensure lithium disilicate restorations provide long-term retention of single or multiple restorations, as well as shade stability. Additionally, the radiopaque cement offers easy placement of lithium disilicate veneers, onlays, crowns, three-unit bridges and inlays.

Bisco

800-247-3368 | bisco.com CIRCLE RS NO. 34









Perfectemp 10

This material's 10:1 automix formula results in a minimal oxygen-inhibited layer for better handling and polishability, plus it provides high compressive and flexural strength. 3.4% shrinkage is said to offer an accurate fit and marginal integrity, while the material's multiple uses make it well suited for a wide range of highly esthetic restorations.

DenMat

800-4DENMAT | denmat.com CIRCLE RS NO. 35



TPH Spectra™ Universal Composite

This composite provides the handling preference of choice, while a reduction in shades allows for carrying less inventory in the office. Plus, it is said to provide confidence that the chameleon shading ability of the composite will blend into the surrounding tooth structure, making the restoration indistinguishable.

DENTSPLY Caulk

800-532-2855 | tphspectra.com CIRCLE RS NO. 36



Midwest® Automate™

This 4-port automated handpiece maintenance system reportedly offers accurate and consistent cleaning, lubricating and expelling, Plus, all-steel construction is said to offer durability for a longer life, while a dedicated chuck cleaning port cleans and lubes the handpiece chucking mechanism for simpler insertion and extraction of cutting instruments.

DENTSPLY Professional

800-989-8825 | professional.dentsply.com CIRCLE RS NO. 37

Booth **#2600,** 2800









DMG



ProTaper NEXT®

These rotary files feature variable taper performance as well as an off-centered, rectangular cross-section for enhanced file strength. A rectangular core also adds greater strength as the file tracks down the canal. The axis of rotation differs from the center of mass, and as a result, only two points of the rectangular cross-section touch the canal wall at a time.

DENTSPLY Tulsa

800-662-1202 tulsadentalspecialties.com CIRCLE RS NO. 38

DEXIS go®

This companion app to DEXIS Imaging Suite 10.0.5 and higher is an engaging way for dental professionals that use iPads to communicate with patients. Designed to offer a visual patient experience around image presentation, the app's new graphical environment models its parenting program to allow it to function as an imaging hub via a practice's Wi-Fi network.

DEXISTIC

888-883-3947 | dexis.com CIRCLE RS NO. 39

Constic

This self-adhesive flowable composite is reportedly engineered for multiple clinical procedures, offering etching, bonding and filling in a single step. Also, Constic saves clinicians treatment steps and reduces the risk of error, providing one of the strongest bonds to tooth structure in comparison to other leading brands.

DMG America

800-662-6383 | dmg-america.com CIRCLE RS NO. 40

Booth **#4027**





the showroom floor!





E4D NEVO Scanner & Design Center

Outfitted with E4D's blue laser technology, the E4D NEVO scanner offers high quality, powder-free image capture, plus exceptional video-rate speed and ease of use. The Design Center offers rapid processing and alignment of scans by providing more energy and double the bandwidth of USB 3 connections.

E4D Technologies

877-293-4945 | e4d.com CIRCLE RS NO. 41



G-CEM LinkAce™

This self-adhesive resin cement's chemical initiator system reportedly provides high polymerization in self-cure mode, while phosphate monomers offer high bond durability to zirconia restorations. The resin cement shows low water sorption and is HEMA-free, which is said to offer exceptional color stability.

GC America

800-323-7063 gcamerica.com CIRCLE RS NO. 42

Finally! An invisible* varnish your patients will love.

Durashield®
5% SODIUM FLUORIDE CLEAR VARNISH

Invisible* | Significantly less wear time* | Unique unit dose design† | Easy to apply

New *DuraShield® CV* is invisible*, so patients will feel less self-conscious after a varnish treatment. And with significantly less wear time than competitive varnishes*, they'll leave your office happy. For you, its unique unit-dose package[†] and thin, non-drip formula make it incredibly easy to apply with less mess. See how clearly better it is at **DuraShieldCV.com**









Black Line Surgical

underlying tissue.

CIRCLE RS NO. 44

Hu-Friedy

Instrument Collection

800-HU-FRIEDY | hu-friedy.com

The 51 instruments in this collection feature a specially

engineered coating that reportedly enhances contrast

outcomes. Additionally, the instruments' black finish

is said to offer visual acuity at the surgical site and

and decreases light reflection for better clinical

Booth #1400



Booth

i-CAT® FLX

This 3D imaging solution is said to help clinicians quickly diagnose complex problems with less radiation and develop treatment plans more easily and accurately. It features 3D planning and treatment tools for implants and restorations, oral and maxillofacial surgery, orthodontics, plus TMD and airway disorders.

Imaging Sciences International 800-205-3570 | i-cat.com

CIRCLE RS NO. 45





IsovacTM

Said to be well suited for dental practices seeking an enhanced isolation solution, this dental isolation adapter modifies a standard HVE hose to easily attach and fit any Isolite mouthpiece.

Isolite Systems

800-560-6066 | isolitesystems.com CIRCLE RS NO. 46





Virtual® XD

This system of VPS impression materials reportedly offers optimized flow characteristics for deeper penetration to the sulcus; exceptional wetting ability for precise hard and soft tissue reproduction; and greater tear strength that maintains marginal integrities and detail after removal.

Ivoclar Vivadent

800-533-6825 | ivoclarvivadent.com CIRCLE RS NO. 47



Ultra Demi Ultracapacitor Curing Light

This curing light's ultracapacitor allows the device to fully charge in less than 40 seconds, offering 25 ten-second cures without losing charge strength like curing lights powered by conventional rechargeable batteries.

877-685-1484 | kerrdental.com CIRCLE RS NO. 48



Booth

#4403

One-Step Polishers

The polishers incorporate ultrafine-grit diamond particles for efficient delivery of a high-shine polish on composite materials in a single step, following the thorough finishing of restoration surfaces. Constructed of heat-tolerant, high-quality materials, the instruments can be safely sterilized in an autoclave and resist degradation and deformation.

KOMET USA

888-566-3887 | komet-usa.com CIRCLE RS NO. 49



Luxatemp: Everyone Has a Favorite

Over 20 years ago, Luxatemp set the benchmark as the ultimate provisional material with its ability to make temporaries beautiful in all lighting conditions. Since then, DMG has expanded its line of provisional products with tailor-made variations focused on the needs of the clinician. Whether its Luxatemp Fluorescence's unique handling and superior aesthetic qualities, Luxatemp

Ultra's record values for flexural strength and break resistance, or the tried and true reliability of Luxatemp Plus, Luxatemp continues to deliver the unmatched clinical results and overall quality synonymous with the Luxatemp name. For more information, contact your dental supplier, call 800-662-6383 or visit dmg-america.com. Dental Milestones Guaranteed







Dental Advisor Award received for Luxatemp Ultra.

* Free goods shipped directly from DMG America. To receive free goods, please fax your paid dealer invoice to DMG America at 201-894-0213. Order must be placed through Authorized Dealer and redeemed within 30 days of purchase. Limit (2) per dental office. Offer valid October 1 - December 31, 2013. May be discontinued at any time.



Booth #**234**, **3209**









NobelProcera® 2G Scanner

The scanner offers advanced automation and new features designed to reduce setup time and speed workflows, letting technicians create more cases in less time with fewer rescans or redesigns. The scanner's Smart Motorized Holder positions models for the best scan data, while dynamic scan strategies apply the correct scan algorithm to the specified object.

Nobel Biocare 800-322-5001 | nobelbiocare.com CIRCLE RS NO.50

Ti-Max Z45L

This 45° handpiece is said to offer easy access to hard-to-reach molars. Also, its slim design provides excellent operability and high visibility, producing more space between the teeth adjacent to the handpiece's front and body. Also, powerful and consistent cutting reduces sectioning and third-molar extraction treatment times, as well as patient stress.

NSK Dental

888-675-1675 | nskdental.us CIRCLE RS NO. 51

Eaglesoft 17

This improved practice management software offers new features that are said to help dental practitioners simplify daily routines, including customized medical history, Eaglesoft Newsfeed, Web-based Patterson Auto Update, CareCredit bridge, and integrated Clinician Lite for Eaglesoft Clinician users.

Patterson Dental

800-328-5536 | eaglesoft.net CIRCLE RS NO. 52



Booth #**4800**



Booth #**5015**



Plak Smacker fluoridefree toothpaste

This bubblegum-flavored fluoride-free toothpaste is available in a convenient 0.85-ounce tube. It is said to be a great way to encourage good brushing habits in young patients. Children will love the bubblegum flavor, and it's fluoride-free, so it's safe to swallow when used as directed.

Plak Smacker

800-558-6684 | plaksmacker.com CIRCLE RS NO. 54



Riva Bond LC

This universal light cured adhesive for direct restorations is said to dramatically reduce polymerization stress caused by composites shrinking. It features Stress Reduction Technology and bioactive ionglass technology with advanced glass ionomer resin technology to ensure minimal stress at all bonding interfaces.

SDI Limited

800-228-5166 | sdi.com.au CIRCLE RS NO. 55

Flexcare Platinum

Equipped with anchor-free tufting technology, the FlexCare's InterCare Brush Head contains more bristles than traditional brush heads, which allows it to be arranged in patterns to perform specific tasks. Also, two sets of bristles—light green and blue—remove plaque from between the teeth and remind users to change the brush head after three months.

Philips Sonicare

800-676-7664 | sonicare.com CIRCLE RS NO. 53



IF "GOOD ENOUGH" SIMPLY ISN'T GOOD ENOUGH, LOOK NO FURTHER THAN EAGLESOFT.

With more services, better support and the guidance of the industry's technology leader, Eaglesoft makes an instant impact on your practice. Now, Eaglesoft 17 makes you even more powerful.

- Customizable medical history
- 3D imaging
- CareCredit integration
- Patterson Auto Update (PAU)
- Eaglesoft news feed



Call 800.294.8504 or visit eaglesoft.net today.



Always, Affordable.

Always Reliable.

Compare & Save!

PFM (Base Metal)	\$49
IPS e.max Veneer	\$69
IPS e.max Crown	\$79
Zirconia Crown	\$79
Porcelain to Captek Crown	\$109
Flexible Partial Denture	\$129
Value Denture	\$129
Deluxe Denture	\$169
Combo Partial: CHROME WITH CLEAR CLASP	\$159
ZirluxFC: 100% PURE ZIRCONIA	\$79





Discover the Reliable Arts advantage & give your practice a competitive edge today!

877-392-5755

www.reliablearts.com

Interested? Circle Product Card No. 74

PRODUCT WATCH

NEW YORK 2013





Glaslonomer Cement CX-Plus

CX-Plus is a self-curing glass ionomer luting cement that's ideal for minimally invasive dentistry. The capsules bond to both enamel and dentin, offering an excellent marginal seal.

Shofu Dental Corporation

800-827-4638 | shofu.com CIRCLE RS NO. 60





SCANORA® 3Dx

This panoramic imaging system can reportedly produce detailed, high resolution, localized images for endo or periodontics, or full skull images for orthodontics and OMS orthognathic surgery. With the Autoswitch™ feature, dental clinicians can easily change from high-def panoramic to CBT without needing to reposition the patient.

SOREDEX

800-558-6120 | soredex.com/usa CIRCLE RS NO. 56





Durashield®

This CV sodium fluoride varnish is transparent, so it is said to leave no discoloration on the teeth. Additionally, its wear time is just two hours, while a non-drip formula allows for quick and easy setting on the tooth, allowing dentists to provide treatment in just a few seconds.

Sultan Healthcare

800-871-1232 | sultanhc.com CIRCLE RS NO. 57



It takes guts to say it's the best,

but since we make the guts ...

we can.

of all handpiece components are manufactured in-house.

What makes NSK handpieces the best?

We engineer and manufacture nearly every part in-house – we don't just assemble parts made by someone else. And, since we control the quality going into all of our handpieces, we can trust them to deliver the reliability you need.



BUY ANY 2

Ti-Max Z95L or Ti-Max Z45L

GET 1 FREE!

Get the details or request a FREE 1-week trial at www.NSKDental.us

Try Ti-Max Z95L and Z45L yourself at: The 2013 Greater NY Dental Meeting December 1st - 4th Booth #3236

NSK
Ti-Max Z45L ...
the world's first

45°

electric!

- Quiet & powerful
- Greater visibility and access to molars
- World's first 2-way spray function – jet spray or mist

NSK instruments are available from:











Ti-Max Z

Smallest head & slimmest neck in electric attachments.*



NEW YORK 2013

#831, 4405









Easyshade Advance 4.0

This 4th-generation digital shade matching system provides optimal determination, advanced measurement technology and sturdy LED components. While in "average" mode, practitioners can size up to 30 shades on one tooth to arrive at a median shade, reportedly making the determination of a base shade on anterior teeth easier.

Vident/VITA

800-828-3839 | vident.com CIRCLE RS NO. 58



Futurabond® U

This dual-core adhesive offers universal indications for all adhesive products without the need for additional activators or primers, plus it can be used in selfetch and total-etch modes on nearly all substrates.

VOCO America Inc.

888-658-2584 | vocoamerica.com CIRCLE RS NO. 59



Vera by Young™

This disposable prophy angle's compact head and slim neck design improve maneuverability in the mouth during polishing. The angle enhances reach in a variety of clinical situations, plus its design makes polishing the distal regions of posterior molars easy.

Young Dental

800-325-1881 | youngdental.com CIRCLE RS NO. 61

The Ultimate Solution in Enzymatic Cleansing! ✓ Evacuation Cleaner ✓ Breaks down build-up of organic debris Non-toxic and biodegradable Foam fighting Peppermint and new country meadow scents Instrument pre-soak and ultra-sonic cleaner Eliminates organic odors Environmentally and user friendly sani-tre



www.enzymeindustries.com sani-treet is a registered trademark of Enzyme Industries, Inc.



Interested? Circle Product Card No. 77

Available from dental

dealers worldwide.

Go Paperless, Mobile, Seamless at Every Point of Patient Care





800.328.2925 | www.XLDent.com

The total technology solution

How three technologies from Biolase—WaterLase iPlus, NewTom VGi and the 3Shape TRIOS—have positioned Golan Family Dentistry as a leading-edge practice that puts optimal patient care and comfort first.

by renee knight



DR. HOWARD GOLAN

graduated from the University of Michigan School of Dentistry and completed a general practice residency at North Shore University Hospital in New York. Dr. Golan also trained two years in the Implant Surgery and Advanced Prosthetic Fellowship Program at NSUH.

About three years ago, Dr. Howard Golan decided it was time the atmosphere at his practice reflected the high-tech, leading-edge dentistry he offers

He practices with his father, Dr. Marshall Golan, who first opened Golan Family Dentistry about 40 years ago. Dr. Howard Golan came on as his partner in 1998, and since then they've worked together to create a practice that focuses on treating the mouth as part of the body, not just individual teeth. They offer their patients minimally invasive, preventative dentistry and all the high-tech products that make that kind of care possible, but until recently they practiced in the basement of a house. While it was a nice space, the father/son team began to outgrow it, and knew it was time to create a new, modern practice that would wow



The father/son team Drs. Marshall (left) and Howard (right) Golan have worked together since 1998, and are proud to offer their patients the most up-to-date technologies and the most minimally invasive dentistry possible.

their patients and better reflect the type of dentistry they offer.

After some searching, they found the right space to build their dream practice in Willston Park, N.Y., a space they could use to really showcase their technology and better do the type of dentistry they love. After working with an interior designer to create the look and feel they wanted, they moved into their new practice a year and a half ago. Today, the team couldn't be happier with the

modern atmosphere they were able to create.

"Patients who have been with us for many years are in shock," Dr. Golan said. "It's pretty amazing. I don't feel self-conscious any more when a new patient comes in looking for technology. Our office now matches what we do."

The importance of high-tech

The right technology is essential to any dental practice, Dr. Golan said, and that's why it is so important to him that his practice reflects that high-tech philosophy of care. Dr. Golan has built his reputation on making technology and advanced treatment a big part of what they do at Golan Family Dentistry. Patients know he's a high-tech dentist and that he offers the products that will make their time in the chair less stressful and more comfortable. Beyond that, using high-tech products in his practice keeps him passionate about his work.

"For me it's essential. It makes my life easier. It makes

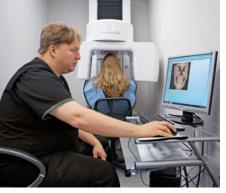
me enjoy what I do more," he said. "I've never been a 'drill and fill' guy. I call that pothole dentistry. That kind of dentistry can make you a lot of money butit didn't work for me. I needed something different."

Dr. Golan's love of technology started with the laser, then expanded to cone beam technology and digital impression taking. Thanks to products from Biolase—the WaterLase iPlus, NewTom VGi and the 3Shape TRIOS—Dr. Golan has the complete technology solution for diagnosis and treatment.

Laser dentistry

Dr. Golan first began using Biolase's WaterLase in 2004, and is amazed every day by what he can do with it. He now uses the latest version, the WaterLase iPlus, and even teaches courses about laser dentistry and what it can do for a practice. Laser dentistry is an amazing technology, he said, and more dentists need to understand just how valuable it is.

"It's built this practice. People ask for it. They look for it.



Products make the difference

Dr. Howard Golan and the team at Golan Family Dentistry have the complete technology solution with the WaterLase iPlus, the NewTom VGi and the 3Shape TRIOS—a fact that puts them on the leading edge in dentistry and makes them stand out to current and potential patients.

They're amazed by it. They're excited by it," Dr. Golan said. "And it's not just the patients; it's me. What I can do with laser dentistry wows me every day. It's hard for a dentist to find a reason every day to say 'wow that was cool.' We're doing that every day because of what we can do with lasers."

The benefits laser dentistry bring patients go far beyond the wow factor they experience when they first see it displayed in the practice. It's a minimally invasive technology that reduces the bleeding and pain normally experienced with a variety of dental procedures, from cavity preps to soft tissue management to root canals, Dr. Golan said. The benefits have been tremendous over the years, attracting new patients to Golan Family Dentistry.

Cone beam imaging

About two years ago, Dr. Golan added the NewTom VGi to his technology mix. It seemed like the next natural extension, he said, and adding cone beam technology into his practice has improved diagnosis.

"It was to the point where the WaterLase had forced me to get better at diagnosing and understanding why things happen," Dr. Golan said. "There's a limit to what 2D film can give you. I got tired of the 'wait and see' approach. Cone beam technology allows us to see things we couldn't see before."

And with this technology, his patients see the benefit right away, Dr. Golan said. The 3D scans really enable them to see what's happening in their mouth, giving them a better understanding of why they need certain treatment. The 3D scans create accurate renderings that labs can use to create restorations that fit, and

they can do it in less time. It's also great for his patients who are concerned about radiation dose levels.

"The NewTom is spectacular because it has safety features on it. It has five fields of view, which allows me to only expose patients to what I need then," Dr. Golan said. "If I just need to look at a single tooth, I can do a 6X6 cm Field of View, or if I'm doing an orthodontic case I can do a 15X15 cm FOV. It has SafeBeam Technology. Every patient gets a different dose; the computer decides the dose. It takes scout images at a basic, very low dosage to make sure positioning is right, and then the machine calculates the necessary dosage to get what it needs. A child is different than a teenager, who is different than an adult."

Introducing an intraoral scanner

CAD/CAM has been part of Golan Family Dentistry for about seven years now, but they just added the 3Shape TRIOS intraoral scanner to the mix about eight months ago, taking it to the next level. The TRIOS has enabled them to cut down treatment times while offering even more accurate impressions. Patients love it because they don't have to deal with the "goop" so often associated with impressions, and if Dr. Golan needs a re-take, it just involves a simple scan rather than four more minutes of impression material in their mouth. That also means less chair time for busy patients.

"Patients are amazed by it," he said. "I had a patient I had to give nitrous oxide and topical anesthetic to just to do an impression, and now there's no issue. We had to get my son an orthodontic appliance, but he's

FEATURED PRODUCTS



WaterLase iPlus biolase.com

The dual-wavelength WaterLase iPlus all-tissue laser is said to deliver more power, control and versatility for experienced laser dentists. Reportedly able to cut hard tissue twice as fast as current laser systems, without the discomfort or risk of cross contamination associated with conventional drills, iPlus creates an optimal bonding surface. The unit also features an intuitive applications-based user interface with a large, high-resolution touch screen programmed with more than 50 factory-loaded procedure presets. The iPlus with the proprietary 2780 nm YSGG technology is available in a dualwavelength configuration with an integrated iLase 940 nm diode laser, or as a stand-alone unit. The completely wireless iLase will enhance the capabilities of the YSGG by providing a diode laser that can be used for unexpected soft-tissue cases in an adjacent treatment room, better control of bleeding, and the freedom to move around with no foot pedals or cords.



NewTom VG3 biolase.com

Newly launched under the NewTom banner, the NewTom VG3 takes an image at every degree of rotation, 360° rotation = 360 images, increasing the range of possibilities for image manipulation. A revolutionary flat panel X-ray detector produces the clearest, sharpest images possible. NewTom VG3 features an adjustable Field of View, which allows the operator to irradiate just the right volume, depending on the required clinical application.



3Shape Trios 3D Intraoral Scanner biolase.com

Featuring Ultrafast Optical Sectioning technology, TRIOS® uses up to 1,000 3D pictures to create geometries based on real data. The scanner captures more than 3,000 2D images per second and does not require dentists to apply spray to coat the patient's teeth, making scanning fast, accurate and comfortable for patients. Dentists can preview 3D lab designs on the TRIOS screen, evaluate and agree on margin lines, access virtual diagnostic wax-ups and generally discuss cases with labs and patients when convenient.

a mouth breather and a gagger. I couldn't get an impression on him. He was great with this and had no issues. That's a big, big change."

The right products

Dr. Golan and the team at Golan Family Dentistry know how important product decisions are to the success of their practice. When Dr. Golan looks at a new technology, he asks himselfifit will change the way he practices. Will it make his job easier, and his patients more comfortable. While ROI is an important factor, it's not the only factor and not always the most important; finding products that improve the care he and his team provides is.

"Those three technologies have really been robust in changing how we deliver dentistry and how patients perceive us and where we're going from here," Dr. Golan said.

Not only that, Dr. Golan looks for products that will keep him excited and passionate about dentistry, products that make him look forward to coming to work every day. He's found that with these three Biolase products, his total technology solution.

"It's also about what it's going to do for the patient and what it's going to do for you, if it has a value for me to do better work, or to do more work and be excited about what I do every day," Dr. Golan said. "When I use these three technologies, it really makes me happy. That's really what it all boils down to."

•



Don't just read about it—watch! Go to dentalproducts report.com/dental/GolanFamilyDentistry

New VPS material creates fast, accurate impressions

New 3M ESPE Imprint 4 VPS Impression Material cuts setting time in half, while still offering adequate working times and accurate impressions that lead to restorations that fit—and happy patients.

by renee knight

A DPR SPECIAL REPORT

Our award-winning editorial team turns our door into the industry into a window on the product development process.

ABOUT THE AUTHOR

Renee Knight is an awardwinning journalist who has



been part of the DPR team since 2007. She now serves as managing editor and enjoys writing, editing and

planning content for both DPR print and online. She holds a BSJ from Ohio University and an MSJ from Northwestern University. She can be reached at rknight@advanstar.com or via her Twitter handle, @ReneeKnight1.

Ben Miraglia has used 3M ESPE's Imprint VPS impression materials in his practice for as long as he can remember

He's relied on Imprint 3 to create accurate impressions for years, and with a 95 percent success rate on first impressions, the material has done its job. But now, with the introduction of the new Imprint 4 VPS impression material, Dr. Miraglia expects to see that success rate reach 97 or 98 percent.

He's used the newly released Imprint 4 in his practice for a few months now and, not only has he not had to do any retakes, his patients are enjoying the faster set times this new impression material offers. Depending on which impression material you use from

the Imprint 4 portfolio, set times range from 2 minutes to a mere 75 seconds with the Super Quick option.

"That's a huge advantage. There's always been a 4 minute set time with these types of impression materials, and a 4 minute set time feels like a week to a patient," Dr. Miraglia said. "To be able to take a VPS impression in 1 minute and 15 seconds is just incredible. Everybody benefits. It saves chair time and saves patients that inconvenience of waiting 4 minutes."

Dr. Miraglia has used Imprint 4 to take impressions for a variety of cases, from crowns and bridges to Invisalign, and said patients have noticed a difference in how long they're waiting in the chair for the mate-

rial to set. Patients don't look forward to having what many see as "goop" in their mouth, so the fact that an accurate impression can be taken in half the time is something patients really appreciate. And Imprint 4 is able to offer these faster set times with the same working time dentists are used to, making this impression material an exciting development for both dentists and their patients.

The idea behind Imprint 4

The team at 3M ESPE began working on Imprint 4 about four years ago, said Dr. Julia Farr, Scientific Affairs Manager, Global Indirect Solutions Business Team, and the idea to create an impression material with a faster set time came from their customers. Dentists wanted a material with a faster set time to improve patient comfort as well as to reduce the chance for mistakes. They also wanted something hydrophilic in the unset state to ensure precise reproduction of details in the oral environment, which leads to accurate impressions and restorations that fit.

"You have the same working time, which is important because you need time to syringe around the teeth to capture all the details, but you can remove the material from the mouth faster," Dr. Farr said. "When the material is setting in the mouth, distortions can occur. When the patient moves or the dentist moves, distortions can occur. With this material the time to set is much shorter, which can lead to better impressions. We have the super hydrophilicity in the unset stage, which is important to capture detail. It is more moisture tolerant to saliva and blood."

As Global Technical Services Advisor for 3M ESPE Prosthodontic Business Team, Mack Rivas is part of that team that talks with dentists and assistants to get a feel for what they really want and need in a product (in this case, impression materials). Once Rivas and his group gathered this informa-



3M ESPE's new Imprint 4 VPS impression material offers a fast set time thanks to its patent pending self-warming mechanism as well as accurate, predictable impressions. For more details visit 3MESPE.com/Imprint4 or circle RS No 80.

Kerr



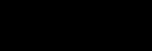
N O B A T T E R Y

NO CORD

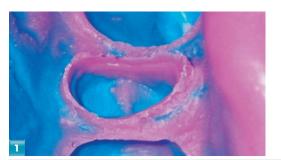
N O E Q U A L

Revolutionary **U-40™ Ultracapacitor** re-energizes to full power in under 40 seconds. Proprietary **C.U.R.E.™ Technology** delivers uniform depth of cure with industry-leading low temperatures.

Don't change batteries, change curing lights.



Demi[®] Ultra





Figs. 1-3 Crown impression using Imprint 4 Heavy and Light impression material (**Fig. 1**). Invisalign impression using Imprint 4 Super Quick impression material (**Fig. 2**). Invisalign impression using Imprint 4 Heavy and Light impression material (**Fig. 3**).



The benefits

3M ESPE's new Imprint 4 offers many benefits, including:

- Short intraoral setting times without compromising working times
- Demonstrates super-hydrophilic behavior in the unset state, which is crucial to capturing the finest details in the moist oral environment
- Creates accurate impressions for precise fitting restorations
- Makes the experience more comfortable for patients, especially gaggers, and leaves less room for error
- The material features a pleasant mint taste
- New fresh colors make the margins easy to read
- Imprint 4 VPS is available in Heavy & Super Quick Heavy, Light & Regular, Super Quick Light & Regular, and Putty formulations to meet a variety of needs

tion, or voice of customer, for what became Imprint 4, they sent it on to the Research and Development department as well as the company's engineers, who from there began thinking about how to develop a product that would meet those needs.

No matter the product, input from dental professionals is key to product development at 3M ESPE, from the very beginning until the product is released, Rivas said.

"3M ESPE's new product introduction process is a very structured way of product development and commercialization," said Dr. Peter Osswald, who is part of the R&D team at 3M ESPE. "This process includes several reviews to demonstrate performance, safety, regulatory requirements, manufacturability and commercialization aspects of a new product. The customer is always in the center of our products. In the beginning, we define the basic product features based on the customer feedback and develop prototype formulations, which meet exactly these requirements in lab tests. After biocompatibility testing and regulatory approval, the customer feedback obtained from application tests in several countries is the key decision factor for the start of commercialization."

And when it comes to new product development at 3M ESPE, there are several departments involved, from R&D to production to quality management to safety to marketing. New product development at 3M ESPE is an intense process that involves a variety of players. The

process can take years, but once the product is ready for market, the team members involved are confident the product will be a success, and is something that will help their customers practice better dentistry. And that's exactly how they feel about Imprint 4.

"The Imprint 4 portfolio consists of various materials offering different setting times and viscosities to satisfy all customer preferences and requirements," Dr. Osswald said. "We have only been able to succeed in developing all of these materials in time by a highly motivated team and with all the individuals acting together as one unit."

Why now

In recent years, innovation in impressioning has been mainly attributed to digital impression systems, Dr. Osswald said, something 3M has been involved in with the development of the 3M True Definition Scanner.

Even so, many dentists still use VPS material to take impressions, and that's an area that hasn't seen much of an update, said Mark Cotton, Marketing Manager, Impression Materials. That, combined with the fact they knew dentists wanted a material with faster setting times, drove the team at 3M ESPE to create Imprint 4.



Interested? Circle Product Card No. 81

SPECIAL REPORT

"There hasn't been a wow factor in the VPS impression material business for a long time. Imprint 4 brings the wow factor with the blazing fast intraoral set time while maintaining adequate working time," Cotton said. "Doctors are always looking for ways to decrease procedure time and increase patient comfort. Imprint 4 accomplishes both of these issues. More importantly, this product benefits patients by reducing the time they have to sit in the chair waiting for an impression to be completed. Nothing good can come from having an impression take longer in the mouth."

How it works

The team at 3M ESPE knew dentists and patients wanted an impression material with a faster set time, they just needed to find a way to make it happen. After screening different technologies and approaches, they found adding a self-warming mechanism to accelerate the VPS setting reaction was the best way to achieve a shortened setting time without compromising the working time, said Rüdiger Hampe, R&D Services, Customer Integration.

In this special case, Dr. Osswald said they knew they only needed to accelerate the second half of the setting reaction and that the first half—the working time—should remain unaffected. They made this happen by using an additive that has a tailored reactivity, enabling the self-warming reaction only in the last part of the setting reaction.

"Imprint 4 incorporates new patent pending technology that makes the material warm from within," Cotton said. "Once the material is in the mouth, the material will actively warm up to body temperature (98.6). The warming of the material allows the intraoral setting time to be reduced. The material will never get warmer than 98.6. The active-selfwarming allows Imprint 4 to have a faster set time, while also increasing patient comfort and decreasing procedure time."

Changing the impression material category

While dentists don't have to learn a new technique to use Imprint 4, this new impression material is changing the patient and doctor experience. Reduced set times means less chair time, which leads to happy patients, fewer mistakes and restorations that fit.

Putting Imprint 4 to the test

Before a new product can be brought to market, it needs to be tested in the field. 3M ESPE performed clinical application testing with 300 dentists in the U.S. and Europe, Dr. Farr said. Each dentist received prototype material, which they used for six weeks. These dentists created more than 3,000 impressions with the material and each one sent feedback on what they liked about the product or how it could be improved.

"This is a very important part because, first of all, it gives you confidence that the product performs how it should. We want to make sure it works for the dentists and that they can handle the product in the right way, and that they like the product," Dr. Farr said. "Then we can go back and make changes if needed."

The feedback

The clinicians who have had a chance to use Imprint 4 in their practice, like Dr. Miraglia, love the faster set time and the accurate impressions, Rivas said. It makes impression taking faster, easier and more predictable, and that's something every dentist wants.

"The overall satisfaction rate was very high. The short intraoral setting time, combined with adequate working time, was mentioned as one of the most significant application benefits," Hampe said. "Impression accuracy, including high detail reproduction, was another reason

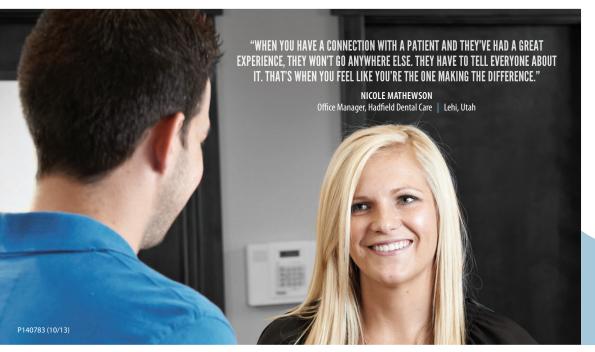
for dentists' overall satisfaction with Imprint 4. As a result of satisfaction, 89% of the testers would recommend Imprint 4 VPS impression material to their colleagues."

Dentists are also pleased with how easy the margins can be read, Dr. Farr said. The new, fresh colors offer a great contrast that makes this possible. Dental lab professionals have also taken note, and are thrilled with the crisp, accurate impressions they're receiving.

Why you should give it a try

There are no new techniques or a learning curve with Imprint 4—it works the same way as the impression material you're using now, Hampe said. But this new impression material offers a faster setting time and more accurate impressions for better fitting restorations, both features that will make impression taking easier, quicker and more successful. It makes the impression-taking procedure less stressful and more comfortable for patients, especially for patients who are gaggers. These are all benefits patients will notice and talk about, and that can only mean good things for your practice.

"The general procedure of impression taking does not change with Imprint 4 as the portfolio offers impression materials for all techniques as well as different viscosities and setting versions," Dr. Osswald said. "But impression taking with Imprint 4 makes the procedure easier, faster and more convenient for the dentist and the patient."



THE POWER TO CHANGE LIVES

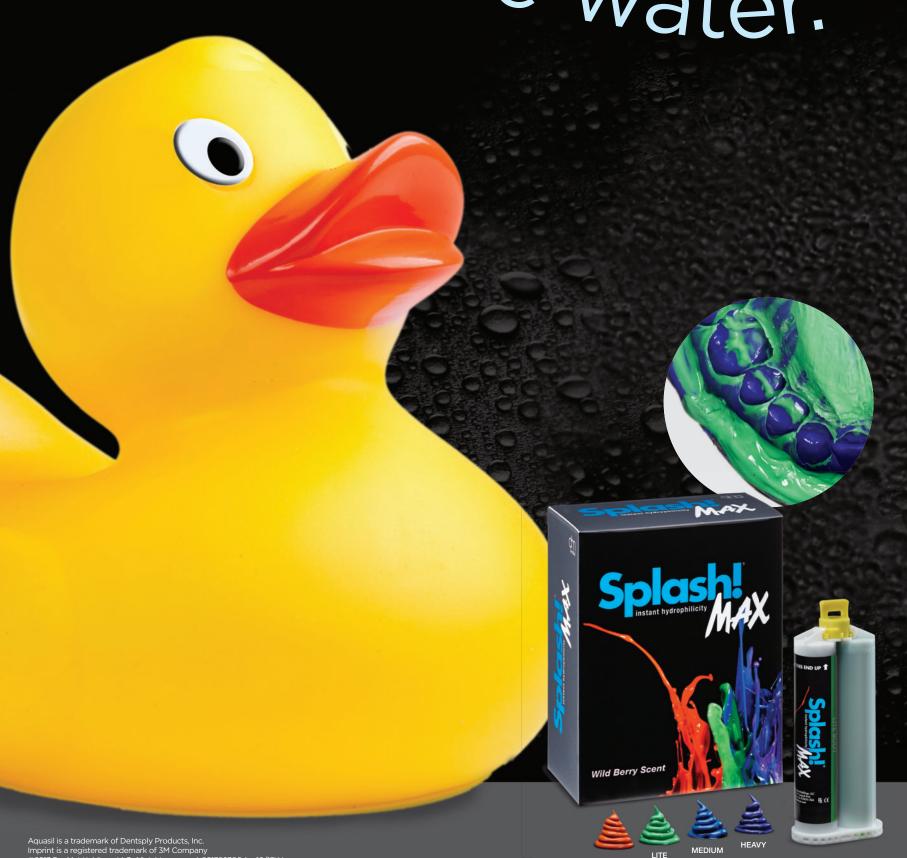


Patterson supports dentistry's ability to positively change lives. If you're ready to lead your patients staff and practice into a new era of dental care contact your Patterson representative today!



Interested? Circle Product Card No. 82

don't be afraid... of a little water.





introducing

Spinstant hydrophilicity

SplashMax is a new super VPS Impression Material that offers Instant Hydrophilicity, because dead-on accuracy is needed when the material first comes in contact with dentition. In independent testing, SplashMax demonstrated the lowest contact angle almost immediately. It's the ultimate in accuracy, reliability, and value!

- Extreme wettability
- Maximum tear strength and elasticity
- Excellent dimensional accuracy
- High contrast colors

The lowest contact angle within seconds!







Special Introductory Offer! Call 1-888-548-3891



IMADETHAT:

Komet USA's F360TM Endodontic System

An interview with COO Warren White about the development of the Komet® F360 endodontic files.



WARREN WHITE CHIEF OPERATING OFFICER

hese days, many general dentists are referring less and opting to treat more speciality cases in-house.

That includes endodontic cases, and that's why Komet USA decided it was time to develop a product that would help general dentists successfully treat these endodontic cases in their practices, addressing common challenges including speed and safety. That product is the F360 root canal preparation system.

Here, COO Warren White tells us about this product's development and how it can help your patients and practice.

Q: What was the objective in the creation and manufacture of the F360 endodontic files?

A: For Komet USA, the F360 root canal preparation system is simply the right product introduced at the right time. Not only has the need for endodontic services expanded in line with demographic shifts, but within the dental community, general practices are now providing almost all types and levels of treatment. For economic reasons, general dentists are referring less to specialists for treatment such as endodontics. General dentists who previously focused exclusively on cosmetic dentistry or family dentistry, for instance, have moved from being generalists with a specialist to being true generalists. They're not referring cases out to specialists as they've done in the past.

Komet's objective with the development of the F360 files was to address the needs of approximately 90 percent of the endo cases general practitioners encounter among their patients. We wanted to appeal to the practice style of U.S. dentists.

 $\mathbf{Q}\text{:}$ What was the nature of the development process?

A: We began with the idea of minimizing the number of files required for endodontic treatment, seeking to offer some distinct advantages over root canal preparation systems already on the market. Komet developed the F360 file with a unique S-shaped cross-section, which makes the file exceptionally

sharp and strong yet flexible. This development, in turn, provides several inherent advantages, including exceptional speed and efficiency, with only two files required for most root canal preparations.

Q: Is there a specific aspect of the product of which you are particularly proud?

A: We're proud of the fact Komet can quickly respond to market needs, and I'm personally proud of the Komet R&D group that addressed these needs. The F360 files are constructed of NiTi, which has been around for years. The development of the S-shaped cross-section, however, has been a game-changer, an advancement in design technology that dramatically reduces the number of files required for preparation procedures. This revolutionary change affects speed and simplicity for faster, easier endo preps.

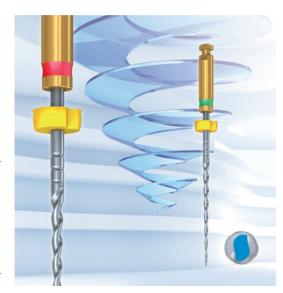
Six months ago, at the early stages of the marketing program, we needed a banner headline to describe the product. After a great deal of consideration, we came up with "Undeniably Simple." This phrase represents the advancement that F360 files bring to endodontic treatment. Use of the files doesn't demand a change of technique, and these rotary-operated files require only one speed and one torque level for all the instruments. In short, "Undeniably Simple" says it all.

Q: Why did Komet decide to expand its presence in a very competitive endodontic market with the F360 launch?

A: Komet has been in the endo-instrument business for many years, producing, among other items, stainless steel hand files. Our traditional K-Files and Hedstrom files, for instance, have long been successfully employed for endo treatment and continue their usefulness and popularity.

Komet is a worldwide leader in powered (rotary) instrumentation, and the F360 files are a logical extension of our product line. After six years in the U.S. rotary instrument market, Komet was ready to introduce the right file system to meet the needs of a specific market. We have the existing technology in other markets and sought to launch a product that was Americanized and appealed to the general dentist.

Looking at current trends in restorative dentistry involving the increasing use of esthetic, high-strength-ceramic restorations (zirconium dioxide, for example), Komet provides the instruments to effectively work on the newer, popular, durable materials and the instruments that simplify root canal access through the restorations. As we continually work to better integrate our product line, the addition of the F360 endo files brings us almost full-circle. ●



Komet USA LLC

Komet USA F360™ endodontic preparation files are designed to address the increasing number of root canal treatments now performed in U.S. general dental practices, looking to meet the challenges of speed, ease of use, economy and safety by providing high-performance, reliable instrumentation. Komet's R&D department took this vision and designed files with a double-S cross section for efficient, mechanical cleaning and shaping of the root canal, with only two files required for most preparations. The pre-sterilized NiTi files also feature a thin instrument core, providing exceptional flexibility while minimizing preparation errors such as canal transportation, zipping and ledging.

CALL: 800-208-1630 CLICK: kometusa.com CIRCLE: RS NO. 84





Turbo Temp 3 provides a 10:1 stronger, faster setting and smoother Anishing formula for provisional restoration while maintaining a very polished look and feel. Easy to trim, very accurate and providing a precise At, Turbo Temp 3 is highly recommended by dentists and patients alike who boast its ease of use and esthetic appeal. Now priced up to 30% less than similar quality materials.

- 10:1 Stronger Formula
- Stain & Fracture Resistant
- Polishes Nice & Smooth
- Available in Multiple Shades
- Free Gun Conversion Slider
 Interested? Circle Product Card No. 85







Visit our website or call us today at 800-827-7940 to ⊠nd out more or contact your dealer for purchase



IMADETHAT:

3Shape's TRIOS® Color Digital Impression Solution

An Interview with Tais Clausen, co-founder and CTO of 3Shape.

Compiled by RENEE KNIGHT



TAIS CLAUSEN
CO-FOUNDER AND
CHIEFTECHNOLOGY
OFFICER

ince its release, the 3 Shape TRIOS® Color has fascinated many dental professionals with its high performance and ability to create realistic and lifelike impressions with exceptionally natural coloration of both teeth and gingiva.

Just months later, the 3Shape TRIOS® Color is being used successfully in dental clinics worldwide. Here, 3Shape co-founder and Chief Technology Officer Tais Clausen talks about the product's development and the key features that make it different.

Q: What drove 3Shape to embark on making an intraoral scanner?

A: After years in the dental lab segment, we have accumulated a strong combined-expertise within optics, electronics, fine mechanics and software. Combined with our vast knowledge about the dental industry, this made us perfectly geared to create the best intraoral solution for digital impression-taking. We saw many things in current solutions we felt we could improve. Not only technology and performance-wise—but also in terms of the solution concept and how digital technologies could benefit dentists. Here we could apply our years of experience within dentistry and CAD/CAM solutions.

We saw how intraoral scanning and CAD/CAM solutions in labs could be tied together in complete digital workflows aided by digital communication—something other solutions did not focus on. We developed advanced scan workflows matched to dedicated CAD workflows. The concept allows dentists to enjoy new clinical possibilities and offer patients a broad range of indications and materials.

Q: What were the biggest challenges?

A: We wanted to make a solution that helped dentists daily. It was important to make it comfortable for the patient as well as easy for the doctor to use. We also focused on creating a scanner that was both fast and accurate. We performed clinical evaluations and asked patients and doctors for their opinions. Most patients found the experience much more comfortable than silicon impressions. Doctors reported they saved time and achieved better fits. We wanted to introduce new levels of performance for intraoral scanning. To achieve the speed and accuracy, we had to develop our own special camera, and thus the TRIOS® camera is custom-made and generates more than 3,000 images per second.

Q: What features are you most proud of?

A: We are proud of many features. Our Real-Color technology is an amazing innovation. The natural looking colors of our scans always astound those that see them. Some doctors even use TRIOS® Color scans as a replacement for intraoral photographs.

With TRIOS®, it's easy for doctors to get great scans within minutes. There is no need to hold the scanner at a special distance or angle; the scanner transmits a sound that guides the doctor.

We offer the TRIOS® in various configurations to match individual clinic needs. The TRIOS® Cart is a single equipment unit with built-in touchscreen and PC. The POD offers optimal mobility and flexibility for clinics with limited space. We offer both a Standard and TRIOS® Color solution.

TRIOS® is spray- and powder-free, ergonomically designed, and contains awide range of tools to clinically validate the impression.

Q: How does it make a dentist's life better?

A: Compared to conventional impressiontaking, intraoral scanning introduces many benefits. One of the most important advantages is the improved and consistent



3Shape

3Shape TRIOS® Color is built on 3Shape's Ultrafast Optical Sectioning™ and RealColor™ technologies. TRIOS® allows doctors to scan for an extensive range of indications—including crowns, bridges, inlays, onlays, veneers, post & core, orthodontics and customized abutments with emergence profile capture. The system's built-in Communicate™ software lets doctors and labs interact directly to exchange case information, 3D designs, 2D treatment previews and comments.

As an integral part of every TRIOS® system, 3Shape offers yearly software upgrades to keep the system ever-strong with new features and enhanced performance, and back users with an extensive support network and a wide range of different learning channels. 3Shape TRIOS® Color was recently awarded the Pride Institute's "Best of Class" 2013 Technology Honor, for its unique market-differentiating characteristics and the high value it creates for dentists.

CALL: 908-867-0144
CLICK: 3Shapedental.com
CIRCLE: RS NO. 86

SCAN-



impression accuracy facilitated by digital capture. The accuracy provided by a digital impression is inherited all along the workflow chain—starting from the clinic, through design in the lab, and on to final manufacturing. High accuracy from the start results in better fits, reduced grinding and fewer adjustments during seating.

The digital method makes impression-taking more convenient, fast and easy; there are no impression materials and mess involved, and the dentist saves costs on materials and shipping. Patients also have a better experience. Digital impression-taking is quick without the usual discomforts caused by impression substances in the mouth. The method helps reduce overall chair time.

Q: How does TRIOS® return the investment?

A: The technology provides a range of savings such as impression materials, trays, shipping costs. Because doctors get back a high rate of accurate restorations, they save valuable time. We did a study comparing analog and digital impressions. Our records show crowns made with TRIOS® took less time to seat than crowns designed from physical impressions. Both patient comfort, and the clinic's image as hightech, are hard to put a price tag on. But both could bring more business to the clinic.



IMADETHAT:

Providing value beyond products

In 2012, Pentron asked their customers what they needed most—and they listened. The result? Pentron Strada.

by ryan hamm



ASSOCIATE PRODUCT MANAGER, PENTRON

entron has long been a leading manufacturer and innovator in the dental space, offering a wide array of materials such as flowable composites, impression materials, and cements. But over the last few years, they dug a little deeper in an effort to discover what, exactly, their customers felt was missing in the dental industry. The answer they got: clinicians wanted help with education, for their patients, for their staff, and for themselves. And so, in the same spirit that led to breakthroughs in material technology, Pentron began to create a new way to offer dentists free and comprehensive educational resources.

The solution? Pentron Strada.

Pentron Strada is an online resource offering information, news and education to clinicians and their patients. The site contains blogs written by working dentists, richly illustrated and content-packed infographics containing information for both clinician and patient, helpful business management suggestions, and an aggregated news section that pulls together the most important dentistry news in real time.

We recently spoke with Aimee Chemente, Associate Product Manager at Pentron, about the reasoning behind Pentron Strada, the surprises and challenges of the website, and how Pentron hopes to continue meeting clinicians' needs in the years to come.

Q: What led Pentron to launch Pentron Strada? What were you hearing from your customers that made you decide to create this website?

A: Pentron has been around for more than 40 years and we've long been known for

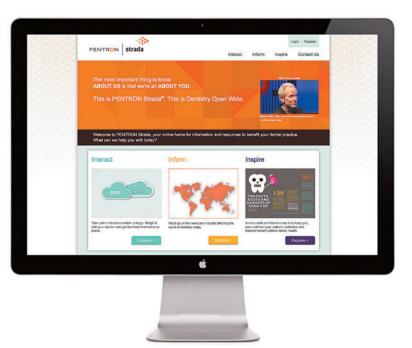
developing dental restoratives of great quality at a very fair price. In 2012, we asked our customers what they wanted—not just in terms of products, but in terms of their practice operations as well. One thing we heard over and over again from dentists was that one of the hardest things to get hold of as a dentist was up-to-date education materials, both in terms of CE and patient education.

Historically, most of the educational content out there you have had to pay for, so we started brainstorming as to how we might be able to get useful, educational content to our customers, something that genuinely goes beyond the value of great products.

Pentron Strada is designed particularly with Pentron customers in mind, but it's not something that is limited to that audience. It is intended as an open, non-commercial resource that any dentist out there can find useful and can easily access. We set to work creating a content-rich website that is interactive and ever-changing. We have some eye-catching infographics and other printable content accessible on Pentron Strada, too—and visitors can print the items they want to hang on their walls or share with patients.

Q: What has been the most challenging thing as you've been updating and refining

A: When we started Pentron Strada, we set the goal to take all feedback we get from dentists into consideration. What we found was that different doctors wanted different things, so the challenge has been balancing this. But prioritizing this feedback and figuring out what we can do to help is at the heart of why we created Pentron Strada in the first place.



Pentron

CALL: 855-748-2964 CLICK: pentronstrada.com CIRCLE: RS NO. 88



Q: What has been the most surprising thing to you about Pentron Strada?

A: I think there are actually two surprising things: the feedback and the comments. We have made it really easy for a person to contact us and provide feedback. We've heard consistently positive things—the feedback we've had has been of the "this is great" or "I really like this. Can I share it on my website or Facebook page?" We were also pleasantly surprised at just how people want to use the infographics on Pentron Strada. When we first created the infographics, we viewed it as an entertaining way to share relevant information. Then we started getting request after request asking, "Can we put this on our website?" That wasn't something we specifically expected. We had hoped dentists would

share them with patients by printing them out—and that is happening as well—but they're actively posting them on their Facebook pages, and that's a pleasant surprise.

Q: How has Pentron changed or evolved the site with the feedback you've gotten from users?

A: The biggest thing is making it easier to share content from the website. What's happening is, in a year from now, you're going to see more of everything that is there now. The poll section has been really interesting—we've gotten some great feedback on the questions. At the end of the day, the goal is, "How can we assist the doctor in communicating with patients and staff?" It's all about providing more value to our customers beyond great products. •





Members get in for free!

The Chicago Dental Society
offers free Midwinter Meeting
registration to member
dentists. Even if you do not live
in the Chicago area, you can
still join as an associate
member. Learn more at

http://on.cds.org/mbrDPR.

*Does not include course fees or special events tickets.

Come to Chicago for **THREE DAYS OF THE BEST** in lectures, demonstrations, hands-on participation courses and commercials exhibits.

Registration is just around the corner. Avoid lines, guarantee the courses you want and save money by registering early. Registration begins Nov. 1 at http://on.cds.org/2014dpr.

149th midwinter meeting CHICAGO DENTAL SOCIETY The Respected Leader in Scientific Dental Meetings SM february 20 - 22, 2014

IMADETHAT:

CAO Group's Precise® SHP

An interview with Densen Cao, President and CEO of CAO Group Inc., about the development process behind the Precise SHP Diode Laser and iPod touch.

Compiled by STAN GOFF



DENSEN CAOPRESIDENT/CEO,
CAO GROUP INC.

he Precise SHP Diode Laser System's merger of diode laser technology with the operating system of an Apple iPod touch was designed to enhance everyday dental procedures with real-time tech support.

Here Densen Cao, the President and CEO of CAO Group Inc., tells DPR about the development process behind this technology.

Q: What was your role in Precise SHP's development?

DC: My role in the development of the Precise SHP was really anticipating the next step in the evolution of diode laser technology, which I believed to be centered around expanding the adoption of diode lasers in dentistry and increased communication with, and support of, practitioners. This vision for the next generation diode laser led me to the idea of using the iPod touch as the "command center" of the laser. With the iPod touch technology already in place, it was just a matter of pairing the two to create a state-of-the-art diode laser system.

Q: What was the idea behind this product and what problems did it solve?

DC: Pairing an iPod touch with a diode laser addresses a number of issues. One, from a development standpoint, the iPod touch already had the touch screen and communication features so development time was improved. Two, once a diode laser is purchased there is no opportunity to upgrade the system as dentistry continues to progress in applications of diode lasers. The iPod touch "command center" always

can be updated through Apple Apps with new procedures, program upgrades and other improvements that keep it on the cutting edge long after it has been purchased. Three, the iPod touch's communication capability enables the practitioner direct access to clinical, technical and training support through FaceTime and demonstration videos. No other diode laser system can provide that level of support.

Q: How long was the development process?

DC: It took us more than three years to develop the Precise SHP. Pairing an Apple device with the complexities of a diode laser can be challenging with all the changes and updates associated with a consumer electronic product like an Apple iPod touch. For example, when Apple changed the connector to all of their hand held devices, we had to change the connector on the laser to ensure it was compatible with the latest version of the iPod touch.

Q: What were the main challenges?

DC: There were many challenges in developing this product, for example, technical, regulation compliance, safety, etcetera. The main challenge was to bring together a consumer product with a medical device and gain FDA approval for various procedures. Because this had never been done before, the FDA gave the Precise SHP extra examinations to ensure its reliability, efficacy and safety as a class IV medical device. As part of compliance, we have to work with Apple constantly to ensure we met all their requirements to incorporate an Apple product into a medical device.

Q: What feedback have you received?

DC: We have received great feedback since its introduction. Your readers have voted it one of the top 50 technology products. Dentists doing pre-launch evaluations have commented on the ease of operating the laser with its 21 procedural presets for the most common dental procedures. They liked the iPod touch display stand that mounts on the handpiece rack for convenient control of the laser and easy viewing of the iPod touch screen. They were also impressed with its versatility beyond soft tissue surgical procedures including pain relief treatment and in-office teeth whitening. First-time diode laser users indicated their familiarity with the Apple iPod touch and its intuitive communication platform boosted their confidence in using a diode laser system.

Q: What features are you most proud of?

DC: I would say the best feature is the iPod touch's full operational control of the laser and its interactive communication capability with customers. The iPod touch technology provides the clinician access to a variety of communication tools. Wifi connectivity enables the use of FaceTime to connect with clinical and technical support. Training videos and procedure demonstrations can be instantly accessed on the iPod touch. The Precise SHP Laser App can be updated with enhancements,



PRECISE

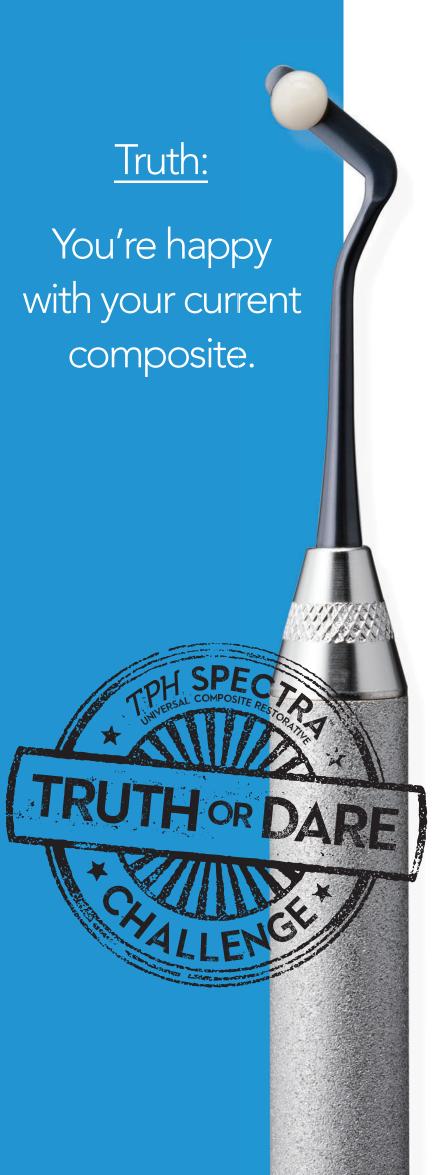
The new Precise® SHP Diode Laser System pairs advanced laser technology with the cutting-edge operating system of an iPod touch. The Precise SHP Diode Laser system offers live customer support through FaceTime™, unlimited updates and instant access to training videos and laser procedure demonstrations.

CALL: 877-877-9778 CLICK: preciselasers.com CIRCLE: RS NO. 90 SCAN:



new procedures, videos and the latest clinical and customer information through the Apple App Store. The Bluetooth connection between the laser unit and the iPod touch allows the iPod touch to be conveniently located away from the laser unit with full control. lacktriangle





Dare:

Until you try ours.

Your composite probably isn't top-of-mind.

That's why we're *daring* dentists nationwide to try

TPH Spectra™ Restorative.

We'll even let you test it alone by sending you the

"TPH Spectra™ Truth or Dare Challenge"

in the mail. No reps. No pressure.

Just be honest with your composite.

You may be surprised at the results.

Request your self-led Truth or Dare Challenge Kit today, plus watch real dentists be daring at

www.TPHSpectra.com.







DENTSPLY Caulk's TPH Spectra

The Catapult Group presents its review on this universal composite.

by DR. SAM SIMOS



TPH SPECTRA

TPH Spectra $^{\text{TM}}$ Universal Composite provides the handling preference of choice with TPH Spectra LV (Low Viscosity) and TPH Spectra HV (High Viscosity) that is spreadable or packable. The new shading system for the composite offers seven VITA-based shades that cover the entire VITA shade system. This reduction in shades allows for carrying fewer inventories in the office and is said to provide confidence that the chameleon shading ability of the composite will blend it in to the surrounding tooth structure making the restoration indistinguishable.



CIRCLE: RS NO. 92





ABOUT CATAPULT

Catapult is an organization that consists of more than 50 clinicians spread throughout Canada and the United States. As a company, manufacturers pay a fee for their product to be evaluated and what we deliver are truthful, independent answers from surveys that we develop with them. We have had many products that have either had to be altered before hitting the market or simply never arrived because of our openly honest evaluations. In this way, Catapult assists the manufacturer to avoid potentially releasing a faulty product, or simply a product that needs refinement. Lastly our clients are omnipresent in the industry, small to large, no favoritism, simply reviewing the latest products in our practices.

In most practices, composite is commonly used as a restorative material in both anterior and posterior restorations. In a recent survey by the Catapult Group, more than 75% of dentists polled use three or more different composite systems to satisfy different challenges posed when placing these restorations. Currently, different composite shades have been necessary to provide a lifelike optical appearance of natural tooth structure to create a structurally sound restoration for functional stability and a pleasing esthetic result.^{2,4} This article will introduce Dentsply Caulk's new TPH Spectra Universal composite through Catapult Group's evaluation and a photographed case study.

Techniques for composite placement differ when trying to create a lifelike appearance. The goal of any technique is to enhance the composite's optics so the operator can create opacities, translucencies, or subtle chroma and value differences within the enamel.

Layering technique

The layering technique is the most commonly used technique to achieve this result. While many have mastered this technique, it remains a difficult, time consuming, and complex technique that requires both an artistic eye, a large amount of composite inventory, and a knowledge of the shades used to create a lifelike result. Ironically, the advancements and sophistication in composite technology, designed to give better/easier results, have instead made it more difficult, in many instances, for the clinician to make the correct shade decisions. This leads to operators giving up on the layering technique, opting instead for materials that are "simpler" or more "chameleon-like." 1,3

Closing the gaps

Dentsply Caulk's new TPH Spectra[™] universal composite builds on the trusted TPH brand that has been the gold standard in composites for the last 20 years. TPH Spectra[™] is the only composite offered

in two viscosities: high viscosity and low viscosity, depending on your preference for handling. TPH Spectra™ also incorporates a unique optic system that allows for simplified shading by providing seven of the most essential tooth shades that cover the entire VITA spectrum. TPH Spectra™ also offers a unique shade guide that leads the clinician to the correct composite shade. All of this helps save time when placing restorations.

Putting this new composite to the test, a 35-year-old male presented with spaces between tooth Nos. 7, 8 and 9 (Fig. 1). He wanted the spaces closed. Because he speaks in front of large audiences, a natural cosmetic result was important to him. A factor to consider when selecting a shade and technique is the varying degree of translucency and opacity within his teeth. When taking the shade with the TPH Spectra™ shade guide (Fig. 4), we noted both shades B1 and A1 were very close to the shade of the tooth (Figs. 2 and 3). The simplicity of the system allows the clinician to pick one









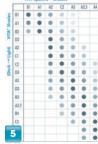








Fig. 1 A 35-year-old male presented with spaces between tooth Nos. 7, 8 and 9.

Figs. 2 and 3 Shades B1 and A1 are very close to the shade of the tooth.

Fig. 4 The Spectra shade guide.

Fig. 5 The simplicity of the system allows the clinician to pick one of the shades from the supplied shade matching guide.

Fig. 6 Shade A1 was used on the central incisors and B1 on the lateral incisor using a non-layering technique.

Fig. 7 After placement and shaping of the material, polishing with an Enhance finishing disc was preformed.

Fig. 8 The final result.

"The resulting translucencies, opacities and subtle chroma value of TPH Spectra composite were excellent and, best of all, the patient loved the result and could not believe how little time the entire procedure took to complete."

of the shades from the supplied shade matching guide (**Fig** 5). In this case, shade A1 was selected because the overall appearance of the tooth matched the A1 tab better.

It should be noted that either of the shades (according to the shade matching guide) could be used. To test the system, I chose to use A1 on the central incisors and B1 on the lateral incisor using a non-layering technique (Fig. 6). After placing and shaping the material, polishing with an Enhance® finishing (DENTSPLY Caulk) disc was performed (Fig. 7). Immediate post placement results were captured with photos and evaluated (Fig. 8).

The resulting translucencies, opacities, and subtle chroma and value of the TPH Spectra composite were excellent and, best of all, the patient loved the result and could not believe how little time the entire procedure took to complete (about 40 minutes).

Catapult Group evaluation

Overall, TPH Spectra[™] was very well received by Catapult's evaluators. They seem to be very discriminating in that they use a wide variety of systems (more than 75% use three or more systems) to meet their personal preferences and patient needs.

Eighty-six percent rated this product in the excellent/good category, while 77% would incorporate TPH Spectra™ into their posterior composite practice and 71% into their anterior composite practice. An overwhelming 90% of evaluators would recommend TPH Spectra™ to their colleagues.

The top three reasons evaluators liked this material over their current system were:

- 1. Chameleon effect
- $2.\,Simplified\,shade\,system$
- 3. Overall handling and less stickiness to instruments

Conclusion

Results drive our material decisions. Control over the entire restorative process is crucial. Employing a material that gives you command over shade selection to account for a wide range of varying opacities and translucencies, as well as high polishability and sculptability, are essential for a great result every time.

REFERENCES

- 1. Beddis, H. P. and P. J. Nixon (2012). "Layering composites for ultimate aesthetics in direct restorations." Dent Update 39(9): 630-632, 634-636.
- 2. Fahl, N., Jr. (2000). "Achieving ultimate anterior esthetics with a new microhybrid composite." Compend Contin Educ Dent Suppl(26): 4-13; quiz 26.
- 3. Devoto, W., M. Saracinelli, et al. (2010). "Composite in every-day practice: how to choose the right material and simplify application techniques in the anterior teeth." Eur J Esthet Dent 5(1): 102-124.
- 4. Franco, E. B., C. E. Francischone, et al. (2007). "Reproducing the natural aspects of dental tissues with resin composites in proximoincisal restorations." Quintessence Int 38(6): 505-510.
- 5. Raghu, R. and R. Srinivasan (2011). "Optimizing tooth form with direct posterior composite restorations." J Conserv Dent 14(4): 330-336.

"Every dentist should consider using the VELscope for every oral examination."

One clinician's view on VELscope VX, distributed by DenMat. Compiled by RENEE KNIGHT

VELscope VX

The VELscope VX® enhanced oral assessment system is said to be effective, minimally invasive and can be seamlessly implemented in a patient's routine dental check-ups. The system's blue-spectrum light causes the soft tissues of the mouth to naturally fluoresce. The device can detect a wide variety of abnormalities so they can be discovered before they are visible to the unassisted eye.

DenMat

800-4-DENMAT denmat.com CIRCLE: RS NO. 93

SCAN:





DR. JEAN C. WUNewport Beach, Calif.
PRACTICING SINCE 1990

even years ago Dr Jean Wu changed the way her practice does oral cancer examinations.

Instead of relying on the conventional exam alone, Dr. Wu also uses the VELscope oral cancer detection aid to ensure every patient receives a thorough examination. As a dentist, she feels it is her responsibility to provide this to her patients, and she also knows this supplemental screening can save lives.

How did you first hear about the VELscope? What made you decide you wanted to incorporate it into your practice?

Steve Semmelmayer, DenMat's CEO, introduced the technology to our office and we immediately felt it was important to provide this service to our patients. It was a non-invasive method of screening for oral cancer that was easy to implement, user-friendly and painless for the patient.

What benefits does it bring to your patients?

There are no traumatic brushes or messy solutions for patients to endure, and early detection of dysplasia and soft tissue pathology can save lives.

What benefits does it bring to your practice?

Having the latest technology really changes the way we do our oral cancer examinations and demonstrates to our patients we are always striving to improve our methodology and be as effective as possible with our care.

Why would you encourage other dentists to use the VELscope in their practice?

It is our responsibility to complete a thorough oral cancer evaluation at every hygiene recall and re-examination, and the VELscope provides us with the reassurance we are adding an additional dimension to the visual and tactile examination. With the VELscope, we can better differenti-

ate between the normal appearance and the abnormal and document what we see with the camera. It is an effective way to communicate with other physicians, as well as patients.

How important is it for dentists to screen for oral cancer?

It is critical as part of our comprehensive care and health management. Patients see their dentist more than twice a year on average, and physicians may be lucky to see their patients once a year. As dentists, we understand the oral anatomy more intimately than our medical colleagues and the oral cavity is our area of responsibility.

Is there anything else you'd like to say about the VELscope's benefits?

The VELscope is a simple tool to supplement a conventional oral cancer evaluation. Every dentist should consider using the VELscope for every oral examination. We owe it to our patients to use every technology available to us, to improve their quality of life and even save lives.



people are unpredictable...

your temporary material shouldn't be.

New Perfectemp10, is a premium multi-functional acrylic composite temporary crown and bridge material that delivers the strength that patients need at a competitive price that dentists desire.

Perfectemp10 features

- 10:1 automix formulation
- Superior strength
- Natural looking luster
- Cartridge or syringe
- 5 Vita shades



Temporary Crown & Bridge Material





(\$/50ml Cartridge)

Special Introductory Offer! Call Now 1-888-548-3615

www.denmat.com



"... it takes the guesswork and the misconceptions out of the treatment equation..."

One clinician's take on the DEXIS® Digital Imaging System.

Compiled by STAN GOFF



GERALD BITTNER, JR., DDS San Jose, Calif.

PRACTICING SINCE 1985

DEXIS Digital Imaging System

The DEXIS® Platinum sensor incorporates

PureImage™ technology for optimal image clarity;

TrueComfort™ design for comfortable, precise positioning; and highly portable direct USB functionality.

DEXIS® Imaging Suite is a feature-rich imaging program that allows for fast workflow and integration with pans, cameras, select 3D products, and its companion iPad® app, DEXIS go®. Together, the sensor and the software offer a positive radiographic experience for both the clinician and the patient.

DEXIS

888-883-3947 dexis.com CIRCLE: RS NO. 95

SCAN:



What first brought you to DEXIS?

One of my biggest challenges was getting the hygienists and assistants to "buyin" to the switch from traditional film to digital. This didn't happen as quickly as I would have liked, because we started out with a different brand of digital x-ray. After a frustrating time with another type of digital system loaded with issues, I gave up 10 of their sensors to move to DEXIS. The team loved it. When I present a case, the patient needs to have a high opinion of my abilities. I don't want imaging glitches that could cause me to backpedal trying to save the case rather than going forward with it. I get great performance with DEXIS.

How has DEXIS given you a good ROI over the years?

It has been nice to see the positive effects on my staff and patients. It really contributes to public relations and makes my whole team look good. The assistants don't have the embarrassment of retaking an x-ray and keeping the patient waiting while it develops. With the speed of digital, a retake, when needed, can be done almost instantly.

In my opinion, having a digital system helps make diagnosis

easier. To start, I am not trying to look at tiny film x-ray with a magnifying glass. Over the years we have gone from 13-inch to 20+-inch screens making treatment planning, which I consider to be a joint effort between me and my patient, even easier. Now, when I show them a cause for concern on their DEXIS x-rays and on a 20-inch screen, they askme, "Why don't we fix this?" I use ClearVu™ most of the time to enhance the contrast and add clarity to x-rays—an especially remarkable image enhancement tool. When I work with a cosmetic case, which is a true love in my practice, DEXIS plays a major part in presentation. I can display all their x-rays and digital photographs, and even create and display a graphic of the final result. It takes the guesswork and the misconceptions out of the treatment equation, and makes the patient feel comfortable about the whole process. With DEXIS, my patients understand the need for compliance, and we achieve more case acceptance.

How has your DEXIS system changed over the years?

I have been through a lot of different imaging programs from the original DICOM system 15 years ago till now, and was even a beta tester for DEXIS Imaging Suite. This new version of software and the new Platinum sensor were great updates to this already great system. Now with DEXIS go®, we have the option of using an iPad® to move about the office and share images. But it's not just the upgrades from DEXIS that has impacted my practice—it's the change from the other systems to DEXIS. The company has done a good job of integrating all of its imaging tools so that I can efficiently get the results that I want without feeling like I have to become a computer program editor, which was the case with many of my old imaging programs. I want to spend my time doing dentistry, not "computing." DEXIS lets me do this.

What would you say to doctors still using film?

To those dentists still using film, I would ask, "Why not use something quicker, more effective for the patient and better for the environment?" My patients and my office deserve the quality that we get with DEXIS. Why not go with the best?

VITA Easyshade® Advance 4.0 – Analog goes digital.

Determine and verify tooth shades with digital precision.





VITA shade, VITA made.



At VITA, we see progress as self-improvement. With this in mind, the time has come to leave shade tabs behind and move ahead with the VITA Easyshade Advance 4.0. Whether it's the VITA SYSTEM 3D-MASTER® or VITA classical A1–D4, this digital measuring device determines and verifies all tooth shades

in a matter of seconds and with absolute precision. Automatic activation, Bluetooth®, bleaching mode and a whole range of other innovations guarantee maximum precision for even greater reliability and comfort.



www.vident.com | 800-828-3839



Contact your Henry Schein representative or call 800.645.6594 + press 1

See just how easy it is to take a digital impression with NEVO at

www.E4D.com/nevodemo

*Certain restrictions apply. Consult your Henry Schein Representative for details.











MORE PRODUCTS TO EDUCATE YOUR PATIENTS ABOUT...

Technique

ACHIEVE A SIMPLER BOND

A step-by-step using BISCO's new bonding system, eCEMENT.



Ó

Technique

CREATE HIGHLY ESTHETIC MONOLITHIC **ZIRCONIA CROWN**

A step-by-step using 3M ESPE's Lava Plus High Translucency Zirconia.



Tech Brief

DENTSPLY MIDWEST'S **MIDWEST AUTOMATE**

A closer look at this automated handpiece maintenance system.







61



Electronic Services

Communication has changed dramatically in the past decade. Social media, such as Facebook, Twitter, and blogs, are critical for keeping in contact with patients. Reputational Marketing is the new buzzword as many people now go online to read dentist reviews before they make the

Demandforce











Cone Beam CT or 3D imaging systems are significantly more accurate than film-based systems and can reduce radiation by up to 95%. Primary benefits include presurgical implant treatment planning, bone quality and viewing both arches simultaneously.







PLANMECA®

✓ HENRY SCHEIN®

CHOICES





CAD CAM Technology



From the beginning, D4D involved dental professionals in the development of the E4D system. The result is a product that's easy to use, provides a significant return on investment, and empowers you to create the **EXCLUSIVE PARTNER** beautiful restorations your patients desire.





Over 50% of offices have an intraoral camera because they are lightweight, mobile, and able to fit into tight spaces, like the distal of

















Digital Impressions

Digital impressions represent a paradigm shift in how practices take impressions. Digital scans ensure predictable seating and increased patient comfort. These new systems take a digital impression with a device that looks like an intraoral camera, and then send the data directly to the labs.

зshape⊳







TechCentral

Computer Solutions & Support







Finished Restoration



New materials, coupled with major advancements in digital technology, now present significant improvements in the final restoration and patient experience. All ceramic restorations like Zirlux Full Contour Zirconia, IPS e.max[®] lithium disilicate and Lava™ Ultimate are continuing to take the industry

by storm thanks to their high translucency, superior aesthetics, high strength and low wear for the patient.

Digital Panoramic X-rays

These systems scan the entire mouth and quickly produce excellent diagnostic images allowing patients to better understand the process. Some offices have even replaced their standard full-mouth series with pans and bitewings augmented with PAs.













Digital Sensors



The benefits and ROI of digital sensors are clear. Sensors eliminate the need for film, chemicals, processor cleaning supplies, repairs, mounts, and duplicating film, and they reduce labor costs.











From the Front Office to the Treatment Room and every touch-point in between, Henry Schein has the solutions you need to connect your practice technologies. The size of your practice, your budget, and your patients' needs are all important to the solutions required to increase workflow and enhance efficiency.

With your success in mind, let us help you determine which products and technologies will advance patient care and your practice.

Contact your Henry Schein Sales Consultant for details.



IMPLANTS AND THE ROLE WE ALL PLAY FOR OUR PATIENTS' HEALTH AND HAPPINESS

As dental implants continue to grow in popularity and usage, it's important to take a step back and look at the importance of education and trust.

by dr. kenneth w.m. judy, dds, facd, ficd



DR. JUDY, CO-CHAIRMAN OF THE ICOI, EXPLAINS HOW EDUCATION AND A TEAM APPROACH ARE CRITICAL WHEN IT COMES TO IMPLANTS.

Continued on page 68

A letter from Jim Glidewell, President/CEO of Glidewell Laboratories



Dear Doctor,

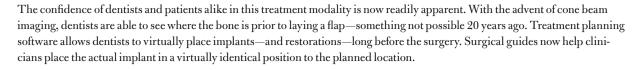
When we first started making restorations over implants more than 20 years ago, the industry's understanding of bone biology was limited, grafting techniques had not yet evolved, and implants were placed where the bone was, often having little relation to where the teeth needed to be. From a laboratory perspective, this often meant that restorations were elaborate designs having superstructures fastened to substructures with screws that threaded into other screws. These restorations typically came with a hefty price tag, and were delivered over multiple appointments.

Today, of course, things have changed. What was once a complicated and clumsy treatment option is now a more predictable and routine standard of care, and most general dentists restore dental implants as a regular part of their daily practice.

implant companies boast osseointegration success rates of more than 95 percent, and through a combination of educational efforts and rapidly advancing technology, the implant landscape has changed dramatically.

Today we see the implant market has evolved to a place where most

ann R Stidwall



GLIDEWELL GLIDEWELL SANGER

As the price continues to fall on implant systems and surgical guides, and patient awareness and demand continues to increase, more GPs will begin placing and restoring implants. This will ultimately lead to more patients who can benefit from this type of treatment actually receiving care. We are thrilled to see the number of three-unit bridges fabricated in our laboratory continue to drop, and look forward to the day in which we make our last three-unit bridge. For it will signal the day that enough GPs are offering the service—and it has become affordable enough—that all patients will choose to save their adjacent teeth.

Our company continues to invest in innovation around the implant space, from the production of affordable implant systems and all-inclusive restorative packages, to the development of digital technologies and software that make digital treatment planning and surgical guides financially feasible. Our goal is that implant dentistry becomes as standard as crown-and-bridge, and that digital planning and guided surgery become as common as diagnostic wax-ups before veneers, or BioTemps temporaries prior to final cementation. Implant dentistry might just be the most exciting and technologically advanced area of dentistry, and we look forward to being an integral part of your restorative team, now and in the future!

Sincerely,

Jim Glidewell, CDT President/CEO, Glidewell Laboratories



Glidewell stresses teamwork

Director of Implant Manufacturing at Glidewell shares his thoughts on the evolving world of dental implants. *Compiled by Kevin Henry*



GRANT BULLIS
DIRECTOR OF IMPLANT
MANUFACTURING,
GLIDEWELL
LABORATORIES

Kevin Henry, Group Editorial Director for Dental Products Report, had the chance to sit down with Grant Bullis, director of implant manufacturing for Glidewell Laboratories, and ask him about the state of the implant industry and how his company is making an impact.

Henry: What do you see in the near future with implants?

Bullis: I see a continued move toward "value" implants. I think the premium brands will struggle to gain share. It is increasingly difficult to command premium prices for implants that have very similar features and success rates to value brands. I think implants that show value and offer a complete solution for the practitioner from beginning to end will make a difference.

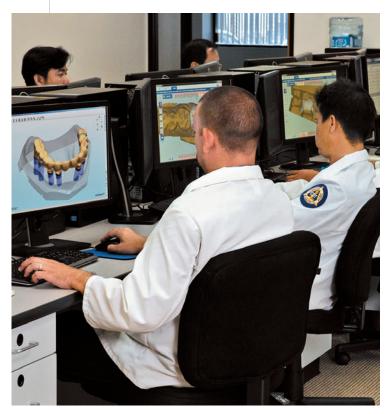
Henry: What is the one stumbling block you still see for dentists to incorporate implants into their practices?

Bullis: I think learning the surgical part is still a little intimidating for some. It requires a different set of skills than crown and bridge and making the transition to feeling equally as comfortable placing implants can be challenging. Many overcome those challenges and the number of GPs placing implants is growing, however, many more choose to refer implant placement out, and that is okay, too. The key is finding a surgeon that is truly restorative driven and has the prosthetic knowledge to set the GP up for success.

Henry: What difference does Glidewell offer in the implant market?

Bullis: We take a prosthetically-driven approach to implant therapy. We start from the desired restoration and work the case backward to implant placement. We make the entire process simpler for the dentist by providing everything needed to replace a missing tooth, from the implant and drills, healing components to the abutment and crown. One package at one price with everything included. Quoting patient fees is predictable and dentists don't have to invest in a large inventory of parts because everything needed for each case is included.

Henry: Talk about the teamwork between the dentist and the lab, including with implant cases. Bullis: Teamwork is very important, whether it's a dentist working with a specialist to place the implant or doing it all himself. The earlier the lab can be involved, the better. The placement of the implants has a direct effect on the prosthetic outcome, and that's where we want to be involved in the process from the beginning. Whether for a surgeon working with a referral network, or a dentist who places his own implants, our Inclusive® system is designed to set the stage of quality restorative outcomes



Teamwork: At Glidewell Laboratories, there's a strong belief that it's critical that dentists, oral surgeons and the laboratory all work together closely.



DR. MICHAEL DITOLLA

When I see a patient who is missing a lower molar and he or

she tells me it has been missing for 20 years, I congratulate that person on a smart decision! The patient looks a little surprised because every other dental team member he or she has come in contact with for the last 20 years has chastised him or her for not having a bridge placed in that space.

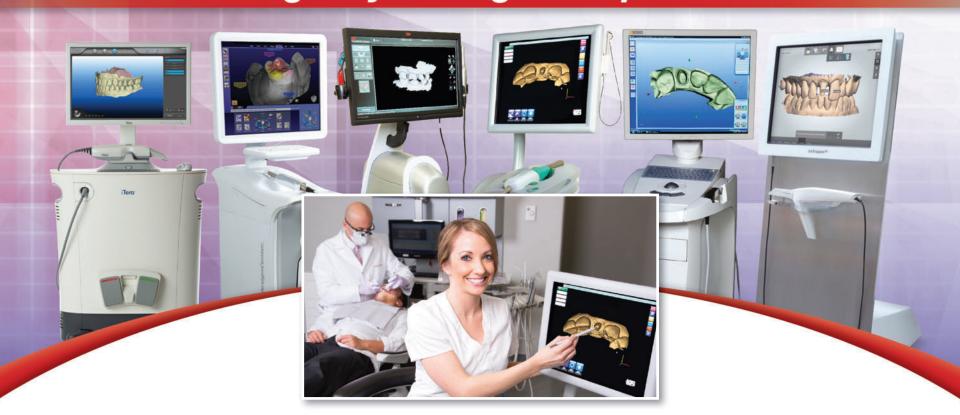
I know that I used to describe what could go wrong in that area as though loss of a lower first molar was the fifthleading cause of death in the United States. Today, patients get a pat on the back and I congratulate them for waiting until now. Why? We are able to implant a replacement tooth in the area, whereas in the past we would have had to grind

their adjacent teeth into little nubs (it's fun to use "patient-speak" when it serves our purposes!).

I'm pretty sure holding out for a more conservative treatment modality was not why this patient procrastinated for 20 years, but shaming hasn't worked, so I am going with the opposite approach. Many patients used to ask, "Why can't we just bond a tooth onto the gum tissue?" This suggested that a single-tooth approach always made more sense to them. Of course not every patient who procrastinated on the bridge will immediately say yes to an implant, but many do.

Try giving your patients a compliment, even if you don't think they deserve it. It just may be the motivation for them to discover why single-tooth implants are superior to three-tooth bridges.

Get extra advantages by sending us your digital impressions



Documented improvement in clinical accuracy compared to conventional elastomeric impressions*

80% reduction in crown returns to lab for margin errors

60% reduction in crown returns to lab for occlusion issues

55% reduction in crown returns to lab for fit issues

30% reduction in overall crown remakes

No inbound impression shipping cost and quicker case turnaround

Your cases are transmitted electronically via the Internet, so you save on the cost of overnight inbound shipping (\$7). Plus, your monolithic BruxZir® Solid Zirconia, IPS e.max®, Obsidian™ lithium silicate ceramic, Inclusive® Custom Abutment or implant case can be fabricated and shipped back to your office in as little as two days.[†]

Save \$20 per unit off the list price

When you transmit a digital impression and request a model-less restoration, we deduct the cost of the model and die work, saving you \$20 off the list price. BruxZir, IPS e.max or Obsidian restorations made via digital impressions and without a model will cost you \$79 per unit instead of \$99. You'll also save \$40 per unit off the \$299 per unit list price of Inclusive Custom Abutments or screw-retained implant crowns.

Send us your next digital impressions and put these benefits to work for your practice!

*Data is based on 123,757 BruxZir crowns manufactured digitally at Glidewell Laboratories through June 2013. †Projected shipping return date for your case should be verified with a Glidewell Laboratories representative.

For more information

800-471-9758

www.glidewelldental.com



Premium Products - Outstanding Value

Continued from page 64

Oral implantology/implant dentistry is a growth area in many aspects worldwide. In the continuum of dental implant care, there are several different players in the field and they all have responsibilities. Sometimes there is an overlap but quite often there is not.

For instance, in the United States, devices and/or materials that are inserted into patients' bodies should be shown to be effective and delivered to practitioners in a sterile manner. We rely on the Food and Drug Administration (FDA) for appropriate protection in this regard. Injectables such as antibiotics, local and general anesthetics, bone morphogenic proteins, bone substitute materials, as well as a plethora of endosteal implants made from different materials and of different designs all must be FDA-approved.

A growing segment of dentistry

At the same time that FDA processes were being developed, the general public was becoming aware of the potential, well-advertised benefits of implants. Today, patients are requesting their dentists to help them with implants. A general understanding of the multiple responsibilities of the various players mentioned above is an appropriate exercise.

As far as *Dental Products Report* (DPR) is concerned, I personally feel the publication serves to help dentists understand all of

the different implants, implantable materials, instruments, x-ray machines, etc., that are necessary for safe implant placement, restoration and maintenance.

What is obvious is that with the across the board professional acceptance of implants, now a concept promoted by the American Dental Association (ADA), almost all of the disciplines of dentistry have become involved. Therefore, an inclusive range of dental products is needed. These products also must be updated and constantly improved. Obviously the commercial success of various products is what is needed to command significant advertising space.

laboratory technicians, as well as an omnibus society that addresses the needs of generalists and specialists of all disciplines of dentistry. We also have members in more than 100 countries and relationships with multiple national implant societies. While this is not a necessity for a well-functioning implant society, especially because of the expenses involved, it is nonetheless an ideal situation. I feel implant societies should behave fraternally, i.e. they should relate to each other and cooperate with each other for the common good. Further, they should support research and education and recognize the professional achievements of their members. As much as possible implant societies also should provide

"...implant societies should also provide certain benefits for their membership at no cost, such as implant glossaries, webinars, generic video clips for educating patients on members' websites, etc."

-Dr. Kenneth Judy

The importance of implant societies

What about implant societies? What are their responsibilities? First and foremost, they must endeavor to educate and to tell us the truth. To pretend implantology began in North America in 1982 is just not true and does not serve the profession. The FDA already had held a Consensus Conference in 1978 and I personally have been placing screw and blade form implants since 1970. Subperiosteal implants were developed in the mid to late 1950s. A number of implants, which were touted as successful and superior to others, with purported strong scientific backing, simply failed. A brief appearance in DPR might have occurred, but the situation was selfcorrecting. However, someone had fooled the FDA first.

Secondly, implant societies are obligated, in my opinion, to teach all members of the dental team. Therefore, the International Congress of Oral Implantologists (ICOI), for example, has an auxiliary division for dental hygienists and dental assistants, a component that focuses on

certain benefits for their membership at no cost, such as implant glossaries, webinars, generic video clips for educating patients on members' websites, etc. The costs of major seminars and new initiatives of any type, especially with an economy as challenging as it is, should be well cost-controlled to encourage participation.

Implant societies also should have outreach programs for researchers, academicians, and even the military. They should support international dental societies such as the Federation Dentaire International (FDI) to promote the unity of our profession and constant interchange of ideas.

Research and education

There are three other activities that can be combined. First, ICOI has had an extremely active Research and Education Foundation, which has contributed several million dollars to various grant and educational projects over the years. Second, using its extensive connections with academic and world-class clinicians, the ICOI over many years has sponsored several Consensus Conferences to address





"The new LODI System offers us a good alternative to o-ball attachments when the use of a narrow diameter implant is desired. I also like the LODI Surgical Kit. It has nifty snap-on Drill Stops and a Torque Wrench that tops out at 70Ncm, which assists in determining the level of primary stability."

Steven H. Pratt, DDS, FAGD, FAAID

"I have placed more than 50
LOCATOR Overdenture Implants
and this system is exactly what I
have been looking for. It is easy to
use with graduating drill diameters
and multiple length drill stops, as
well as paralleling pins for
alignment. My patients are very
happy with their treatment and
I am pleased to no longer hear
them complain that they can lift
their lower denture out with their
tongue like I consistently heard
with o-ball mini systems."

James G. Jenkins, DMD

"I originally tried the LOCATOR Overdenture Implant System because I didn't have enough vertical room with the system I've been using. This implant from ZEST Anchors is perfect for these situations. I'm sure I'll continue to use this implant system."

Joseph A. DeLapa, DDS

YOUR COLLEAGUES LOVE IT. SO WILL YOU.



The LOCATOR® Overdenture Implant (LODI) System.

You and your overdenture patients have grown to love the unique benefits LOCATOR Attachments offer. Until now, when treatment called for a narrow implant, you were left with no choice other than inferior o-ball attachments and o-rings requiring constant replacement. Not any longer; the LODI System offers the best alternative to o-ball mini implants on the market today. These narrow diameter implants are thoughtfully designed with easy to use surgical instrumentation. LODI offers all of the benefits of LOCATOR that you have become accustomed to such as the patented pivot technology, low vertical height and options for retention levels.

Your colleagues are recognizing the benefits of LODI in their practice, isn't it time that you did? Start by trying LODI today, please visit www.zestanchors.com/lodi/21, or call 855.868.LODI (5634).

Courses to learn about the LOCATOR Overdenture Implant System are now available! Please visit WWW.ZESTANCHORS.COM to view course locations.

@2013 ZEST Anchors LLC. All rights reserved. ZEST and LOCATOR are registered trademarks of ZEST IP Holdings, LLC.







Choose the LOCATOR® Overdenture Implant System

It's a fact - denture patients commonly have narrow ridges and will require bone grafting before standard implants can be placed. Many of these patients will decline grafting due to the additional treatment time or cost. For these patients, the new narrow diameter LOCATOR Overdenture Implant (LODI) System may be the perfect fit. Make LODI your new go-to implant for overdenture patients with narrow ridges or limited finances and stop turning away patients who decline grafting. Your referrals will love that LODI features all the benefits of the LOCATOR Attachment system that they prefer, and that all of the restorative components are included.

Discover the benefits that LODI can bring to your practice today by visiting www.zestanchors.com/LODI/21 or calling 855.868.LODI (5634).

©2013 ZEST Anchors LLC. All rights reserved. ZEST and LOCATOR are registered trademarks of ZEST IP Holdings, LLC.





All Inclusive Custom Abutments are manufactured under strict quality control processes by a team with decades of combined industry experience.

42%

of dentists already place dental implants in their practice.

Source: August 2012 ADM Implants Study

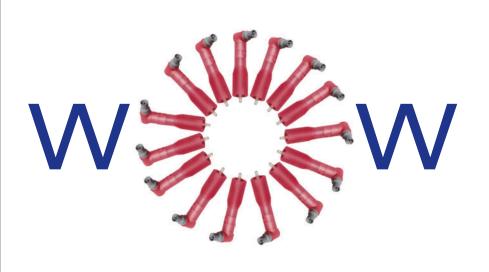
curriculum guidelines or special areas of interest in oral implantology/implant dentistry. Again, we were inspired by the FDA, which held two (almost unheard of) Consensus Conferences relating to our field in 1978 and 1988.

How have times changed? In 1988, we dealt with "Osseointegration in Oral Implantology." In 1990, our Consensus Conference was on "Pre-doctoral Implant Education." In 1991, we addressed "Implant Education in General Practice Residency/Advanced Education in General Dentistry Programs." In 1995, ICOI's Consensus Program was "Oral Implantology/Implant Dentistry for Dental Hygiene Education and Continuing Education for Practicing Dental Hygienists." In 2002,

it was "Vertical Dimension of Occlusion relating to Implants." In 2005, it was "Crown-height Space Guidelines for Implant Dentistry." Our Consensus Conference in 2008 dealt with "Implant Success, Survival and Failure." Our most recent Consensus Conference was in 2012 and dealt with the "Use of Cone Beam Computer Tomography in Implant Dentistry." The titles illustrate how technology and thinking has changed.

The role of dental schools

What is the role of dental schools and how do implant societies relate to them? Relatively recently, the ADA mandated that the specialty programs for periodontics, prosthodontics, and



Presenting the only prophy angle with a 170° oscillating tip.

Our new Oscillating Prophy Angle is the first ergonomically designed angle that provides a 170° back-and-forth rotating motion — enabling continuous contact and pressure on the tooth surface.

- Latex free
- Soft cup
- Quiet, controlled, smooth performance
- Less splatter with pro 2 technology
- 144 per box

GNY Show Special Buy 2, Get 1 FREE!

Stop by booths 3203 and 1415 to get a free sample and to take advantage of our special offer.



The Perfect Balance of Service, Quality and Value.

800.222.1851 | DiatechUSA.com



Changing patients' lives. Building doctors' practices.

Coming to a City Near You! MDI Introductory Certification Course

Learn how 3M[™] ESPE[™] MDI Mini Dental Implants can help offer a solution to patients who may be contra-indicated for conventional implant treatment.

Already placing Minis? Register for an advanced course today!

\$200 OFF Tuition

Register Today by Visiting: 3MESPE.com/ImplantSeminars Enter Promo Code* "DPR200"

*Promo Code "DPR200" only available for 2013 3M ESPE MDI Introductory Courses

For more information or to enroll today visit 3MESPE.com/ImplantSeminars

3M ESPE Customer Care: 1-800-634-2249

Interested? Circle Product Card No.103

3M and ESPE are trademarks of 3M or 3M Deutschland GmbH. Used under license in Canada. © 3M 2013. All rights reserved.

Space is limited. Sign up today!

November 2013

November 2010		
Date	Location	
8	Jackson, MS	
8	Lansing, MI	
8	Las Vegas, NV	
9	LA Area	
15	Austin, TX	
15	Tampa, FL	
22	Savannah, GA	

	oavannan, art
Decemb	per 2013
Date	Location
6	Denver, CO
13	Atlanta, GA
14	Philidelphia, PA
Advance Implant	more about ed Mini Dental training programs go to MESPE.com/ImplantSeminars







Glidewell utilizes the latest CAD/CAM technology to create passive-fitting milled implant bars consistently.

"We must have verified scientific data to present to the FDA or its analogues in other countries and honest advertising principles."

-Dr. Kenneth Judy

oral and maxillofacial surgery teach oral implantology/implant dentistry to the educational level of competence. To correctly staff their departments and continuing education programs, many schools needed the assistance of practicing "implantologists." Individual and society sponsored clinicians rose to the challenge and now this is no longer a problem. However, in many countries that are not as advanced as the United States, implant societies have to try and fill the void in many respected faculties. Again a constant problem is cost. Not many schools can afford long distance teaching missions, so all countries could achieve equality. This situation is slowly changing around the world, because more people, even

in poor countries, are seeking the benefits of implants.

Dental schools should be taking advantage of outside electronic media as well as creating their own. They should be forming large in-depth faculties to meet the needs of their students and

Implant manufacturers

What is the responsibility of implant manufacturers? It is to develop quality, FDA-approved products and to tell the truth about them in advertising. Unfortunately we exist in a competitive economic world. We have more than 100 implant companies worldwide with substantive product





G-ænial™ Universal Flo

UNIVERSAL INJECTABLE COMPOSITE RESTORATIVE

"Everyday at chairside and in the laboratory,

I use G-ænial™ Universal Flo for a myriad of restorative applications. This newer resin technology allows a higher filler loading and reduced interparticle spacing thus improving strength, wear resistance and an increased restorative applicability."

- Dr. douglas Terry



Results of G-ænial Universal Flo Evaluation at 1 Year from The Dental Advisor 5.0 4.9 5.0 4.9 4.9 5.0 Resistance to Fracture Esthetics Resistance to Marginal Discoloration Discoloration Sensitivity



TOUCH of GENIUS

- Superior polish and high gloss retention
- Lack of post-operative sensitivity
- Extraordinary wear resistance
- Strength through filler innovation for Classes I, II, III, IV and V
- Wears like a traditional composite, yet handles like a flowable

The First Truly Universal Injectable Composite



300.323.7063 • www.gcamerica.com • www.gcamerica.com/training • © 2013 GC America Inc



state of the art equipment in an ISO 13485

and ISO 9000 certified facility in Irvine, Calif.

lines. Each year some "reputable" implant does not live up to its company's claims. Patients are hurt, practitioners are hurt, and lawsuits are generated. The answer is quite simple. We must have verified scientific data to present to the FDA or its analogues in other countries and honest advertising principles. Very often, the implant component of a restoration will only be 10-20% of the total cost to a patient. However, if there is an implant failure, it could be financially catastrophic. The responsibility of our manufacturers is critical.

Individual practitioners or group practices have extremely personal responsibilities. Advertising and placing implants today puts practitioners on the cutting edge or in a leadership position. Each practitioner should develop an inherent self-worth to his or her in-office colleagues and regional colleagues and/or referring dentists. Many should find the confidence and material to join regional, national, or international lecture circuits. ICOI's table clinic and poster presentations are a great way to "test the waters" in this regard. The dental office auxiliary team should

realize they are also "cutting edge" and should strive to be the "best they can be."

All of this self-worth and leadership should also benefit two other groups, i.e. local communities and team members' families including, of course, dentists' families themselves.

It should occur to all of us involved in this dynamic field that our need for education and growth on many different levels is unlimited. Not only do we place and/or restore and maintain implants, but we should or can have a special place in the expanding world of dentistry.

I feel honored to make this commentary. For more information about the ICOI, please go to

Dr. Judy or his immediate family has no commercial interest in any dental product.

Dr. Kenneth Judy is the co-chairman of the International Congress of Oral Implantologists (ICOI) and has more than 40 years of experience in the area of dental implants. He has a private practice in New York City. You can learn more by visitingicoi.org or kennethjudydds.com.





Use Invisible Aligners with Complete Confidence

Smart Moves

Invisible Hard/Soft Aligner System

Free personal one-on-one consultation for:

- Case Selection
- Treatment Options
- · Estimate on the Number of **Appliances Needed**

Less Expensive

You pay just \$109 per setup, complete with two aligners (\$54.50 per aligner), and achieve up to 1mm of tooth movement per arch.

Get started now! It's easy.

Contact us for more information, Rx forms, and shipping supplies:

800.828.7626 (U.S. & Canada) 716.871.1161 (Worldwide)

Or download an Rx form at: www.greatlakesortho.com



Made from upper and lower PVS impressions or stone models.

One impression can produce up to three setups, two aligners per setup.



Aligner One Fabricated of 1.3mm Invisacryl^{*} Hard/Soft material.

> Inner laminate is soft and highly elastic to provide exceptional tooth movement, seating and patient comfort



Aligner Two Fabricated of hard 1mm Invisacryl, this aligner completes the tooth movement



Scan with your phone's QR Code reader to learn more about Smart Moves



A less expensive, highly-effective solution for anterior tooth alignment.

Interested? Circle Product Card No. 106

Have a Smile On Us!

DENTCA's 2 On Us is Back Due to Popular Demand!

Due to the overwhelming response we received from the 222 On Us promotion, we are extending this to give more dentists the chance to experience DENTCA's Digital Denture Solution before the holidays. Deliver life-changing dentures, health and happiness in just 2 visits.

Sign up now on www.dentca.com with promo code: DENTCABEHAPPY

DENTCA. 222 On Us is Just 2 Good!

DENTCA, the global leader and pioneer of CAD/CAM denture technology, is offering one free complete denture order to the first 222 dentists who register on www.dentca.com with the promo code: DENTCABEHAPPY. Simply register with the promo code DENTCABEHAPPY and a valid doctor's license number, and your account will receive a free complete denture order which can be redeemed at any time before December 31, 2013.

2 Steps, 2 Visits

Limit: one free denture order per licensed U.S. doctor. License validation via fax or e-mail required to receive the promotion. Restrictions may apply. com/promo/222onus for complete terms and conditions.

Listen to what leading doctors are saying about DENTCA's CAD/CAM Denture process:

"My stress levels have reduced 90% since I switched to the DENTCA system. I am encouraging my associates and other colleagues to consider this system. I have absolutely no doubt that this technology will be the technology that produces almost all dentures and implant retained dentures in the very near future."

-Dean Sperow, D.M.D., Dental Clinical Director, OnHealthcare

"With DENTCA's CAD/CAM denture system, patient satisfaction levels continued to exceed our expectations. For those of us who continue to treat edentulism, there is no better alternative than DENTCA's 3D CAD/CAM system."

-Luis Garabis, D.D.S., Dental Director, Mid America Professional Group, PC

"The DENTCA system is extremely efficient and accurate. I was able to take impressions for six patients all in one afternoon. The following week, all six received their final denture with astonishing results and satisfaction. The delivery time averaged 15 minutes each and the quality of the retention, fit, aesthetics, and comfort were unparalleled."

- Brady Gard, D.D.S., Las Vegas, NV

Chairside assistance available at no cost in and around:

Los Angeles, CA | Vancouver, WA | Boston, MA | Kalamazoo, MI | Phoenix, AZ Contact DENTCA today to schedule chairside assistance with the 222 Promotion!

DENTCA's CAD/CAM Denture System Advantages:

- . No startup costs involved
- Only 1 patient visit needed before final denture delivery
- Receive a 3D-printed try-in, or go direct-to-final from the impression

The World's 1st CAD/CAM Denture Company

DENTCA, Inc. | 3608 Griffith Avenue, Los Angeles, CA 90011 | Tel: 323. 232. 7505 | Fax: 323. 232. 7504 | info@dentca.com | www.dentca.com | f www.facebook.com/dentcausa



3M ESPE MDI Mini Dental Implants.

AN INTERVIEW WITH 3M ESPE

Q: What is the most frequent question you hear about this category?

A: As some clinicians still consider mini dental implants to be a new treatment, one of the most frequent questions we encounter about this category is whether MDIs are a suitable and effective solution for long-term use. Dentists are also frequently unaware that small diameter implants can be used for fixation of single crowns and partial dentures.

Q: How does your product seek to answer that question?

A: 3M ESPE MDI Mini Dental Implants have amassed a significant clinical track record that proves small diameter implants not only offer significant benefits to patients as compared to traditional implants, but they also are effective long term. Studies with durations ranging from one to five years have found success rates between 92 and 98 percent. One study in particular followed 2,514 implants (531 patients) for up to five years and reported a success rate of 95 percent for full mandibular dentures and 92 percent for removable partial dentures. An analysis also has been published in the Clinical Oral Implants Research journal that confirms survival rates for small diameter implants are similar to those for traditional implants—whether being used for stabilizing a full denture, partial denture, or a single unit crown over implant.





Q: What about this category helps dentists practice better dentistry?

A: Small diameter implants help clinicians treat a wider patient base because they provide an effective stabilization solution for many patients who are not candidates for traditional implants, or who can't afford the cost of traditional implants.

MDIs require less bone height and width, and can be placed in a flapless procedure and immediately loaded because they're designed for stability in soft and dense bone. With this product, clinicians can offer an affordable solution that requires less time in the chair and an immediate boost in quality of life for their patients.

Q: How is your product leading innovation in this category?

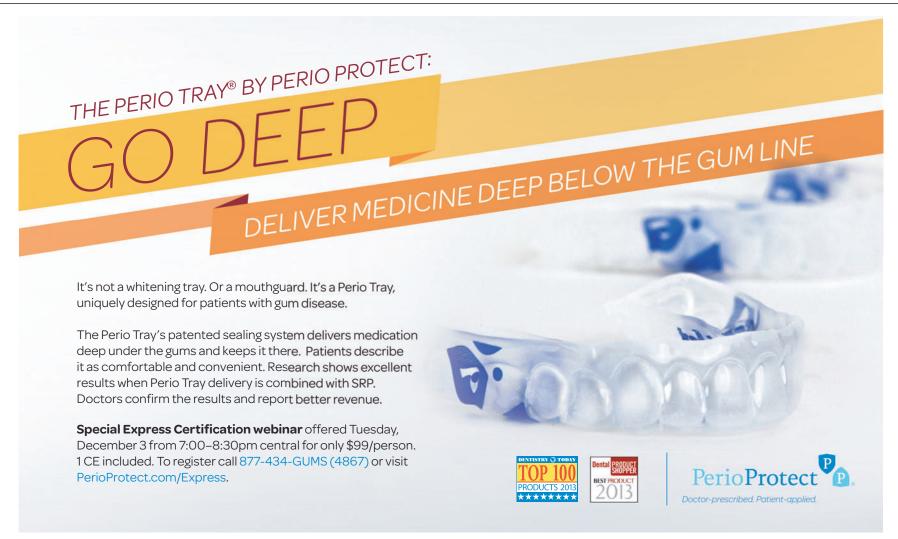
3M ESPE offers affordable one-day MDI certification seminars led by some of the most experienced small diameter implant clinicians in the world. These handson seminars teach clinicians how to effectively carry out all types of indications with mini implants, including removable partial dentures.

For dentists who already have experience placing minis, 3M ESPE helps connect them with advanced courses to further their training. At any time, dentists can access online training webinars to refresh their knowledge of the procedure.

Additionally, 3M ESPE offers a comprehensive marketing tool kit to help dentists enhance patient awareness of the benefits MDIs offer, available online at MY3MESPE.com.

REFERENCES

- 1. Griffitts, T. M., Collins, C. P., Collins, P. C. Mini dental implants: An adjunct for retention, stability, and comfort for the edentulous patient. Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology, 100 (5): E81-E84,
- 2. Elsyad, M. A., Gebreel, A. A., Fouad, M. M., Elshoukouki. The clinical and radiographic outcome of immediately loaded mini implants supporting a mandibular overdenture. A 3-year prospective study.
- 3. Todorovic, A., Markovic, A., Scepanovic, M. "Stability and peri-implant bone resorption of mini implants as complete lower denture retainers", poster contribution to the conference "Implantology for the compromised patient," University Medical Center Groningen, The Netherlands, Feb 1st-4th 2012.



Interested? Circle Product Card No. 109

HOWTO

BOND WITH OPTIMAL RESULTS

Here's two clinical examples to illustrate how Futurabond U can be used clinically to achieve outstanding results.

by DR. RON KAMINER

Information provided by VOCO America Inc.

Since 1955, when Dr. Michael Buonocore challenged dentistry with his primitive yet innovative form of bonding, materials and techniques have evolved dramatically. Yet despite the improvement in materials and techniques, when surveying a recent group of dentists, I realized the group still uses a variety of techniques and materials to achieve a similar outcome. Some still use phosphoric acid and then an adhesive, some use self-etch primer and an adhesive, and some use a single bottle, self-etching primer and bond.

One of the negative characteristics with self-etch primer and bond as compared to a phosphoric acid etch and bond system is adequate but decreased bond strengths. It is for this reason that many still like to use phosphoric acid prior to using a one bottle self-etch primer and bond (for improved bond strengths). This last statement is true for enamel but if you use 37% phosphoric acid on dentin prior to a self-etch primer and bond, you're likely to encounter a decrease in bond strengths and potential sensitivity. This occurs by the phosphoric acid removing more dentin mineral that can be filled by selfadhesive monomers.

Universal adhesives

A new generation of bonding materials called universal adhesives have been created so dentists have the option of total-etch or self-etch with no concern of decreased bond strengths when used in conjunction with phosphoric acid on dentin. One such product, Futurabond U from VOCO America, offers simplicity of use with outstanding bond strengths.

Futurabond U differs from its predecessor Futurabond DC in a number of characteristics. Futurabond U has a lower PH than conventional self-etching systems like Futurabond DC. This lower PH will not allow for over etching of the already etched dentin in the total-etch technique. Futurabond U has a new surfactant that improves its wettability, leading to lower surface tension and improved bond strengths. Finally, the monomer chemistry is different than its predecessor thus enhancing the effect of the new acid.

Futurabond U doesn't differ from its predecessor in one of its most useful traits: the packaging. The innovative foil packaging of Futurabond U really separates it from all other adhesives on the market. The foil packaging consists of two compartments, each with its own unique chemistry. By pressing on a certain spot in the packaging, the material from one side shoots internally to the other side, allowing for an instantaneous fresh mix of the chemistry.











AT A GLANCE

- 1. A microbrush is used to penetrate the foil into the material and then consequently brush it onto the tooth.
- 2. Pre-op photo shows a chip on the incisal edge of tooth No. 9.
- 3. A 37% phosphoric acid is used on the enamel for 10 seconds.
- **4.** Futurabond U can be seen on the tooth after curing.
- 5. The final restoration is placed (GrandioSO Shade A1, VOCO), light cured, finished and polished.
- **6.** Radiographic exam reveals early onset

FUTURABOND® U **FEATURES**

 Universal indications for all adhesive procedures without the need of any additional activators or primers

 Prevents solvent evaporation, a well-documented challenge for adhesives dispensed in a bottle

Adheres well to metal, zirconia and ceramic making extra primers unnecessary

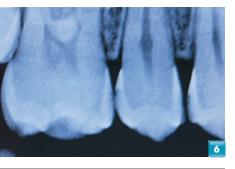
SCAN



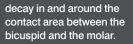
CIRCLE: RS NO. 110











- 7. Exam reveals no occlusal break from decay
- 8. A tunnel prep approach is chosen to access and remove the decay on both teeth.
- 9. Futurabond U used in the self-etch mode according to manufacturer's instructions
- 10-11. After light curing, VOCO's GrandioSO Flow highly filled esthetic flowable composite was used to fill the preparation.









Case presentation



STEP In the self-etching technique, a microbrush is now used to penetrate the foil into the material and

then consequently brush it onto the tooth. This eliminates any evaporation of material that can occur from a bottle being left open or material being dispensed onto a dappen dish (Fig. 1). In the total-etch technique, a 37% phosphoric acid is used on dentin and enamel for 10 seconds, rinsed off followed by the application of Futurabond U. The material is brushed on for 20 seconds, air dried for five seconds and light cured for 10 seconds. At this point the tooth is ready to accept the restoration.

Because of its low film thickness, Futurabond U is ideal for indirect as well as direct restorations. Its chemistry allows it also to be used with any dualcure or self-cure materials, eliminating any potential material incompatibility issues. Bond strengths in these instances still remain quite high, a feature not often seen with other systems. Futurabond U also bonds to zirconia, metals, aluminum oxide and silicate ceramics without the need for any other primers. It also is quite strong with bond strengths more than 30 MPa to enamel and dentin.

The following two clinical examples will illustrate how Futurabond U can be used clinically to achieve outstanding

As previously stated, Futurabond U can be used in the self-etch mode or with phosphoric acid in the selective-etch or total-etch mode.



STEP In this case, when bonding to an incisal edge, we elected to use phosphoric acid first to improve

bond strengths of the composite. Our pre-op photo shows a chip on the incisal edge of tooth No. 9 (Fig. 2).



STEP A 37% phosphoric acid (Ultra etch, Ultradent), is used on the enamel for 10 seconds (Fig. 3).

After thoroughly rinsing off the etchant, a mylar strip is placed between 8 and 9, and Futurabond U is brushed on the enamel for 20 seconds and air dried for five seconds. Futurabond U is then light cured for 10 seconds. One of the nice things about Futurabond U is that you can see it on the tooth after curing (Fig. 4). This reinforces the fact that you have adhesive in place before placing the direct restorative.



The final restoration is placed (GrandioSO Shade A1, VOCO), light cured, finished and polished (Fig. 5).

Incipient decay can be treated conservatively with tunnel preparations to avoid removing unnecessary tooth structure. Radiographic examination in this case reveals early onset decay in and around the contact area between the bicuspid and the molar (Fig. 6).



STEP Clinical exam reveals no occlusal break from decay (Fig. 7). A tunnel preparation approach is cho-

sen to access and remove the decay on both teeth (Fig. 8).

Futurabond U is used here in the selfetch mode according to manufacturer's instructions (Fig. 9).



STEP After light curing, GrandioSO Flow (VOCO), a highly filled esthetic flowable composite, is

used to fill the preparation (Figs. 10-11). This material, while strong, is also very esthetic as evidenced by the natural appearance and blending of the restoration with the existing tooth structure.

Conclusion

Universal adhesives such as Futurabond U are the newest advances in dentistry as it relates to the bonding process. They eliminate the need for multiple adhesive systems and allow you to bond restorations in any manner that you like. In other words, they allow you to "have it your way."

REFERENCES

- 1. Buonocore MG. A simple method of increasing the adhesion of acrylic filling materials to enamel surfaces. J Dent Res 1955;34:849-53
- 2. Yoshiyama M, Sano H, Carvalho RM, Pashlev DH. Adhesive mechanism of a self-etching/ self-priming adhesive resin to enamel and dentin. J Hard Tiss Biol 1996;5:31-5.
- 3. Fabianelli A, Vichi A, Kugel G, Ferrari M. Influence of self-etching-priming bonding systems on sealing ability of Class II restorations: leakage and SEM evaluation. Paper presented at annual meeting of the International Association for Dental Research; April 6, 2000: Washington, D.C.
- 4. Ferrari M, Goracci G, Garcia-Godoy F. Bonding mechanism of three "one-bottle" systems to conditioned and unconditioned enamel and dentin. Am J Dent 1997;10:224-30

--- HOWTO

ACHIEVE ACCURATE IMPRESSIONS

Simplifying the impression process for IPS e.max posterior restorations with Virtual XD.

by dr. ed lowe

Information provided by Ivoclar Vivadent.

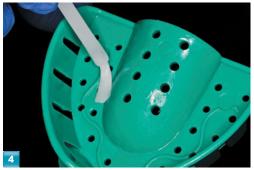
The long-term esthetic and functional success of indirect restorations is dependent in part on accurate and detailed impressions. Impressions form the basis for fabricating all-ceramic restorations (e.g., IPS e.max lithium disilicate from Ivoclar Vivadent) that properly fit the preparation design and demonstrate anticipated anatomical form. It is therefore understandable that dentists and laboratory ceramists require and appreciate impression materials that precisely capture tooth morphology, intricacies of preparations, and the relationship between tooth structure and gingival tissues (i.e., marginal details).

A recently introduced vinyl polysiloxane (VPS) impression material, Virtual® XD from Ivoclar Vivadent simplifies the impression taking process for Ivoclar Vivadent's IPS e.max restorations. The material's precise and accurate detail reproduction also expand the possibilities for conservative, minimally invasive posterior treatments that demonstrate marginal integrity and an intimate fit. The Virtual XD impression system is indicated for final impressions used for fabricating indirect restorations (inlays, onlays, crowns, bridges, veneers); dental implant impressions; silicone matrices for wax-ups, study models, or treatment planning; edentulous impressions; and silicone matrices for creating temporary restorations. Virtual XD impression materials adapt well to oral soft and hard tissues due to its flowability into the sulcus. As a result, impressions reproduce the details necessary for achieving an accurate and outstanding restoration fit. The material's advanced wettability properties and moisture displacement capabilities facilitate capturing precise details in a moist environment. The orange and yellow colors improve readability of the margins. Additionally, because Virtual XD produces impressions with high tear strength, the risk of tearing fine margins is reduced.

With the new impression material, dental professionals can pour models when needed because the material maintains its dimensional stability for up to two weeks. Enhanced elastic recovery from deformation after removal from the mouth contributes to the dimensional stability of Virtual XD impressions.









AT A GLANCE

- 1. Pre-operative view of defective posterior amalgam restorations.
- 2. The teeth were prepared for inlay restorations, and wooden wedges were placed to protect the interproximal gingival tissue.
- 3. View of the completed inlay preparations for IPS e.max lithium disilicate restorations.
- **4.** A stock tray was painted with Virtual tray adhesive.
- **5.** The Virtual XD heavy body material was dispensed onto the impression tray.



VIRTUAL XD **FEATURES**

Optimized flow characteristics for deeper penetration into the sulcus
 Advanced wetting ability for precise detail reproduction of both soft and hard tissue

 Higher tear strength to maintain the integrity of margins and fine detail upon removal of the impression

SCAN:



Ivoclar Vivadent Inc. ivoclarvivadent.com

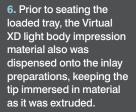
8 800-533-6825

CIRCLE: RS NO. 111



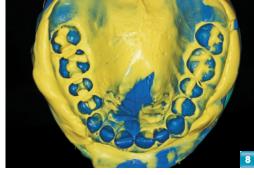




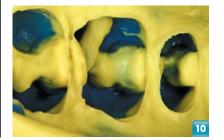


- 7. The patient's mouth was retracted using a self-retracting retractor, and the loaded tray was seated.
- 8. View of the final VPS impression (Virtual XD) following removal from the mouth.
- Figs. 9-11. These close-up images reveal the marginal detail of the impression captured by using the Virtual XD impression system materials.

Fig. 12. One month post-op of IPS e.max inlays in 2, 3, 4 and 5.

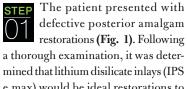






Facilitating ease of use and simplifying the impression taking process are the four viscosities included in the Virtual XD impression system (Extra Light Body, Light Body, Heavy Body and Putty). These are complemented by a new automatic material mixer for 380 mL cartridges, which features a designated mixing program and two dispensing speeds. The impression system also includes tray and wash materials in fast and regular setting times that demonstrate a patient friendly minty scent.

Case presentation



a thorough examination, it was determined that lithium disilicate inlays (IPS e.max) would be ideal restorations to reinforce the remaining tooth structure, ensure lifelike esthetics, and provide the strength necessary for the posterior area.

At the preparation appointment, the patient was an esthetized, and the defective amalgam restora-

tions were removed. Wooden wedges were placed to protect the interproximal gingival tissue (Fig. 2).

Upon completion of the preparations (Fig. 3), a stock tray was lined with Virtual tray adhesive

(Fig. 4). A fast-set heavy body material (Virtual XD) was dispensed onto the impression tray (Fig. 5).



Then, the Virtual XD extra light body impression material was dispensed on top of the

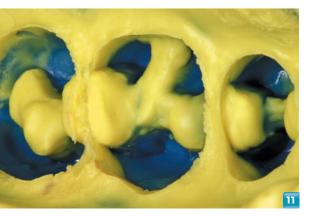
loaded heavy body material in the area of the inlay preparations. Prior to seating the loaded tray, the Virtual XD extra light body impression material was also dispensed onto the inlay preparations, keeping the tip immersed in material as it was extruded (Fig. 6).

A self-retracting retractor was placed in the patient's mouth, after which the tray was seated

into the mouth with even finger pressure and allowed to set (Fig. 7). The impression was checked to ensure complete setting, and it was removed and checked to verify duplication of the preparation details that would be necessary for accurately fitting restorations (Fig. 8). The impression was then disinfected using a surface disinfectant spray and shipped to the laboratory.



Because accuracy and fit are requisites for treatment success, impressions sent to the laboratory must precisely capture tooth anatomy and preparation details. Using a recently introduced VPS impression material system, Virtual® XD, helped to simplify the impression taking process for IPS e.max lithium disilicate inlay restorations necessary for this case. The Virtual XD impressions taken for this case demonstrated a high level of marginal detail, which helped to ensure the fabrication of accurate restorations that fit well and demonstrated life-like anatomical detail (Figs. 9-11). Post-op photo (Fig. 12). ●





HOWTO

ACHIEVE A SIMPLER BOND

BISCO's new eCEMENT™ can help you save time while maintaining strength and esthetics.

by Joseph Kim, DDS, PRIVATE PRACTICE, SUGAR GROVE, ILL.

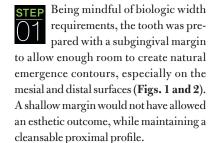
Information provided by BISCO.

Over the past several years, there has been widespread adoption of lithium disilicate based restorations (e.g. IPS e.max**) by the restorative dental community. Previously, restorative dentists were limited in their material selection depending on the need for strength or esthetics. Now, this proven material allows clinicians to address most situations without sacrificing strength or beauty. However, this unified material approach often requires the use of different bonding or cementation techniques depending on the location, opacity and type of prosthesis being delivered.

BISCO's new bonding system, eCEMENTTM, meets the various delivery requirements in a single, simplified kit that incorporates both light cure and dual cure resin cements. This kit was created specifically for lithium disilicate and most other all-ceramic restorations. In addition to the two different cements, the kit includes a combination of innovative and proven products to simplify the adhesive protocol: etch for both the tooth and ceramic, porcelain primer and a bonding agent. In the following case, the dual cure cement was chosen because of the thickness and low translucency of the finished restoration.

The patient presented with tooth No. 12, which recently had been treated with root canal therapy and a bonded post and core. Restoring premolars that have had root canal therapy can be challenging because of the minimal residual dentinal wall thickness, as well as their visibility in the esthetic zone. Increasing the difficulty, the premolar exhibited a short clinical crown height, and a widened mesiodistal space because tooth No. 11 was rotated.

Case Study









- 1. Tooth No. 12 prepared with a subgingival margin.
- **2.** Alternate view of tooth preparation.
- 3. Etching the intaglio of the restoration with the eCEMENT kit's porcelain etchant. After etching for 25 seconds, rinse and dry.
- 4. Seating the restoration after applying two coats of All-Bond Universal self-etching adhesive.
- **5.** Filling the crown with dual-cured eCEMENT.



eCEMENT SYSTEM FEATURES

• Includes both light-cure and dual cure

 System can be used with all restorations, including veneers, inlays, onlays, crowns, three-unit bridges, CAD/CAM blocks and pressable ingots made of lithium disilicate

> Complete kit comes with all components needed to cement lithium disilicate restorations

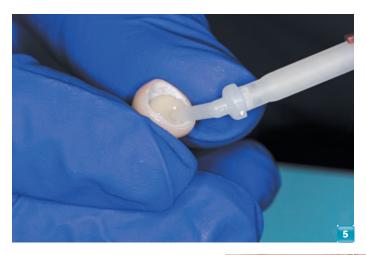




BISCO bisco.com ⊚ 800-247-3368

CIRCLE: RS NO. 112





- 6. After the restoration was tack cured for three seconds, excess is easily removed with an explorer.
- Using a high-output LED curing light to cure the restoration's surfaces.
- **8.** Final result of the finished restoration.
- 9. Side view of completed case.









At delivery, the provisional crown was removed, and the polycarboxylate temporary cement was removed from the tooth surface with an air driven sonic scaler. The lithium disilicate crown was tried in and the marginal fit, proximal contacts, and occlusion were verified.

The intaglio of the restoration was etched with the eCEMENT kit's porcelain etchant for 25 seconds, then rinsed and dried (Fig. 3). The included porcelain primer was then brushed inside the crown and left for 30 seconds, then dried.

Two coats of All-Bond Universal® from BISCO Dental Products, a single bottle, self-etching adhesive were applied to the tooth according to the manufacturer's instructions, and light cured for 10 seconds. The film thickness of the adhesive is less than 10 microns and will not interfere with

seating of the restoration (Fig. 4).

After bleeding the automix syringe, the crown was filled with dual-cured eCEMENT

(Fig. 5). The crown was fully seated onto the prepared tooth. The cement was tack cured for three seconds facially and palatally, and the excess was easily removed with an explorer (Fig. 6).

After thoroughly removing any subging iv a 1 marginal cement, the facial, occlusal and palatal surfaces were cured for 20 seconds each with a high-output LED curing light (Fig. 7). While this step is optional, it is my habit to post-

cure dual-cured adhesive cements to inactivate any light sensitive molecules.

The final result fulfilled the unique space, height and color requirements of this case, and the patient was very satisfied with the outcome. (Figs. 8 and 9) The occlusion and contacts were rechecked, and the patient was dismissed.

Compared to alternative bonding and cementation systems, the eCEMENT™ system was uniquely suited for this particular case, where the margins were placed in a significantly subgingival position to idealize the contours, strength and retention. To control bleeding during delivery of a fixed prosthesis with subgingival margins, several criteria must be met, including a properly fabricated provisional and gentle but complete removal of all provisional cement. Even then, it can be a challenge to keep the site free of blood when etchants and bonding agents come into contact with the gingiva. In this case, the materials in the eCEMENT kit did not cause any issues with bleeding. In fact, the only blood that was encountered was during the final cleanup of the subgingival margins.

From an inventory point of view, stocking and becoming familiar with a single bonding system maximizes efficiency while minimizing errors and material waste. In doing so, delivery times and esthetic outcomes approach an optimal level of predictability.

In summary, the eCEMENT kit provides a comprehensive bonding solution to every lithium disilicate restorative situation, including veneers, inlays, onlays, crowns, fixed prostheses and CAD/CAM fabricated restorations. In doing so, it allows the unified approach of this versatile material to reach its full potential in an efficient and predictable manner.

* IPS e.max is a registered trademark of IVOCLAR VIVADENT Inc. eCEMENT is a trademark of BISCO Inc. There is no sponsorship, affiliation or connection between BISCO Inc. and IVOCLAR VIVADENT Inc. she is going ng be

HOWTO

PLACE AND FINISH DURABLE **POSTERIOR RESTORATIONS**

How 3M ESPE's Filtek Supreme Ultra universal restorative helps make the restorative process easy and straightforward, providing patients with esthetic, long-lasting restorations.

by Alan R. Weinstein Information provided by 3M ESPE.

When placing posterior composite restorations, dentists look for a number of qualities: wear resistance, radiopacity, ease of handling and polishability. Because of frequent difficult access and inherent technique sensitivity, a material that provides easy handling and finishing is important to keep the process efficient and ensure the best results.

Once the composite is placed, a simplified technique to reduce the number of steps used to gain a superior finish would be ideal. Because of the limited maneuverability in the posterior region, an alternative to multiple polishing points, cups or discs to achieve a smooth finish is best.

In addition to ease of handling, which includes placement and sculptability, and ease of finishing, a posterior composite also should provide clinically proven high strength and wear resistance. Additionally, even though esthetics in the posterior segment may not be as critical as they are in the anterior region, patients still want a restoration that provides an excellent shade match and long-term color stability.1,2

The latest edition of 3M™ ESPE™ Filtek™ Supreme Ultra universal restorative is an excellent choice for posterior use. Because the material is a nanohybrid with microscopic polishable particles of various size, it provides both strength and esthetics. Filtek Supreme Ultra restorative polishes easily initially, and has the ability to maintain its polish over the long term. Filtek's easy handling and sculptability allows it to be quickly manipulated without sticking or slumping, which is especially helpful in the posterior region. With a proven clinical record, it also provides the strength needed to resist fracture and wear.2,3







AT A GLANCE

- Caries was present on tooth No. 19.
- 2. An indirect pulp cap was placed.
- 3. Scotchbond™ Universal Adhesive was applied and light cured.
- 4. Filtek™ Supreme Ultra Universal Restorative was placed in increments.
- 5. Initial reduction was performed with fine diamonds, followed by carbide finishing burs.



• The nanohybrid material features microscopic polishable particles of various sizes • Polishes easily initially, and has the ability to maintain its polish long-term

SCAN:



 Easy handling and sculptability 3M ESPE 3MESPE.com ● 800-634-2249 CIRCLE: RS NO. 113





- 6. Brasseler H379-023/ OS-1 football shaped carbide finishing bur and 274-016 - small pointed carbide bur.
- 7. The coarser beige spiral finishing wheel was used first, followed by the white wheel for polishing.
- 8. Polishing was completed using the Sof-Lex™ Spiral Polishing Wheel.
- 9. Final polish.









Recent improvements in finishing and polishing technology have made the use of this material even simpler. 3M™ ESPE™ Sof-Lex[™] Spiral Finishing and Polishing Wheels are soft thermoplastic wheels with flexible "fingers" that have abrasive particles embedded throughout. These wheels reach easily into posterior areas and adapt well to all tooth surfaces, so there is no need to progress through a series of finishing and polishing cups, points or discs. Only light pressure is needed, and all sides of the wheel can be used.4,5

Case presentation

The patient presented with tooth No. 19 showing caries present radiographically and clinically (Fig. 1).



STEP A conservative preparation was made with a small H245-008 carbide bur, followed by a #4

round bur for remaining caries removal. An indirect pulp cap of calcium hydroxide covered with dual-cured glass ionomer was placed (Fig. 2).



The enamel was etched for 15 seconds with gel etchant followed by wash and placement

of two 15-second coats of $3\,M^{\scriptscriptstyle\mathsf{TM}}$ ESPE™ Scotchbond™ Universal Adhesive, which was gently blown dry between coats, and light cured for 15 seconds (Fig. 3).2,3



STEP Filtek Supreme Ultra universal restorative in shade A1 was placed in increments to

reduce internal stress while curing. A Tarno FP-3 (PFIW-3 new designation) instrument was used to manipulate the material, which handles very well. The slightly lighter shade was selected to provide contrast between the tooth and filling material during the finishing phase.

(Because of the posterior placement, an exact shade match was not crucial; however many other cases have documented the esthetic potential of this material.) The increments were light cured for 10-15 seconds (Fig. 4).1,2



Initial reduction of resin was completed with fine diamonds (368-023 football shape-Brasseler)

followed by carbide finishing burs. (Brasseler H379-023/OS-1 football shaped carbide finishing bur and 274-016—small pointed carbide bur (Figs. 5 and 6)).4,5



STEP Finishing continued with the 3M™ ESPE™ Sof-Lex™ Spiral Finishing and Polishing Wheels. The

beige wheel was used first as the abrasive is coarser (Fig. 7), followed by the white wheel for polishing (Fig. 8). The final high luster polish was achieved by using only the finishing and polishing wheels (Fig. 9). No rubber finishing or polishing points were necessary, which can potentially cause damaging heat build up on the resin surface. Like Sof-Lex discs, these wheels are one-use only, so no sterilization is necessary.

Closing thought

Access and ease of finishing is often a challenge in placing posterior restorations, but the right material and technique can go a long way toward reducing difficulty in restoring these areas. The easy handling of Filtek Supreme Ultra universal restorative makes the process simple and straightforward, while the material's proven strength helps ensure it will serve the patient for the long term. This case was completed by finishing and polishing with unique flexible spiral wheels that adapt easily to the resin's surfaces, demonstrating that posterior composite placement, especially of larger cases, can be easily streamlined.

- 1. Miller M. Reality Esthetics. Houston, Reality Publishing Co, 2012, pp 326-331.
- 2. CRA. Clinicians Report. Have posterior composite resins improved? July 2011, Volume 4, issue 7.
- 3. Christensen GJ. Finishing Class II composite resin restorations. In Varlherle G, Smith DC, eds. Posterior Composite Resin Dental Restorative Materials. St. Paul, 3M Co, 1985, pp 477-85.
- 4. Weinstein AR. Anterior composite resins and veneers: treatment planning, preparation, and finishing. JADA (Special Issue) September1988:38E-45E.
- 5. Sturdevant CM, and others, eds. The Art and Science of Operative Dentistry-Fifth Edition. St. Louis, CV Mosby Co, 2006, pp 497-526.

THE TAKE-AWAYS

- i-CAT FLX gives you the option to set the size and radiation dose with each scan.
- 3D Cone beam technology gives you the ability to show patients 3D renderings of their anatomical structure, which can help increase understanding and case acceptance.

3D cone beam technology that puts you in control

From radiation dose to customized scans, Imaging Sciences International's i-CAT® FLX offers a fast workflow and high-quality scans designed to help you offer the best patient care possible.

by dr. jeffrey t. kozlowski

ABOUT THE AUTHOR

Dr. Kozlowski is world-renowned for his unique perspective on quality orthodontic treatment



results and clinical efficiency. An internationally sought-after lecturer, he has presented all over the

world on topics including digital orthodontics, facial esthetics, efficient early treatment, orthodontic treatment mechanics and clinical efficiency. Dr. Kozlowski graduated with a BS in **Economics from Syracuse** University prior to receiving his DDS and Orthodontic Specialty Certificate from the State University of New York at Buffalo. He has been published in numerous orthodontic journals, including Seminars in Orthodontics, Journal of Clinical Orthodontics. Clinical Impressions and The Progressive Orthodontist. Dr. Kozlowski has practices in New London and East Lyme, Connecticut.

The products that appear in conjunction with this article are for illustrative or informational purposes only. Their inclusion does not denote endorsement by the author of this article.

When i-CAT FLX was unveiled, it seemed that the research and development department had read my mind.

Of course, I needed a quality image, but I also wanted the ability to control dose, resolution and modality so I could tailor scans to a patient's needs. I now have the best of both worlds and more—clear, diagnostically useful images, nearly unlimited possibilities in both 3D and 2D radiographs, as well as a full array of versatile treatment tools to augment my own clinical knowledge and improve my ability to communicate with patients.

You're in control

As an orthodontist who is very aware of radiation dose, I wanted to use cone beam 3D technology but was concerned about potentially expos-

ing my patients to higher radiation than traditional 2D imaging.

When I heard about i-CAT with QuickScan+, I realized I could obtain 3D information and have complete control over dose. Now, we take a 4.8-second scan with much less radiation than my previous panoramic, and I get the information that I need—pan, ceph and 3D views of the teeth and roots. A scan shows me skeletal structure, airways, sinuses, TMJ, and a wealth of other information.

Using Tx STUDIO™ software, I can show patients and/or parents 3D renderings of their anatomical structures. I then can communicate their dental development properly along with conditions such as crowding, missing teeth, extra teeth, root structure and formation. I explain the challenges that I see and, with this 3D information, they can see as well; this increases their desire to proceed with treatment.



The i-CAT FLX from Imaging Sciences International

AT A GLANCE









FIGS. 1-4 Select the appropriate scan—traditional 2D i-Pan in large or small or 3D scan in various diameters, heights and resolutions—by touching the proper image on the screen (Fig. 1). Once the patient is in position, the next screen allows for a Scout, Dry Run, or the actual Scan capture (Fig. 2). With the "Scout" image, we are able to reposition the patient and to decrease or increase the height and position of the scan, as needed, then take the actual scan (Fig. 3). Within Tx STUDIO, I have access to a collection of diagnostic and treatment tools specific to orthodontics. There are also tools specific to other procedures such as airway and implants (Fig. 4).







FIGS. 5-6 Create customized scans by first choosing the size or the amount of anatomy to be covered (**Fig. 5**). Select the resolution and dose, and then name the customized scans. It now becomes part of your SmartScan STUDIO library of protocols (**Fig. 6**).

"...we usually set for the lowest dose, but having the option of increasing when necessary gives me the control I was looking for in a 3D cone beam system."

We usually take the lowest-dose scan, but I have the option of increasing the resolution when appropriate; for example, if the patient also needs implants. The ability of i-CAT FLX to get a 3D image of diagnostic quality for less radiation than a pan is phenomenal; having the ability to collimate and choose the resolution of any scan to fit a patient's situation is a big bonus. In my opinion, that's providing the best care possible for my patients, and that's what good orthodontics is all about.

Scan selection and capture with i-CAT FLX SmartScan STUDIO

After I determine the patient's particular imaging needs, the treatment coordinator initiates SmartScan STUDIO from the touchscreen. She enters patient information, then she selects the predetermined scan (2D pan or 3D scan) by touching the proper image on the screen (Fig. 1). She covers the patient with a lead apron, places the patient in the i-CAT, and situates him or her using the system's laser lines. Once the patient is in position, she moves to the next screen, which allows for a Scout, Dry Run, or the actual Scan capture; she chooses "Scout" (Fig. 2).

We take this quick image to confirm the patient is positioned properly and to eliminate the risk of taking a scan that does not cover the needed anatomy. At this point, we are able to reposition the patient if needed, and to decrease or increase the height and position of the scan (Fig. 3). Once we have made adjustments and verified the patient's position, the scan is taken. These steps take only a few minutes, start to finish.

As an added bonus, the touchscreen delivers and tracks the scan and dose information per patient. Being

able to track this information aligns with my in-office radiation protocol and philosophy. When a scan is complete, I open it in Tx STUDIO (Fig. 4) where I have a collection of integrated and highly useful tools, including those specific to orthodontics. There are also tools specific to other procedures such as those involving airway and implants.

Fast, efficient workflow

SmartScan STUDIO comes with a variety of pre-loaded scans. However, I can create my own scans choosing from modality, size, position and voxel. I do this very easily in three steps within the software's simple builtin menu (Fig. 5). Once I create a scan, I give it a name, and it shows up on the initial "scan" screen—where I can rearrange scans according to which ones I use most often, including QuickScan+ (Fig. 6). This makes for fast workflow.

As I stated earlier, we usually set for the lowest dose, but having the option of increasing as necessary gives me the control I was looking for in a 3D cone beam system.

CALL: 800-205-3570 CLICK: i-cat.com CIRCLE: RS NO. 114 SCAN:





■ HOWTO

CREATE HIGHLY ESTHETIC MONOLITHIC ZIRCONIA CROWNS

3M ESPE's Lava Plus High Translucency Zirconia offers both outstanding esthetics and strength.

by DR. GARY ALEX Information provided by 3M ESPE.

In 2002, a zirconia-based ceramic system was introduced that used CAD/CAM technology to produce high-strength zirconia copings that could then be overlaid with stacked or pressed porcelain (Lava Zirconia from 3M ESPE). This technology provided clinicians with a viable alternative to traditional porcelain fused to metal (PFM) restorations.

A potential problem surfaced when some reported excessive chipping and/ or fractures of porcelain that was layered over the zirconia substructure.^{1,2} This appeared to be largely because of poor coping design and the fact that zirconia requires very specific parameters regarding heating and cooling cycles during fabrication, to which some labs did not adhere. Once these issues were recognized and addressed, any chipping issues were significantly attenuated. In any case, the emergence of full-contour monolithic zirconia restorations has made this a non-issue, as these restorations are milled from a single block of zirconia and there is no stacked or pressed porcelain that has the potential to chip. Monolithic zirconia fixed partial dentures (crowns) have many potential advantages, including very high flexural strength, the ability to be conventionally cemented or bonded into place, the benefits of CAD/CAM technology, and the fact that they are generally less expensive than traditional PFM restorations.

Two popular full-contour monolithic materials used for single fixed partial dentures are zirconia and lithium disilicate. While zirconia offers significantly greater flexural strength (more than 900 MPa compared with 400 for lithium disilicate), lithium disilicate has generally been considered to be a better choice for use in the esthetic zone because of its greater translucency and a more natural appearance. However, a new zirconia material now offers significantly improved esthetics as well as the strength for which zirconia is known. 3M™ ESPE™ Lava™ Plus High Translucency Zirconia is based on the original Lava™ Zirconia, with new special chemistry and processing to enable more translucency and warmth, and more natural esthetics.











AT A GLANCE

- 1. The preparation on tooth No. 5 following endodontic treatment, post placement and core buildup.
- 2. A fast-setting VPS impression material was used.
- 3. Finished die.
- 4. Finished monolithic crown made with Lava Plus Zirconia 4.
- **5.** The interior surface was lightly sandblasted.
- 6. Zirconia primer was applied.
- **7.** The primer was dried with a warm air stream.
- **8.** A disposable rubber cup with pumice was used to clean the preparation.
- 9. 3M™ ESPE™ RelyX™ Luting Plus cement was loaded into the crown.
- **10.** The crown was seated and excess cement removed after four minutes.
- **11.** Occlusal view of final restoration.
- **12.** The crown exhibited an excellent match to the surrounding area.

3M™ ESPE™ LAVA™ PLUS HIGH TRANSLUCENCY ZIRCONIA **FEATURES**

- Patented shading system enables highly esthetic all-zirconia or traditionally layered restorations.
- Excellent color match to the VITA® Classical Shade Guide and VITA SYSTEM 3D-MASTER® Shades.
 - Offers both strength and beauty

SCAN:

3M ESPE 3MESPE.com

800-634-2249
CIRCLE: RS NO. 116













A zirconia's translucency is influ-

enced by two main factors: the pres-

ence of impurities and structural defects, and the alumina distribution

and content. Alumina is added to

some zirconias to maintain aging sta-

bility, but it can decrease translucency

by scattering light. To engineer Lava







Plus zirconia for both excellent aging stability and translucency, 3M ESPE reduced the alumina content in the material to 0.1 percent of its weight. The distribution of the alumina also was improved, along with other high-quality processing steps to fully optimize the material's translucency.

Custom shading capabilities

In addition to its excellent translucency, Lava Plus zirconia has a unique shading system that gives laboratories many options for custom shading and characterization. After milling a porous green-state block, the laboratory can choose from among 18 dyeing liquids that cover the 16 Vita Classical A1-D4 shades, as well as two bleach shades, to achieve custom coloring. (Lava Plus zirconia is the only system that matches the Vita Classical A1-D4 and bleached shades.) The dyeing liquid is applied and then, during the sintering step, the color ions are incorporated into the zirconia. This technique was invented by 3M ESPE, and because the dyeing liquids are designed specifically for the zirconia, dentists and labs can be assured of an excellent color match to the Vita Classical shades. When using a zirconia system without this dedicated shading system, labs must use a process of trial and error to achieve the desired color match,

which decreases efficiency as well as compromises esthetics.

While this zirconia offers excellent performance as a monolithic material, traditional layering also can be done, giving dentists and labs versatile options for achieving their esthetic goals. Whether it is used in a monolithic restoration or layered, field evaluations have shown that dentists and labs prefer the esthetics of this zirconia to many other zirconia systems, with data showing it offers significantly higher all-zirconia crown translucency.3,4

Added benefits of higher strength

The greater strength of zirconia as compared to lithium disilicate also enables dentists to preserve tooth structure during preparation. Lava Plus zirconia crowns require only 0.5 mm minimum occlusal clearance while lithium disilicate ideally should have 1.5-2 mm of clearance. This difference can be significant in posterior applications where space is often tight. With significantly greater strength and now improved esthetics, this high translucency zirconia has the potential to be used in either the posterior or anterior regions of the mouth.

The case illustrated here highlights the use of this material to create a naturallooking crown for a first bicuspid.

Case presentation

The patient presented with extensive caries and exposure of the pulp on the right first bicuspid. Endodontic treatment was completed, followed by placement of a post and core buildup.



STEP The tooth was prepped with a rounded internal shoulder preparation. A deep chamfer preparation also can be used. It is important not to have sharp line angles and to smooth and round the occlusal aspect of the preparation (Fig. 1).



STEP An automixed (Pentamix 3) heavy and syringeable light body VPS (3M™ ESPE™ Imprint 3 Penta

Quick Step Impression Material) was used to capture the impression (Fig. 2).



The case was sent to the lab, along with photographs illustrating shading. The laboratory milled the crown using Lava™ Plus Dye-

ing Liquid to customize the shade (Figs. 3 and 4).



The crown was returned to the office and tried in to confirm fit. The internal surface of the crown

was lightly sandblasted, and the crown was rinsed and air dried (Fig. 5).



Z-Prime Plus by Bisco was uniformly applied to the interior surface and dried with warm air

for 5 seconds to improve the chemical interaction (Figs. 6 and 7).



STEP The tooth was cleaned with a Pumice Preppie by Whip Mix (Fig. 8).



3M™ ESPE™ RelyX™ Luting Plus Resin-Modified Glass Ionomer Cement was dispensed onto

a mixing pad and the two pastes were mixed together for 20 seconds. The cement was applied to the internal surface of the restoration (Fig. 9).



STEP The crown was seated onto the preparation with light pressure. The pressure was maintained for

several minutes during the setting process. Once the cement reached a waxy stage, excess material was cleaned away (Fig. 10). A diamond polishing paste was used to achieve the final finish.

The final result was a highly esthetic crown that blended perfectly with the surrounding dentition (Figs. 11 and 12).

Closing thought

The simplicity of monolithic restorations makes them very attractive for dentists, but until recently they have had to carefully balance their needs for esthetics and strength to determine which material is most appropriate. The high translucency zirconia material used here illustrates the new capabilities of zirconia to deliver outstanding esthetics as well as strength. The material is offered with a 15-year warranty, and is based on the original Lava zirconia, which has an 11-year track record of reliability. With this hightranslucency zirconia, dentists have an excellent new option for creating strong and natural-looking restorations that are guaranteed to last.

REFERENCES

- 1. Heintze SD, Rousson V. Survival of zirconiaand metal-supported fixed dental prostheses: a systematic review. Int J Prosthodont. 2010 Nov-Dec;23(6):493-502.
- 2. Swain MV. Unstable cracking (chipping) of veneering porcelain on all-ceramic dental crowns and fixed partial dentures. Acta Biomater. 2009 Jun;5(5):1668-77.
- 3. Application Test Lava™ Plus High Translucency Zirconia, 11 responding dental labs in Germany, Austria, Italy, Netherlands and U.S.,
- 4. Application Test Lava™ Plus High Translucency Zirconia, 18 responding dentists in Germany, Italy and U.S., 2011.



APPLYING

MIDWEST AUTOMATE in your practice

Compiled by STAN GOFF Information provided by DENTSPLY Midwest.

The **Midwest Automate™** 4-port automated handpiece maintenance system offers accurate and consistent cleaning, lubricating and expelling, plus provides ease of use and flexibility for use with a wide range of handpieces. **STRENGTH:** Its all-steel construction is said to offer durability for a longer life, while a dedicated chuck cleaning port cleans and lubes the handpiece chucking mechanism for simpler insertion and extraction of cutting instruments.

CLEAN AND EASY: Using this maintenance system creates less mess than traditional handpiece maintenance for quick cleanup.

IMPROVED EFFICIENCY: The

system enhances efficiency and complements the way you work by effectively removing debris to promote lasting handpiece turbine life, reducing downtime to keep your staff moving.

ADDED PLUS: A handpiece count sensor allows users to run one handpiece while in a hurry, and still get a precise and consistent clean and lube cycle.





promotes lasting handpiece turbine life

ARE YOU READY TO APPLY THIS TECHNOLOGY IN YOUR PRACTICE?

DENTSPLY Midwest professional.dentsply.com.

800-989-8825 CIRCLE: RS NO. 117



Articadent® is indicated for local, infiltrative, or conductive anesthesia in both simple and complex dental procedures. For most routine dental procedures, Articadent® containing epinephrine 1:200,000 is preferred. However, when more pronounced hemostasis or improved visualization of the surgical field are required, Articadent® containing epinephrine 1:100,000 may be used. Reactions to Articadent® (pain and headache, for example, or convulsions or respiratory arrest following accidental intravascular injection) are characteristic of those associated with other amide-type local anesthetics. Articadent® contains sodium metabisulfite, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. Accidental intravascular injection may be associated with convulsions, followed by central nervous system or cardiorespiratory depression and coma, progressing ultimately to respiratory arrest. Dental practitioners and/or clinicians who employ local anesthetic agents should be well versed in diagnosis and management of emergencies that may arise from their use. Resuscitative equipment, oxygen, and other resuscitative drugs should be available for immediate use. Articadent®, along with other local anesthetics, is capable of producing methemoglobinemia. The clinical signs of methemoglobinemia are cyanosis of the nail beds and lips, fatigue and weakness. If methemoglobinemia does not respond to administration of oxygen, administration of methylene blue intravenously 1-2 mg/kg body weight over a 5-minute period is recommended.

Please see Brief Summary of Prescribing Information on adjacent page.



For more information, call 800.989.8826, or visit www.dentsplypharma.com

Articadent® (articaine HCl and epinephrine) Injection; Intraoral Submucosal Injection

Articaine hydrochloride 4% and epinephrine 1:200,000 Articaine hydrochloride 4% and epinephrine 1:100,000

BRIEF SUMMARY. [See Package Insert For Full Prescribing Information]

Articadent[®] is indicated for local, infiltrative, or conductive anesthesia in both simple and complex dental procedures. For most routine dental procedures, Articadent[®] with epinephrine 1:200,000 is preferred. Articadent[®] with epinephrine 1:100,000 is preferred during operative or surgical procedures when improved visualization of the surgical field is desirable.

CONTRAINDICATIONS

Articadent® is contraindicated in patients with a known history of hypersensitivity to local anesthetics of the amide type, or in patients with known hypersensitivity to sodium metabisulfite.

WARNINGS

WARNINGS

Accidental intravascular injection may be associated with convulsions, followed by central nervous system or cardiorespiratory depression and coma, progressing ultimately to respiratory arrest. Dental practitioners and/or clinicians who employ local anesthetic agents should be well versed in diagnosis and management of emergencies that may arise from their use. Resuscitative equipment, oxygen, and other resuscitative drugs should be available for immediate use.

Intravascular injections should be avoided. To avoid intravascular injection, aspiration should be performed before Articadent® is injected. The needle must be repositioned until no return of blood can be elicited by aspiration. Note, however, that the absence of blood in the syringe does not guarantee that intravascular injection has been avoided.

Articadent® contains epinephrine that can cause local tissue necrosis or systemic toxicity. Usual precautions for epinephrine administration should be observed.

Articadent® contains sodium metabisulfite, a sulfite that may cause allergic-type reactions including anaphylactic symptoms and life-threatening or less severe asthmatic episodes in certain susceptible people. The overall prevalence of sulfite sensitivity in the general population is unknown. Sulfite sensitivity is seen more frequently in asthmatic than in non-asthmatic people.

Articadent[®], along with other local anesthetics, is capable of producing methemoglobinemia. The clinical signs of methemoglobinemia are cyanosis of the nail beds and lips, fatigue and weakness. If methemoglobinemia does not respond to administration of oxygen, administration of methylene blue intravenously 1-2 mg/kg body weight over a 5 minute period is recommended.

The American Heart Association has made the following recommendation regarding the use of local anesthetics with vasoconstrictors in patients with ischemic heart disease: "Vasoconstrictor agents should be used in local anesthesia solutions during dental practice only when it is clear that the procedure will be shortened or the analgesia rendered more profound. When a vasoconstrictor is indicated, extreme care should be taken to avoid intravascular injection. The minimum possible amount of vasoconstrictor should be used." (Kaplan, EL, editor: Cardiovascular disease in dental practice, Dallas 1986, American Heart Association.)

PRECAUTIONS

General: Resuscitative equipment, oxygen, and other resuscitative drugs should be available for immediate use (see WARNINGS). The lowest dosage that results in effective anesthesia should be used to avoid high plasma levels and serious adverse effects. Repeated doses of Articadent* may cause significant increases in blood levels with each repeated dose because of possible accumulation of the drug or its metabolites. Tolerance to elevated blood levels varies with the status of the patient.

Debilitated patients, elderly patients, acutely ill patients and pediatric patients should be given reduced doses commensurate with their age and physical condition.

Articadent® should be used with caution in patients with heart block.

Articadent's flouid be used with caution in patients with near block.

Local anesthetic solutions, such as Articadent's, containing a vasoconstrictor should be used cautiously.
Patients with peripheral vascular disease and those with hypertensive vascular disease may exhibit exaggerated vasoconstrictor response. Ischemic injury or necrosis may result. Articadent's should be used with caution in patients during or following the administration of potent general anesthetic agents, since cardiac arrhythmias may occur under such conditions.

Systemic absorption of local anesthetics can produce effects on the central nervous and cardiovascular systems. At blood concentrations achieved with therapeutic doses, changes in cardiac conduction, excitability, refractoriness, contractility, and peripheral vascular resistance are minimal. However, toxic blood concentrations depress cardiac conduction and excitability, which may lead to atrioventricular block, ventricular arrhythmias, and cardiac arrest, possibly resulting in fatalities. In addition, myocardial contractility is depressed and peripheral vasodilation occurs, leading to decreased cardiac output and arterial blood pressure.

pressure.

Careful and constant monitoring of cardiovascular and respiratory (adequacy of ventilation) vital signs and the patient's state of consciousness should be performed after each local anesthetic injection. It should be kept in mind at such times that restlessness, anxiety, tinnitus, dizziness, blurred vision, tremors, depression, or drowsiness may be early warning signs of central nervous system toxicity.

In vitro studies show that about 5% to 10% of articaine is metabolized by the human liver microsomal P450 isoenzyme system. However, because no studies have been performed in patients with liver dysfunction, caution should be used in patients with severe hepatic disease.

Articadent® should also be used with caution in patients with impaired cardiovascular function since they may be less able to compensate for functional changes associated with the prolongation of A-V conduction produced by these drugs.

Small doses of local anesthetics injected in dental blocks may produce adverse reactions similar to systemic toxicity seen with unintentional intravascular injections of larger doses. Confusion, convulsions, respiratory depression and/or respiratory arrest, and cardiovascular stimulation or depression have been reported. These reactions may be due to intra-arterial injection of the local anesthetic with retrograde flow to the cerebral circulation. Patients receiving these blocks should be observed constantly. Resuscitative equipment and personnel for treating adverse reactions should be immediately available.

Dosage recommendations should not be exceeded (see **DOSAGE AND ADMINISTRATION** in package

Insert).

Information for Patients:

The patient should be informed in advance of the possibility of temporary loss of sensation and muscle function following infiltration and nerve block injections.

Patients should be instructed not to eat or drink until normal sensation returns.

Clinically Significant Drug Interactions: The administration of local anesthetic solutions containing epinephrine to patients receiving monoamine oxidase inhibitors, nonselective beta adrenergic antagonists or tricyclic antidepressants may produce severe, prolonged hypertension. Phenothiazines and butyrophenones may reduce or reverse the pressor effect of epinephrine. Concurrent use of these agents should generally be avoided. In situations when concurrent therapy is necessary, careful patient monitoring is essential.

essential. Carcinogenesis, Mutagenesis, Impairment of Fertility: Studies to evaluate the carcinogenic potential of articaine HCl in animals have not been conducted. Five standard mutagenicity tests, including three in vitro tests (the nonmammalian Ames test, the mammalian Chinese hamster ovary chromosomal aberration test and a mammalian gene mutation test with articaine HCl) and two in vivo mouse micronucleous tests (one with Articadent* with epinephrine 1:100,000 and one with articaine HCl alone) showed no mutagenic effects. No effects on male or female fertility were observed in rats for Articadent* with epinephrine 1:100,000 administered subcutaneously in doses up to 80 mg/kg/day (approximately two times the maximum male and female recommended human dose on a mg/m2 basis).

Pregnancy: Teratogenic Effects-Pregnancy Category C.

In developmental studies, no embryofetal toxicities were observed when Articadent[®] with epinephrine 1:100,000 was administered subcutaneously throughout organogenesis at doses up to 40 mg/kg in rab-bits and 80 mg/kg in rats (approximately 2 times the maximum recommended human dose on a mg/m2 basis). In rabbits, 80 mg/kg (approximately 4 times the maximum recommended human dose on a mg/m2 basis) did cause fetal death and increase fetal skeletal variations, but these effects may be attributable to the severe maternal toxicity, including seizures, observed at this dose.

When articaine hydrochloride was administered subcutaneously to rats throughout gestation and lactation, 80 mg/kg (approximately 2 times the maximum recommended human dose on a mg/m2 basis) increased so myrkg (approximately 2 limes tire maximum recommended numan dose on a myriz basis) increased the number of stillibirths and adversely affected passive avoidance, a measure of learning, in pups. This dose also produced severe maternal toxicity in some animals. A dose of 40 mg/kg (approximately equal to the maximum recommended human dose on a mg/m2 basis) did not produce these effects. A similar study using Articadent® with epinephrine 1:100,000 rather than articaine hydrochloride alone produced maternal toxicity, but no effects on offspring.

There are no adequate and well-controlled studies in pregnant women. Animal reproduction studies are not always predictive of human response. Articadent[®] should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Nursing Mothers: It is not known whether articaine is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when Articadent® is administered to a nursing woman.

woman.

Pediatric Use: In clinical trials, 61 pediatric patients between the ages of 4 and 16 years received Articadent® with epinephrine 1:100,000. Among these pediatric patients, doses from 0.76 mg/kg to 5.65 mg/kg (0.9 to 5.1 mL) were administered safely to 51 patients for simple procedures and doses between 0.37 mg/kg and 7.48 mg/kg (0.7 to 3.9 mL) were administered safely to 10 patients for complex procedures. However, there was insufficient exposure to Articadent® with epinephrine 1:100,000 at doses greater than 7.00 mg/kg in order to assess its safety in pediatric patients. No unusual adverse events were noted in these patients. Approximately 13% of these pediatric patients required additional injections of anesthetic for complete anesthesia. Safety and effectiveness in pediatric patients below the age of 4 years have not been established. Dosages in pediatric patients should be reduced, commensurate with age, body weight, and physical condition. See DOSAGE AND ADMINISTRATION in package insert.

Geriatric Use: In clinical trials, 54 patients between the ages of 65 and 75 years, and 11 patients 75 years and over received Articadent* with epinephrine 1:100,000. Among all patients between 65 and 75 years, doses from 0.43 mg/kg to 4.76 mg/kg (0.9 to 11.9 mL) were administered safely to 35 patients for simple procedures and doses from 1.05 mg/kg to 4.27 mg/kg (1.3 to 6.8 mL) were administered safely to 19 patients for complex procedures. Among the 11 patients ≥ 75 years old, doses from 0.78 mg/kg to 4.76 mg/kg (1.3 to 11.9 mL) were administered safely to 7 patients for simple procedures and doses of 1.12 mg/kg to 2.17 mg/kg (1.3 to 5.1 mL) were safely administered to 4 patients for complex procedures.

No overall differences in safety or effectiveness were observed between elderly subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out. Approximately 6% of patients between the ages of 65 and 75 years and none of the 11 patients 75 years of age or older required additional injections of anesthetic for complete anesthesia compared with 11% of patients between 17 and 65 years old who required additional injections.

ADVERSE REACTIONS

Reactions to Articadent® are characteristic of those associated with other amide-type local anesthetics. Adverse reactions to this group of drugs may also result from excessive plasma levels (which may be due to overdosage, unintentional intravascular injection, or slow metabolic degradation), injection technique, volume of injection, hypersensitivity, or may be idiosyncratic.

The reported adverse events are derived from clinical trials in the US and UK. Table 1 displays the adverse events reported in clinical trials where 882 individuals were exposed to Articadent[®] with epinephrine 1:100,000 and Table 2 displays the adverse events reported in clinical trials where 182 individuals were exposed to Articadent[®] with epinephrine 1:100,000 and 179 individuals were exposed to Articadent[®] with epinephrine 1:200,000.

Table 1. Adverse Events in controlled trials with an incidence of 1% or greater in patients administered Articadent® with epinephrine 1:100,000.

man epinepinine 1.100,000.				
Body System	Articadent® with epinephrine 1:100,000 N (%)			
Number of patients	882 (100%)			
Body as a whole				
Face Edema	13 (1%)			
Headache	31 (4%)			
Infection	10 (1%)			
Pain	114 (13%)			
Digestive system				
Gingivitis	13 (1%)			
Nervous system				
Paresthesia	11 (1%)			

Table 2. Adverse Events in controlled trials with an incidence of 1% or greater in patients administered Articadent[®] with epinephrine 1:100,000 and Articadent[®] with epinephrine 1:200,000.

Number of patients exposed to drug	Articadent® with epinephrine 1:100,000 (N=182)	Articadent® with epinephrine 1:200,000 (N=179)
Number of patients that reported any Adverse Event	35	33
Pain	14 (7.6%)	11 (6.1%)
Headache	6 (3.2%)	9 (5.0%)
Positive blood aspiration into syringe	6 (3.2%)	3 (1.6%)
Swelling	5 (2.7%)	3 (1.6%)
Trismus	3 (1.6%)	1 (0.5%)
Nausea and emesis	0 (0%)	3 (1.6%)
Sleepiness	1 (0.5%)	2 (1.1%)
Numbness and tingling	2 (1.0%)	1 (0.5%)
Palpitation	2 (1.0%)	0 (0%)
Ear symptoms (earache, otitis media)	2 (1.0%)	1 (0.5%)
Cough, persistent cough	2 (1.0%)	0 (0%)

The following list includes adverse and intercurrent events that were recorded in 1 or more patients, but occurred at an overall rate of less than one percent, and were considered clinically relevant.

Body as a Whole: abdominal pain, accidental injury, asthenia, back pain, injection site pain, burning sensation above injection site, malaise, neck pain.

Cardiovascular System: hemorrhage, migraine, syncope, tachycardia, elevated blood pressure

Digestive System: constipation, diarrhea, dyspepsia, glossitis, gum hemorrhage, mouth ulceration, nausea, stomatitis, tongue edemas, tooth disorder, vomiting.

Hemic and Lymphatic System: ecchymosis, lymphadenopathy

Metabolic and Nutritional System: edema, thirst.

Musculoskeletal System: arthralgia, myalgia, osteomyelitis.

Nervous System: dizziness, dry mouth, facial paralysis, hyperesthesia, increased salivation, nervousness, neuropathy, paresthesia, somnolence, exacerbation of Kearns-Sayre Syndrome.

Respiratory System: pharyngitis, rhinitis, sinus pain, sinus congestion.

Skin and Appendages: pruritus, skin disorder.

Special Senses: ear pain, taste perversion.

Urogenital System: dysmenorrhea.

Persistent paresthesias of the lips, tongue, and oral tissues have been reported with use of articaine hydrochloride, with slow, incomplete, or no recovery. These post-marketing events have been reported chiefly following nerve blocks in the mandible and have involved the trigeminal nerve and its branches.

Hypoesthesia has been reported with use of articaine, especially in pediatric age groups, which is usually reversible. Prolonged numbness can result in soft tissue injuries such as that of the lips and tongue in

Ischemic injury and necrosis have been described following use of articaine with epinephrine and have been postulated to be due to vascular spasm of terminal arterial branches. Paralysis of ocular muscles has been reported, especially after posterior, superior alveolar injections of articaine during dental anesthesia. Symptoms include diplopia, mydriasis, ptosis, and difficulty in abduction of the affected eye. These symptoms have been described as developing immediately after injection of the anesthetic solution and persisting one minute to several hours, with generally complete recovery.

OVERDOSAGE

Acute emergencies from local anesthetics are generally related to high plasma levels encountered during therapeutic use of local anesthetics or to unintended subarachnoid injection of local anesthetic solution (see WARNINGS, PRECAUTIONS; General and ADVERSE REACTIONS).

Management of Local Anesthetic Emergencies: The first consideration is prevention, best accomplished by careful and constant monitoring of cardiovascular and respiratory vital signs and the patient's state of consciousness after each local anesthetic injection. At the first sign of change, oxygen should be administered.

The first step in the management of convulsions, as well as hypoventilation, consists of immediate attention to the maintenance of a patient airway and assisted or controlled ventilation as needed. The adequacy of the circulation should be assessed. Should convulsions persist despite adequate respiratory support, treatment with appropriate anticonvulsant therapy is indicated. The practitioner should be familiar, prior to the use of local anesthetics, with the use of anticonvulsant drugs. Supportive treatment of circulatory depression may require administration of intravenous fluids and, when appropriate, a vasopressor.

If not treated immediately, both convulsions and cardiovascular depression can result in hypoxia, acidosis, bradycardia, arrhythmias and cardiac arrest. If cardiac arrest should occur, standard cardiopulmonary resuscitative measures should be instituted.

HOW SUPPLIED

Articadent® (articaine HCl and epinephrine) Injection is available in 1.7 mL single use glass cartridges, packaged in boxes of 50 cartridges in the following two strengths:

NDC 66312-602-16 Articadent® containing articaine HCl 4% (40 mg/mL) and epinephrine 1:200,000 (as epinephrine bitartrate 0.009 mg/mL)

NDC 66312-601-16 Articadent* containing articaine HCl 4% (40 mg/mL) and epinephrine 1:100,000 (as epinephrine bitartrate 0.018 mg/mL)

Manufactured for:

DENTSPLY Pharmaceutical, York, PA 17404 by

Novocol Pharmaceutical of Canada, Inc.

Cambridge, Ontario Canada N1R 6X3



MORE PRODUCTS YOU SHOULD KNOW ABOUT...



Ó

Protocol

HOW TO TAKE ACCURATE PHOTOGRAPHS AND IMPRESSIONS FOR INVISALIGN TREATMENT

Technique tips for dental assistants during Invisalign treatment planning.



Five Reasons to Buy

PATTERSON DENTAL'S EAGLESOFT 17

The benefits of this upgraded practice management software.



Five Reasons to Buy

COLGATE'S PREVIDENT VARNISH

A closer look at this high-fluoride in-office treatment.

102-

106

10-

93

PUT CONTROL IN YOUR PATIENTS' HANDS

With Opalescence Go, you can get the quality of in-office whitening treatments with the convenience of an at-home product.

by shannon pace brinker, cda, cdd, editor for contemporary product solutions

Did you know...

Opalescence Go offers a more convenient and affordable option than traditional teeth whitening systems, but maintains the power of a professional whitener. Every day, more Americans look for ways to enhance their smiles.

Many patients choose whitening treatments to quickly and effectively improve the appearance of their teeth and overall smiles. A study completed by Dunn *et al* found that tooth shade played the most significant role in determining the esthetics of a smile. ¹ Not only is the whiteness of a person's smile among the first characteristics people notice in others, but visible differences in the shade of someone's teeth detracts from their overall appearance. ^{1,2} Not surprisingly, more patients are relying on dental professionals to enhance their smiles and achieve the results they desire.

To meet this demand, tooth whitening products and procedures represent a majority of esthetic treatments in modern dentistry. ^{3,4} The non-invasive nature

of whitening treatments, combined with their costeffectiveness, provide the safest and most efficient way to improve a patient's smile.5 However, choosing the best whitening agent and delivery method for a patient requires care, because some products can be harsh and increase the likelihood of soft-tissue irritation and burns.⁶ Even with this precaution, teeth whitening quickly generates positive results efficiently and cost effectively for both the patient and dental office.

Whitening considerations

Several factors should be considered before selecting teeth whitening as a treatment. Some indications for teeth whitening include tooth discoloration caused by endodontic treatments, fluorosis, medications, food, drink, and age. Patients with tooth stains resulting from these factors prove to be the ideal candidates for successful teeth whitening.

However, whitening veneers, crowns and other prior restorative work only affects the underlying tooth structure and around the margins; while doing so can help to revitalize the appearance of prior dentistry, the restorations themselves won't whiten. Therefore, patients with prior restorations are not ideal candidates for teeth whitening. ⁷⁻⁹

Another contraindication includes failed restorations, which should be replaced first instead of whitened to improve esthetics. Additional factors to consider are the vitality of the pulp, presence or absence of symptoms, and the presence or absence of periapical pathoses to determine whether an internal or external bleaching approach is appropriate. 10,11

Choosing the best option

Proper patient assessment provides a foundation for the best possible outcomes. After determining whitening is the appropriate treatment for enhancing a patient's smile, a variety of materials, procedures and products are available. These include in-office treatments, at-home treatments, various chemical compositions of whitening agents, and a variety of applications.

Two factors that determine a whitening treatment's success are the concentration of the whitening agent and the amount of time the teeth are exposed to the whitening substance. 12-14 Used successfully as a whitening agent, different concentrations of carbamide peroxide have been shown to cause some sensitivity during and post whitening treatment. 15 Another common adverse effect,

tooth sensitivity, frequently exists during and post whitening treatment.¹⁶

In addition to the chemical effects of most whitening treatments, inconvenience, cost, and discomfort affect whitening success. Some techniques require in-office appointments, while others can be done at home but require in-office visits for impressions and models. In-office treatments can be expensive and time-consuming for practice team members and patients.

At-home products can be more affordable but may lack the whitening efficacy needed to achieve the patient's desired result. Finally, some pre-fabricated at-home or inoffice trays and strips can be uncomfortable and time-consuming. The fit of trays and their ability to maintain contact between the whitening agent and the teeth play a large role in a whitening treatment's success. ^{12,13} With the increase in requests for whitening treatments, the development of a practical, cost-effective, and successful at-home whitening product is in demand.

Opalescence Go

A recently introduced, dentist-dispensed at-home whitening system, Opalescence Go from Ultradent Products (ultradent.com), offers professional quality whitening with the convenience of pre-filled trays that are ready for use at any time. It is ideal for the on the go lifestyle, helping save dental offices and patients time. The UltraFit® trays provide an adaptable and comfortable whitening experience and represent a solution for expensive, time consuming, and uncomfortable whitening treatments. Opalescence Go creates a cost-effective, easy to use, and highly esthetic whitening experience.

The Opalescence Go bleaching agent formula also provides a safe treatment option. In both the 10% and 15% hydrogen peroxide concentrations, the formula contains potassium nitrate and fluoride. Potassium nitrate helps to increase patient comfort by reduc-



AUNT 59

Opalescence Go

This new dentist-dispensed at-home whitening system offers professional quality whitening with the convenience of pre-filled trays patients can use at any time.

Your Patients Don't Have a Money Tree



Flexi-Overdenture®

Flexi-Overdenture produces quick, easy, economical results completely at chairside. You'll feel the snap when the denture is seated.

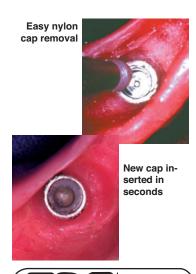
It's highly retentive, easy to place, easy to use, and easy to clean!

The optional EZ-Change cap insert system allows worn nylon cap replacement in seconds, considerably shortening chair time.²⁻³

Interested? Circle Product Card No. 120

*Musikant, B.L., Cohen, B.I., Deutsch, A.S. Replacement Insert Makes Denture and Post Connection Easier. Dentistry Today. 1995;14(11):116-117.

Cohen Bl, Musikant BL, Pagnillo M, Condos S, Deutsch AS. Comparative study of two precision overdenture attachment designs. Prosthet Dent 1996;76(2):145-152.Leung, T, Preiskel, HW. Retention Profiles of Stud-Type Precision Attachments. International Journal of Prosthodontics. 1991;4:175-179. US Patent Nos. 4,480,997, 4,490,116, 5,413,480, and Re. 31,948 and Foreign Patents.





89 Leuning Street, S. Hackensack, NJ 07606

1-800-22-FLEXI

TEL: (201) 487-9090 E-MAIL: info@edsdental.com FAX: (201) 487-5120 www.edsdental.com

CEAPPROVED PRODUCTS

All Essential Dental Systems Products Are Backed By A 30-Day Satisfaction Guarantee

STABILOK

- the gold standard for dentin pins



- Stabilok pins self-shear at the correct point every time with total reliability
- Hygienic packaging with each pin in its own individual compartment
- Easy removal of a pin from its compartment by simply inverting the box
- small dia 0.60mm
- STAINLESS STEEL small dia 0.60mm
- medium dia 0.76mm
- STAINLESS STEEL
- medium dia 0.76mm

STABILOK DENTIN PINS

STANDARD KIT (20pins +1 drill) Titanium or Stainless Steel

ECONOMY KIT (100pins + 5 drills)Titanium or Stainless Steel

A product of FAIRFAX DENTAL

Available from your local dealer



Use with standard latch-type contra-angle handpiece

Any questions - please contact us!

STABIDENT

-the ultimate intraosseous local anesthesia system

Stabident DVD

- Interviews with dentists and patients
- Intra-oral film footage of Steps1,2 and 3

As easy as 1,2,3!



Step1. Anesthetizing the attached gingiva using the Injection needle



Step2. Perforating the cortical plate using the Perforator



www.stabident.com

- Advantages of intraosseous anesthesia
- Stabident components and procedure
- Related topics including comparison with Intraligamentary-Injection
- Clips from Stabident DVD



Step3. Inserting the Injection-needle in the perforation

STABIDENT SYSTEM

STANDARD KIT 20 Perforators 20 Injection-needles

ECONOMY KIT 100 Perforators 100 Injection-needles

A product of **FAIRFAX DENTAL** Tel: 1-800-233-2305 e-mail: fairfax@stabident.com www.stabident.com

Interested? Circle Product Card No. 121



Fig. 1 Remove the Opalescence Go UltraFit tray from the package.



Fig. 2 Center the tray on the upper arch.



Fig. 3 Suck down or make a swallowing motion to secure the tray on the teeth.



Fig. 4 Once the tray is secured, remove the colored outer tray.



Fig. 5 Suck down or make a swallowing motion again.



Fig. 6 If necessary, tap the inner transparent tray to further adapt it to the smile.



Figure 7. Trays are worn once a day, with the wear time varying depending on the concentration.

mint, melon, and peach flavors and allows for a 30-to-60 minute wear time. The 15% hydrogen peroxide concentration allows for a wear time of 15 to 20 minutes and is available in mint. Both concentrations achieve results in 5 to 10 days, and the variation offers dentists the opportunity to select the ideal concentration based on patient preferences and needs. Opalescence Go take-home kits include 4 or 10 pre-filled trays and instructions.

ing tooth sensitivity during and after treatment. The addition of fluoride to the whitening gel has been shown to reduce caries and strengthen enamel. The combination of potassium nitrate with fluoride in the whitening gel works to improve the overall health of the teeth, while the formula increases comfort and, therefore, the likelihood of successful whitening. 15,17-20

Another aspect of this efficacious whitening gel formula is the active whitening agent. With the two concentrations available with Opalescence Go, clinicians and patients have choices, making for a customized experience. The 10% hydrogen peroxide concentration gel comes in

The trays

With the UltraFit trays, Opalescence Go easily conforms to any patient's individual dentition, providing comfortable wear throughout the treatment. It offers molar-to-molar coverage and ensures the gel contacts more posterior teeth than previous take-home systems.

The pre-filled trays are so convenient that they can be worn right out of the package, further saving dental team members and patients time. The whitening trays are discreet and allow for easy whitening anywhere, including on the go. Without the need for impressions, models, and

lab time, Opalescence UltraFit trays offer complete contact and universal comfort.

Your patients are in control

The Opalescence Go system puts control in your patients' hands. By allowing patients to determine when they are content with the whitening effect, the patient's satisfaction can be ensured.²¹

Patients receive appropriate assessment, directions, and treatmentplanning, because Opalescence Go is only dispensed at dental offices. This benefits both clinicians and patients by encouraging a conservative method for smile enhancement. ²¹ Unlike in-office whitening treatments, patients can choose flavors, concentrations, and tray wear time. Opalescence Go also easily adapts to a patient's lifestyle and budget.

Prescribing take-home kit

After dental professionals complete the initial examination and assessment and determine that a patient is a candidate for teeth whitening, a baseline tooth shade is taken, after which the appropriate concentration, flavor and size of the Opalescence Go whitening kit can be determined. Kits include pre-filled trays and easy to follow instructions.

Once dispensed, dental assistants can easily explain Opalescence Go instructions to patients.

Secure Retention when you want it

Retrievability when you need it

Unique Elastomeric Qualities

Secure Retention

Strength and durability of resin cements for long lasting hold

Retrievable

Mechanical retention only - not chemical - allows future restoration removal for retreatment or adjustments

No Flouride

Non-fluoride formulation safe for all alloys including titanium. Tight marginal seal protects implant from potentially corrosive high fluoride environments.¹

Easy to Use

No adhesives or primers. Package comes complete with automix syringe and mixtips.



Premier® Dental Products Company 888-670-6100 • www.premusa.com



The pre-filled trays and discreet look allow for use anywhere. They are ready for use instantly and do not require dental office or patient preparation.

The breakthrough science of comfortable injections

Introducing

DentalVibe GEN 3

Harnessing the Gate Control Theory, to block injection pain.

Received accolades from the discoverer of the Gate Control Theory.

"Dear Steven,

(Steven G. Goldberg, DDS - Inventor of DentalVibe)

You've found an interesting and clinically useful way to diminish pain!
Good for you!

Best Wishes,

Dr. Ronald Melzack









Laser Calibrated Comfort Tip



Social Media Patient Referral Program



Interested? Circle Product Card No. 123

Call Now! Learn more and reserve yours: 877.503.VIBE (8423) | DENTALVIBE.COM

PRODUCTS IN PRACTICE



A view of a patient's shade before usina Opalescence Go.

The first step is to remove the Opalescence Go UltraFit tray from the package (Fig. 1). Then, the tray is centered on the upper arch (Fig. 2). Next, patients suck down or make a swallowing motion to secure the tray on the teeth (Fig. 3). Once the tray is secured, the colored outer tray is removed (Fig. 4), and the patient swallows again (Fig. 5). If necessary, the inner transparent tray can be tapped to further adapt it to the smile (Fig. 6). The process is repeated for the lower arch tray.

The amount of time patients should wear the trays depends on the concentration dispensed. If they have the 10% hydrogen peroxide option, patients should wear the trays once a day for 30 to 60 minutes (Fig. 7). If they're using the 15% hydrogen peroxide concentration, they should wear the trays for 15 to 20 minutes. The length of time varies depending on the patient's desired results. Once the time is up, patients remove and discard the tray and then brush their teeth, being careful not to swallow the remaining gel.

A convenient way to whiten

With the increased demand for cost-effective ways to quickly improve patients' smiles, new dental products and materials are introduced constantly. Although still a go-to solution for many patients, in-office and take-home whitening treatments can be expensive, time consuming and uncomfortable. Emphasizing convenience and results, Opalescence Go offers professional quality whitening for patients with an on-the-go lifestyle. Its variety of hydrogen peroxide concentrations, patient-friendly flavors, and wear time make it an ideal dentist-dispensed solution for both patients and dental teams. •

REFERENCES

- 1. Dunn WJ, Murchison DF, Broome JC. Esthetics: patients' perceptions of dental attractiveness. J Prosthodont. 1996;5(3):166-
- 2. Samorodnitzky-Naveh GR, Geiger SB, Levin L. Patients' satisfaction with dental esthetics. J AM Dent Assoc. 2007;138(6):805-
- 3. Swift EJ. Critical appraisal: effects of bleaching on tooth structure and restorations, part ii: enamel bonding. J Esthet Restor Dent. 2008;20(1):68-73.
- 4. Sarrett DC. Tooth whitening today. J Am Dent Assoc. 2002;133(11):1535-8; quiz 1541.
- 5. Burrows S. A review of the safety of tooth bleaching. Dent Update. 2009;36(10):604-6, 608-10, 612-4.
- 6. Goldberg M, Grootveld M, Lynch E. Undesirable and adverse effects of tooth whitening products: a review. Clin Oral Investig. 2010;14(1):1-10. Epub 2010 Jun 20.



A view of a patient's shade after using Opalescence Go.

- 7. Sulieman M. An overview of tooth discoloration: extrinsic, intrinsic and internalized stains. Dent Update. 2005;32(8):463-4,
- 8. Viscio D, Gaffar A, Fakhry-Smith S, Xi T. Present and future technologies of tooth whitening. Compend Educ Dent Suppl. 2000;(28):S36-43; quiz S49
- 9. Hattab FN, Qudeimat MA, al-Rimawi HS. Dental discoloration: an overview. J Esthet Dent. 1999;11(6):291-310.
- 10. Kwon SR.Whitening the single discolored tooth. Dent Clin North Am. 2011 Apr;55(2):229-39, vii.
- 11. Abbott P, Heah SY. Internal bleaching of teeth: an analysis of 255 teeth. Aust Dent J. 2009 Dec;54(4):326-33.
- 12. Heymann HO. Facts and fallacies. BR Dent J. 2005:198(8):514.
- 13. Haywood VB, Heymann HO. Nightguard vital bleaching. Quintessence Int. 1989;20(3):173-176.
- 14. Havwood VB. Historical development of whiteners: clinical safety and efficacy. Dent Update. 1997;24(3):98-104.
- 15. Basting RT, Rodrigues AL Jr, Serra MC. The effects of seven carbamide peroxide bleaching agents on enamel microhardness over time. J Am Dent Assoc. 2003;134(10):1335-42.
- 16. Jorgensen MG, Carroll WB. Incidence of tooth sensitivity after home whitening treatment. J Am Dent Assoc. 2002;133(9):174.
- 17. Al-Qunaian TA. The effect of whitening agents on caries susceptibility of human enamel. Oper Dent. 2005;30(2):265-70.
- 18. Clark LM, Barghi N, Summitt JB, Amaechi BT. Influence of fluoridated carbamide peroxide bleaching gel on enamel demineralization. J Dent Res 85(Spec Iss A): 0497, 2006 (www. dentalresarch.org)
- 19. Amaechi BT, Clark LM, Barghi N, Summitt JB. Enamel fluoride uptake from fluoridated carbamide peroxide bleaching gel. J Dent Res 85(Spec Iss A): 0498, 2006 (www.dentalresarch.
- 20. Browning WD, Myers M, Downey M, Pohiola RM, Brackett WW. Report on low sensitivity whiteners. J Dent Res 85(Spec Iss A): 1650, 2006 (www.dentalresearch.org)
- 21. Milnar FJ. Boosting patient esteem and satisfaction with whitening. Inside Dent. 2009;5(9): 42-47.

CALL: 888-230-1420 **CLICK: ultradent.com** CIRCLE: RS NO. 119





ENAMEL PRO_®

Three minty flavors, one lustrous smile!

Enamel Pro® prophy paste line offers the most comprehensive mint selection in the market. The fresh clean feeling that mint flavors provide your patients is *a functional benefit.*

- Strengthen their smiles -Enamel Pro® delivers 31% more fluoride uptake¹
- Enamel Pro creates increased luster^{2,3}
- The colorful swirl design, aroma and flavors appeal to patients and professionals
- Gluten-free

4+1 FREE!

Buy any four boxes of **Enamel Pro Prophy Paste,** get one box FREE!*

Order through your authorized dealer.





Premier® Dental Products Company 888-670-6100 • www.premusa.com

* Offer valid 11/1/13 through 12/31/13. Redeem by 1/15/14. 1-3 Data on file. / *ARM & HAMMER is a registered Trademark

99

HOW TO TAKE ACCURATE PHOTOGRAPHS AND IMPRESSIONS FOR INVISALIGN TREATMENT

Technique tips for dental assistants during Invisalign treatment planning.

by shannon pace brinker, cda, cdd

Dental assistants create the foundation for a variety of dental treatments, including orthodontic treatment planning for Align Technology's Invisalign cases. Among their many roles, dental assistants and dental team members are responsible for facilitating the various tasks associated with record taking.

Photographic and impression records are essential to the success of these endeavors. Therefore, education and practice are necessary to consistently produce accurate and detailed information. With ongoing education, implementing new techniques and procedures can ensure proper protocols are followed, while practice develops ample experience and the ability to adjust to each unique patient.

By combining education and practice with technique tips from experienced dental assistants, the highest likelihood for obtaining accurate records can be realized.

Treatment planning for Invisalign

Invisalign treatment planning, in particular, involves assembling patient alignment infor-





Align Technology's Invisalign SmartTrack aligner material is designed to more precisely conform to tooth morphology, attachments and interproximal spaces for improved control of tooth movement.

mation, eight photographs, and upper/lower impressions.³ Invisalign uses these records to create aligners that are unique to each patient and are essential to the orthodontic treatment's success. Dental assistants are generally responsible for the majority of Invisalign record taking. The process begins with an evaluation that includes several questions regarding the patient's current tooth alignment and the anticipated final results.

Accurate dental photography in the orthodontic treatment planning process requires proper equipment, correct camera settings, and experience for optimum results. The eight photographs needed for Invisalign treatment represent the patient both extraorally and intraorally and include full-face and retracted images. Impressions also require proper materials, as well as an ability to ensure patient comfort, because impressions can cause distress and gagging that can result in compromised intraoral details. Dental assistants are responsible

for taking, organizing and submitting all of this information to facilitate proper fitting orthodontic appliances. Inaccurate records can lead to retakes, extra time, costly materials, unhappy patients, and ill-fitting aligners that result in poor treatment outcomes.

Technique tips

Obtaining accurate photographs is more involved than using a "point and shoot" camera. The recommended equipment includes a digital single lens reflex (DSLR) camera, neutral background, and flash. While a DSLR camera is an investment, it is important for capturing clear images.4 However, understanding the camera and its settings plays a larger role in photographic accuracy. By learning about exposure, specifically aperture, shutter speed, and film speed, the camera can be set correctly for each particular photograph. Additionally, the histogram feature can be used for instant exposure verification to ensure the image is clear and accurate.

You've Had Your Website Since

WERE ONLY HEARD FROM BIRDS.

The Internet moves fast. Are you keeping up?



UPGRADE TO A COMPLETE WEB PRESENCE

Customizable Websites | Search Engine Optimization | Mobile Websites | Reputation Monitoring | Social Media | Patient Education

Interested? Circle Product Card No. 125

Up to 40% Off Website Packages CALL 877-638-8915 FOR DETAILS OR VISIT GO.OFFICITE.COM/SIMPLE





Fig. 1 Using Heraeus Flextime Putty, knead and fold the catalyst and base. Load the putty around the tray making sure you have a good even amount of material.



Fig. 2 Make indentations where the teeth should be with your finger before tray placement.



Fig. 3 Add the Correct Flow wash right on top of the putty and seat into the patient's mouth.



Fig. 4 Seat the tray into the mouth. When the time is complete, remove the impression.



Invisalign records.



Fig. 5 Left buccal photos for Fig. 6 Lowerfull-arch mirror photo.



Fig. 7 Retracted biting together photos.



Fig. 8 Right buccal photos for Invisalign records.

Besides mastering the camera and its settings, dental assistants can be responsible for taking the actual photographs. After selecting an appropriate background, choosing the most effective retractors for photographic purposes is also helpful. The eight required images are all different, but they are all important for creating a successful Invisalign aligner. To capture them accurately, it is essential to know the optimal way to take each photograph.

To capture the correct patient features, it is necessary to look at the frame, aim, and focus. For full-face smile and rest pictures, the frame includes the top of the head to below the chin. The aim focuses on the nose and is perpendicular to the face. The patient's right side profile also is framed in the same way as full-face pictures and is the final extraoral image. The anterior picture includes the second molar to the second molar. The aim is perpendicular to the face and focused on the centrals. The right and left lateral frames should maximize the exposure of the right or left region, which can be accomplished by pulling the retractor toward the respective ear. The aim is perpendicular to the buccal segment and focuses on the molar and cuspid relationship.

The final two photos are of the maxillary occlusal and mandibular occlusal frame. The main emphasis of these shots is to not leave any teeth out of the photo.

Focusing the camera in the center of the plate and keeping the nose out of the frame completes these images.

When taking impressions for Invisalign treatment planning and record taking, the goal is to accurately record the intraoral structures.3 The greatest interference dental assistants experience while taking impressions is patient discomfort. This can present itself in several forms, including fear, distress and gagging.5 By avoiding patient discomfort, dental assistants can create predictable and accurate results on the first attempt. Invisalign training materials focus on using a one-step technique to create the impressions.3 This technique, in combination with a VPS impression material, allows for maximum patient comfort and the most efficient impression-taking procedure.

Clinical recordtaking technique

- 1. After the patient was determined to be a suitable candidate for Invisalign treatment, proper assessment of the patient and his alignment needs was completed, and an Invisalign case was selected.
- 2. Photographic records were obtained by setting up a neutral and plain background. The dental assistant used a DSLR camera and ideal photography
- 3. Eight photographs were taken, including:

- (1) Full face at rest
- (2) Full face smiling
- (3) Right side profile
- (4) Retracted anterior frontal
- (5) Buccal right
- (6) Buccal left
- (7) Maxillary occlusal
- (8) Mandibular occlusal
- The images were then uploaded to the Invisalign website and patient profile, along with additional patient information.
- 4. VPS impressions, both upper and lower, were taken using VPS/PVS material. After the allotted time, the impressions were set, disinfected, and packaged for shipment.
- 5. The treatment plan was reviewed and submitted, and the impressions were shipped for fabrication of the customized Invisalign aligners.

The foundation for case planning

Invisalign treatment planning ensures the correct fit and function of the customized aligners for the patient. It is essential to the final result and successful nature of the treatment and is predicated on accurate photographs and impressions to aid in the development of the orthodontic appliances. Dental assistants and team members perform these record-taking and treatment planning tasks, creating the foundation for case planning. To produce the requisite photographs accurately, the proper camera is required. Beyond that, knowledge of the ideal camera settings and the best way to capture the specific necessary images is essential. The materials, as well as the dental assistant's ability to avoid patient discomfort, strongly influence the accuracy of impressions.

REFERENCES

- 1. Nuckles DB, McCall WJ Jr, Jones CR. Close-up photography in the dental office. J Am Dent Assoc. 1975;90(1):152-8.
- 2. Farrier S. Pretty IA. Lynch CD. Addy LD. Gagging during impression making: techniques for reduction. Dent Update. 2011;38(3):171-2, 174-6.
- 3. Align Technology, Inc. Invisalign: A quick start guide. San Jose, CA: Align Technology, Inc; 2013:1-14.
- 4. Goodchild JH. Donaldson M. Getting the right shots! Tips and tricks for consis tent photographic excellence. Dent Today. 2013;32(3):112, 114-8.
- 5. Armfeld JM. Towards a better understanding of dental anxiety and fear: cognitions vs. experiences. Eur J Oral Sci. 2012;118(3):259-
- 6. Kerr Sybron Dental Specialties. AlgiNot: Product brochure. Orange, CA: Kerr Dental;

CALL: 408-470-1000 **CLICK**: invisalign.com CIRCLE: RS NO. 126





Orascoptic



ELEVATING DENTISTRY

Shattering the status quo



The world's **FIRST** wireless loupe + headlight in one Magnification - Illumination - Ergonomics



Call **800-369-3698** or visit Orascoptic.com/DPR to see the Award-Winning XV1 from Orascoptic







800 369 3698 orascoptic.com





HERE'S SOMETHING ELSE THAT CAN HELP—

Comfortable gloves like the 100% synthetic nitrile polymer Nitricare Nitrile Gloves from JP Solutions (jpsolutionsbrands.com).

Easy-to-use profective covers

FLOW DENTAL'S SAFE'N'SURE OPT PSP ENVELOPES

Compiled by RENEE KNIGHT
Information available at flowdental.com.

0

Safe'n'Sure OPTs feature pre-loaded cardboard inserts for effortless loading and are especially designed for plates with magnets, offering enhanced office workflow, improved efficiency in re-bagging, and proper plate alignment.

The pre-loaded cardboard inserts don't require assembly and are a great time-saver. The circular cut-out on the cardboard insert prevents the plate from being loaded incorrectly, which means proper plate positioning every time.

Flow's patented EZ-Glide tab acts as a landing strip to help load plates quickly and correctly. After loading, the extended size of the EZ-Tab makes it quick and easy to seal the protective cover.

The butterfly tear-away seal design allows users to tear along the center seam to expose the plate to the reader. It's quick, easy and helps extend the life of your plates.

Available in sizes 0, 1, 2, and 3 and works with all plates with magnet systems.



CALL: 800-247-3368 CIRCLE: RS NO. 128 SCAN:



AFTER YOU BUY, BE SURE TO HAVE

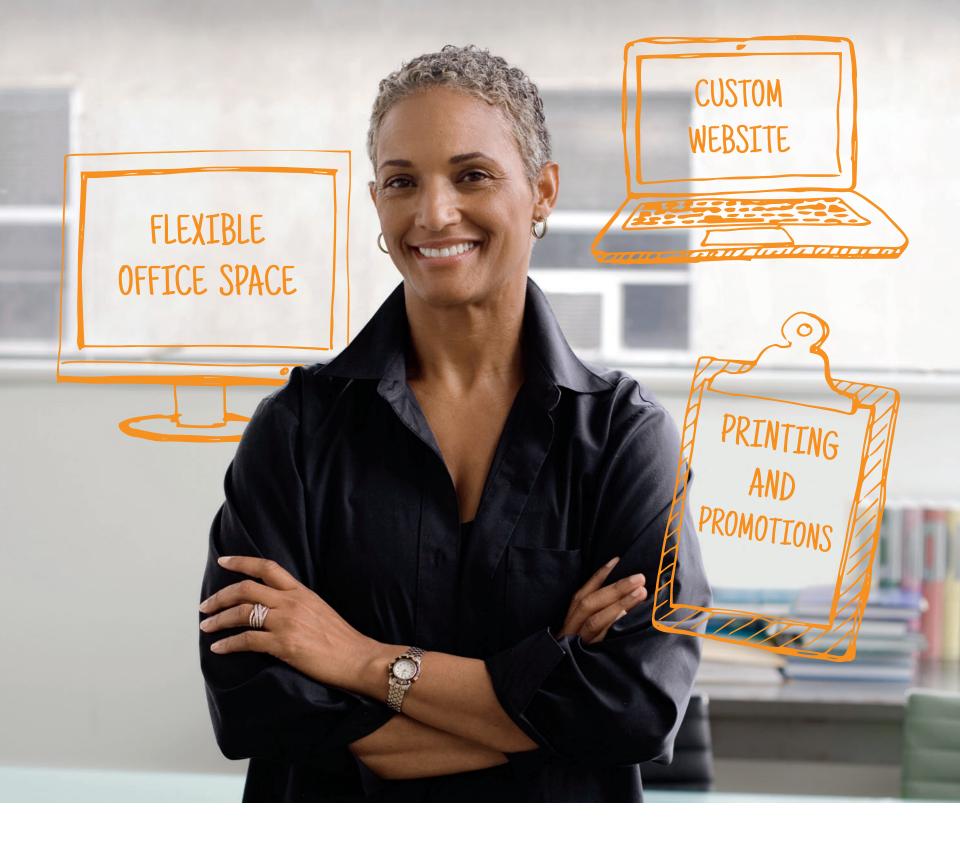
Bite wing sensor holders
Bite block covers
You can find these @
products.dentalproductsreport.com.

Flow Dental's Sensibles



Flow Dental's Bit Block Baggies





With over 60 services at OfficeMax®, I've got the silent partner I always wanted.

The *new* OfficeMax Services Center gives me one-stop access to the services I need to run my business so that I can focus on moving it forward.



Gain flexibility for your business by adding professional places to work and meet wherever and whenever you need it.



Maximize your online visibility with a personalized domain name and custom website package.



Build your brand and promote your business with printing and design services from quick copies to oversized banners.







HERE'S SOMETHING ELSE THAT CAN HELP—

Comfortable seating like the ErgoSure stool line from DentalEZ (dentalez.com)

Simplify your daily routine

PATTERSON DENTAL'S EAGLESOFT 17 PRACTICE MANAGEMENT SOFTWARE

Compiled by RENEE KNIGHT Information available at Eaglesoft.net.

O

Eaglesoft 17 now has customized medical history

allowing users to ask the questions they want—making it easier to gather the information needed for each specific appointment—with increased security on provider and patient notes.

Eaglesoft Web (coming early 2014) enables users to view their schedule, patient accounts, medical history, prescription history, proposed treatment and clinical images while they are away from the office.

More frequent updates. With Patterson Auto Update, users will now receive more frequent software updates through a Web connection, rather than installing a disc—and Eaglesoft News Feed, an RSS feed, provides users with the latest news from Eaglesoft regarding software and technology updates.



CALL: 800-475-5036 CIRCLE: RS NO. 130 SCAN:



Improved imaging software with Eaglesoft 3D by Dolphin—import images into Eaglesoft and use select
Dolphin 3D tools to manipulate and enhance images.

CareCredit bridge provides a direct link to process credit applications, which are automatically prepopulated

o with the patient's information.

AFTER YOU BUY, BE SURE TO HAVE

A cloud-based patient education system

Practice marketing and patient communication

You can find these @ products.dentalproductsreport.com.

CAESY Cloud Patient
Education Systems by
Patterson Dental



RevenueWell Patient Communications Suite by Patterson Dental



Every client we've ever had is a dentist.

Reach 100% of your patients with award-winning automated communications.

Lighthouse 360 reminds patients of upcoming appointments, confirms existing appointments, and asks patients to post online reviews—all automatically. Your team's efficiency goes up, broken appointments go down, and patient satisfaction soars.

For a complete tour of our award-winning system

call 888-740-5210
—— or visit ——
LH360.com/DPR

No contracts AutoConfirm™ Perfect Recall™ You're free to leave Automatically mark Never print another recall anytime—we believe in appointments "confirmed" report—Lighthouse 360 earning your business in your system's automates your entire with great value month schedule—no need for recall system. after month. manual updates. **ONLY WITH LIGHTHOUSE 360**

We know dentistry. We know you.











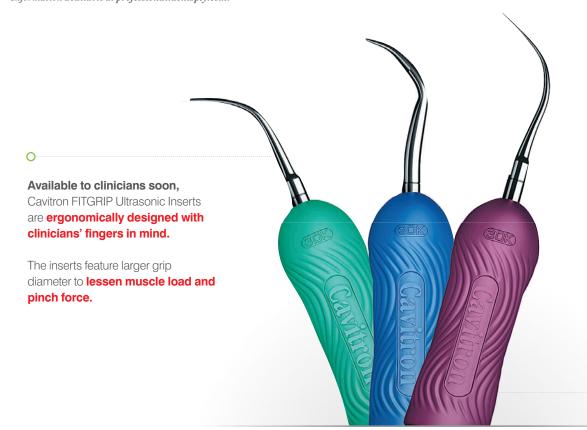
HERE'S SOMETHING ELSE THAT CAN HELP—

Hu-Friedy's Hand Essentials line of safe, powerful infection control hand rubs can help any practice (hu-friedy.com).

Inserts with a great grip

CAVITRON® FITGRIP™ ULTRASONIC INSERTS

Compiled by STAN GOFF
Information available at professional.dentsply.com.



The one piece design allows the hygienists' fingers to naturally conform to the grip.

Grip texture is specially designed to lessen the chance of slipping.

Available in **9 popular Cavitron® insert tip shapes**—Focus Spray® slimLINE®, PowerLINE™, and THINsert®.

0

CALL: 800-989-8826 CIRCLE: RS NO. 132 SCAN:



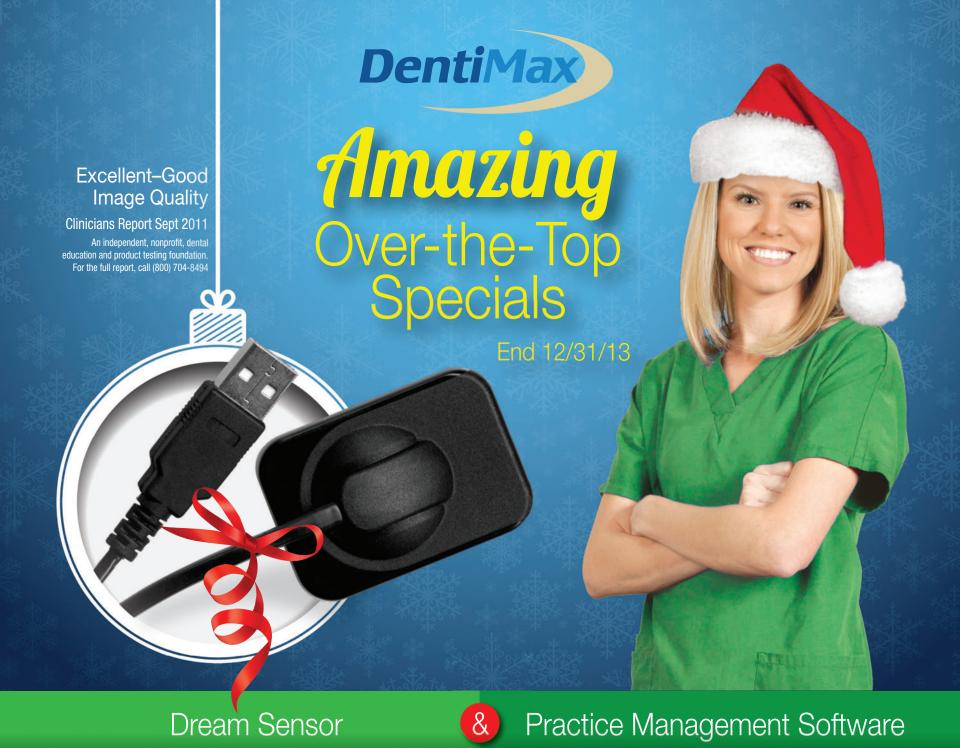
AFTER YOU BUY, BE SURE TO HAVE

Ultrasonic scaler/polisher
Ultrasonic scaler
You can find these @
products.dentalproductsreport.com.

Cavitron® JET Plus scaler/ air polisher system with Tap-On™ Technology



Cavitron® Plus ultrasonic scaler with Tap-On™ Technology



FREE 5-Year



Extended Warranty

FREE Imaging Software
FREE Year of Imaging Software Support
FREE Installation, Set-up and Training

10% OFF

Any Practice

Management Purchase



Take another \$1000 OFF with Training Purchase

(must purchase Practice Management Bundle with the Complete DentiMax Training System)

Call Today! (877) 987-8444

Ó

HERE'S SOMETHING ELSE THAT CAN HELP—

The Sonicare FlexCare Platinum power toothbrush helps patients keep their teeth extra clean and healthy (sonicare.com).

Advanced ename fluoride uptake

COLGATE® ORAL PHARMACEUTICALS: NEW AND IMPROVED* PREVIDENT® VARNISH FORMULA

Compiled by STAN GOFF
Information available at colgateprofessional.com

0

The high-fluoride in-office treatment now contains advanced technology for greater enamel fluoride uptake¹ vs. the leading varnish competitor brand**: four times greater fluoride uptake into lesioned enamel¹, three times greater fluoride uptake into sound enamel.¹

Contains 22,600 ppm fluoride, which is clinically proven for hypersensitivity relief.²⁻⁴



Ideal for both children and adults.

New formulation provides a **smooth, even and quick application** and dries to a natural enamel color for patient comfort and compliance.

Contains **xylitol**, a pleasant-tasting all-natural sweetener, and is currently available in two flavors (Mint and Raspberry).

*Compared to original Colgate® PreviDent® Fluoride Varnish in lesioned enamel.
**Versus 3M™ Vanish™ Varnish

REFERENCES

- 1. Data on file; Colgate-Palmolive 2012
- 2. Gaffar A. Treating hypersensitivity with fluoride varnishes. Compend Contin Dent Educ 1998; 19:1089-97.
- 3. Clark DC, Hanley JA, Geoghegan S, Vinet D. The effectiveness of a fluoride varnish and a desensitizing toothpaste in treating dentinal hypersensitivity. J Periodontal Res 1985; 20(2): 212-219.
- 4. Ritter AV, de L Diaz W, Miguez P, Caplan DJ, Swift EJ Jr. Treating cervical hypersensitivity with fluoride varnish: a randomized clinical study. J Am Dent Assoc 2006; 137(7): 1013-1020.

CALL: 800-2COLGATE CIRCLE: RS NO. 134 SCAN:



AFTER YOU BUY, BE SURE TO HAVE

Sensitive toothpaste
Prescription strength toothpaste
You can find these @
products.dentalproductsreport.com.

Colgate's
PreviDent 5000
Sensitive



Colgate's PreviDent 5000 Booster Plus



Buy any EZ Autoclave...



Closed Door System Fully Automatic Autoclaves

• Hepa Filtered Air Drying • Cassette Capacity 3 large + 3 half

EZ Models come with a 2 Year Parts and Labor Warranty

... And the choice is yours!



01





Free Ultrasonic (with ss basket)

Buy any EZ autoclave from October 1 thru December 31, 2013 and get your choice of a FREE 1 gallon Ultrasonic or a \$400.00 manufacturer's rebate. To redeem this offer the end user must send to Tuttnauer a copy of the dealer invoice, the serial number of the autoclave, and indicate either the free Ultrasonic or Rebate on the cover letter or fax. Redemptions can be faxed to (631) 780-7727, Attention: EZ Promotion, or mailed to Tuttnauer USA, Attention: EZ Promotion, 25 Power Drive, Hauppauge, NY 11788. Redemption deadline is January 31, 2014. Please allow 4 weeks for receipt of rebate or shipment of free goods.

Tuttnauer USA Co. Ltd., 25 Power Drive, Hauppauge, NY 11788 Tel: (800) 624 5836, (631) 737 4850

Email: info@tuttnauerUSA.com, www.tuttnauerUSA.com



The Social Media Series



Achieve Social Media Success

Jamie Wetherbe, DPR's resident expert on all things digital, takes dental professionals through basics and best practices for social media in 10 quick videos.

DENTALPRODUCTSREPORT

dentalproductsreport.com/socialmedia

STATEMENT OF OWNERSHIP, MANAGEMENT, AND CIRCULATION (Requester Publications Only) (Required by 39 USC 3685)

Publication Title: Dental Products Report

Publication Number: 0011-8737

Filing Date: 9/30/13

Issue Frequency: Monthly Number of Issues Published Annually: 12 Annual Subscription Price (if any): \$150.00

Complete Mailing Address of Known Office of Publication: 131 West First Street, Duluth, St. Louis County, Minnesota 55802-2065

Contact Person: Kristina Bildeaux Telephone: 507-895-6758

Complete Mailing Address of Headquarters or General Business Office of Publisher: 2501 Colorado Avenue, Suite 280, Santa Monica, CA 90404

Full Names and Complete Mailing Addresses of Vice President and General Manager: John Schwartz, 2501 Colorado Avenue, Suite 280, Santa Monica, CA 90404 Group Content Director: Kevin Henry, 24950 Country Club Blvd., North Olmsted, OH 44070 Editor in Chief: Stan Goff, 24950 Country Club Blvd., North Olmsted, OH 44070 10. This publication is owned by: Advanstar Communications Inc., 2501 Colorado

Avenue, Suite 280, Santa Monica, CA 90404. The sole shareholder of Advanstar Communications Inc. is: Advanstar, Inc., whose mailing address is 2501 Colorado Avenue, Suite 280, Santa Monica, CA 90404.

11. Advanstar Communications Inc. is a borrower under Credit Agreements dated June 6, 2013, with various lenders as named therein from time to time. As of June 6, 2013, the agent for the lenders is: Goldman Sachs Lending Partners LLC, Administrative Agent, 30 Hudson St, 4th Floor, Jersey City, NJ 07302

Average No. Copies No. Copies of Single

Does Not Apply

13. Publication Title: Dental Products Report

14. Issue Date for Circulation Data Below: August 2013

15. Extent and Nature of Circulation

		Each Issue During Preceding 12 Months	
Δ	. Total Number of Copies	139,808	135,578
	. Legitimate Paid and/or Requested	139,000	100,070
	Distribution		
	 Outside County Paid/Requested 		
	Mail Subscriptions Stated on PS	86,789	83,484
	Form 3541		
	2. In-County Paid/Requested Mail	0	0
	Subscriptions Stated on PS Form 3541	0	0
	3. Sales Through Dealers and		
	Carriers, Street Vendors, Counter		00
	Sales, and Other Paid or Requested	d 28	28
	Distribution Outside USPS		
	4. Requested Copies Distributed by		_
	Other Mail Classes Through the	0	0
	USPS		
(Total Paid and /or Requested Circulation	86,817	83,512
	(Sum of 15b (1), (2), (3), and (4))	00,017	00,012
	Non-requested Distribution		
	Outside County Non-requested	50,979	51,502
	Copies Stated on PS Form 3541		31,302
	2. In-County Non-requested Copies	0	0
	Stated on PS Form 3541	٨	
	Non-requested Copies Distributed Through the USPS by Other	0	0
	Classes of Mail	O	O
	Non-requested Copies Distribute	d 4.570	005
	Outside the Mail	1,576	225
Е		52,555	51,727
_	(Sum of 15d (1), (2), (3) and (4))	02,000	01,727
F	Total Distribution (Sum of 15c and e)	139,372	135,239
(6. Copies not Distributed	436	339
	l. Total		
	(Sum of 15f and g)	139,808	135,578
1.		62.29%	61.75%
	Circulation	02.2070	01.7070

16. Total circulation includes electronic copies. Report circulation on PS Form 3526-X worksheet.

17. Publication of Statement of Ownership for a Requester Publication is required and will be printed in the November issue of this publication.

Name and Title of Editor, Publisher,

Anne Brugman

Business Manager, or Owner: Audience Development Director

Signature: Date: 9/30/13

I certify that the statements made by me above are correct and complete.

Get NEW PATIENTS the Easy Way With a Brand New Website











Why The Online Practice?

- ✓ Professional Website Design
- ✓ Turnkey Solution We Do the Work
- ✓ Search Engine Placement
- ✓ Complimentary Mobile Website
- ✓ Patient Education Videos
- ✓ Unlimited Support
- ✓ Your Own Dedicated Marketing Team
- ✓ Live Website in 48 Hours
- ✓ Content Included
- ✓ Stock Photos



Activate the Magazine

As the go-to product resource for the dental industry, the team at *Dental Products Report* wants to make it as easy as possible for you to get the information you need about new products.

Here, you'll find the reader service card with numbers that correspond to advertisements. Throughout the issue, you'll also find numbers with each of the products that appear as editorial in this issue of DPR. You'll also find opportunities to go directly to landing pages that allow you to fill in your information in order to receive new product materials, QR tags that get you there directly from your phone, and in some cases, text (or SMS) codes that provide yet another way to get the information you want.

We don't expect you to use every method. We just want to make it easy for you to get what you're looking for — on your terms.

You Can:

- Fill out the Product Card
- Go Online or Scan
- Text

Result: New product information sent directly to you!



DEXIS

Text "DEXIS" to 90947 • www.dexis.com, www.dexisgo.com



3M ESPE

LeadGen Circle RS No. 17, 103

Text "3MESPE" to 90947 • www.3MESPE.com





LeadGen Circle RS No. 138

Text "Gendex" to 90947 • www.gendex.com





LeadGen Circle RS No. 27

Text "Ivoclar" to 90947 • www.ivoclar.com



BIOLASE

LeadGen Circle No. 3

Text "Biolase" to 90947 • www.biolase.com





LeadGen Circle RS Nos. 79, 82

Text "Patterson" to 90947 • www.pattersondental.com





LeadGen Circle RS Nos. 83, 94

Text "Denmat" to 90947 • www.denmat.com

Company Name URL	Page No.	Product Card Circle No.
3M ESPE 3mespe.com	17, 71	17, 103
ACTEON North America acteonusa.com	12	12
Air Techniques airtechniques.com	20-21	20
BIOLASE biolase.com	4-5, 38-39	3
BISCO Inc. bisco.com	19	19
Chicago Dental Society on.cds.org	51	73
E4D Technologies e4d.com	60	97
Danville Materials danvillematerials.com	47	85
DenMat denmat.com	44-45, 57	83,94
Dental Vibe dentalvibe.com	98	123
Dentca dentca.com	75	107
Dentimax dentimax.com	109	133
DENTSPLY Caulk tphspectra.com	53	91
DENTSPLY Pharmaceutical dentsplypharma.com	91-92	118

Company Name URL	Page No.	Product Card Circle No.
DENTSPLY Professional professional.dentsply.com	9	9
Diatech diatechusa.com	70	102
DMG America dmg-america.com	31	72
Enzyme Industries Inc. enzymeindustries.com	36	76
Essential Dental Systems edsdental.com	95	120
Fairfax Dental Inc. stabident.com	96	121
Garrison Dental Solutions Inc. garrisondental.com	16	16
GC America Inc. gcamerica.com	73	101
Gendex gendex.com	CV3	138
Glidewell Dental Laboratories glidewelldental.com	65-67	99
Great Lakes Orthodontics Ltd. greatlakesortho.com	74	106
Henry Schein Inc. henryscheindental.com	CV2-03, 62-63	2,98
Hi-Tec Implants Ltd. hitec-implants.com	87	115
Hu-Friedy Mfg. Co. Inc. hu-friedy.com	14	14
Internet Brands Inc. theonlinepractice.com	113	136
lvoclar Vivadent Inc. ivoclarvivadent.com	25	27
Keller Laboratories kellerlab.com	11	11
Kerr Corp./Div Of Sybron Denta kerrdental.com	l 41	89
KOMET USA kometusa.com	CV4	139
Lighthouse 360 lh360.com	107	131
NSK America Corp. nskdental.us	35	75
Northeast Dental Laboratory nedentallab.com	76	108
Office Max officemax.com	105	129

Company Name URL	Page No.	Product Car Circle No
Officite go.officite.com	101	12
Orascoptic orascoptic.com	103	12
Patterson Dental Co. pattersondental.com	33, 43	79, 8
Perio Protect LLC perioprotect.com	77	10
Premier Dental Products Co. premusa.com	97, 99	122. 12
Professional Economics Bureau xldent.com	37	7
Pulpdent Corporation pulpdent.com	15	1
Reliable Arts Dental Lab reliablearts.com	34	7
Ritter Dental USA ritterdentalusa.com	42	8
Safari Dental safaridental.com	36	7
SciCan Inc. scican.com	22	2
SDI Inc. sdi.com	13	1
Solmetex solmetex.com	72	10
Sultan Healthcare durashieldcv.com	29	7
Sunstar Americas Inc. gumbrand.com	10	1
Tuttnauer Co. tuttnauerusa.com	111	13
Ultradent ultradent.com	49	8
Vatech America vatechamerica.com	7	
Vident vident.com	59	9
VOCO America Inc. vocoamerica.com	F1-F2	
ZEST Anchors Inc. zestanchors.com	69	10

BURS

A&M_INSTRUMENTS

A&M Diamond Burs

Manufactured In the USA for Over 30 Years

Multi-Use Burs \$3.45 per Bur In 6 Unit Boxes Buy 4 Boxes Get A 5th Box Free

FREE SHIPPING!



Also Available In Single-Patient-Use 25 burs \$1.19 Each 50 burs \$1.09 Each 100 burs \$.99 Each

Call 866-264-4287

Visit Our Website www.usburs.com

A&M Instruments, Inc. Alpharetta, Georgia

EQUIPMENT FOR SALE

Quality New and Refurbished Dental Equipment



Complete Operatory Packages



New EZ10

Adec - Beaverstate - Buffalo - DCI **Dental-Ez - Royal - Tuttnauer** Flight - MyRay - Air Techniques Handler - Pelton & Crane - Belmont **Forest - Custom Cabinets - Marus**



SUPERIOR_DDS Search

IN STOCK

In Our Showroom



www.superiordds.com 407-347-5992



DENTAL SUPPLIES

The Best Solution Is The Best Advice



Majestic Introduces



Almost 50% of U.S. adults suffer from sensitive teeth. Now you can offer your patients a totally new and unique way to instantly put their tooth sensitivity to sleep. Just one treatment of Senzzzzz **Away**®, the newest innovation from Majestic Drug Co., Inc., has been clinically proven to eliminate tooth sensitivity for up to six full months. Senzzzzz Away® is the exciting new addition to the Tooth Desensitizer category and is available now. Please let your patients know!



The Best Solution Is The Best Advice

Majestic Introduces





For more information, call 1-800-238-0220 or visit our website at www.majesticdrug.com Your patients are constantly looking for new ways to keep their teeth and gums healthy and clean throughout the day without having to resort to carrying a toothbrush with them everywhere they go.

Proxi-Plus® is the newest innovation in this category. **Proxi-Plus**® is a single use, hygienic interdental brush with a bonus flosser on the end. Each pack has a month's supply (30 brushes) and a very competitive price. Proxi-Plus® is available now. *Please let* your patients know!



Search for the company name you see in each of the ads in this section for FREE INFORMATION!

For more information, call 1-800-238-0220

or visit our website at www.majesticdrug.com

TopProdeals

DAILY DEALS WEBSITE

for Dental Professionals

Save up to 90% off dental supplies & equipment. Joining is **free** and easy!

www.TopProdeals.com

Search for the company name you see in each of the ads in this section for FREE INFORMATION!



looks forward to helping you reach your financial goals.

Our Team (left to right):

Walter K. Herlihy, CLU®, ChFC®, CFP® Medical Economics, Best Advisors 2010 - 2012 Dental Practice Report, Best Advisors 2011- 2013

Sabina T. Herlihy, Esq., Massachusetts Michaela G. Herlihy, CFP® Super Lawyers 2007, 2010 - 2012

Robin Urciuoli, CPA, CFP®

Linda B. Gadkowski, CFP® Medical Economics, Best Advisors 2004 - 2012 Dental Practice Report, Best Advisors 2011-2013

Peter Deschenes, Office Manager





Beacon Financial Planning, Inc.

Offices in Easton, Hyannis, Wellesley and Boston, Massachusetts Phone: 888-230-3588 E-mail: Walter@Beaconfinancialplanning.com

www.Beaconfinancialplanning.com

LAB SERVICES



Do you work with a

Most states do not have minimum standards for who can become a dental technician...

However, CDTs have surpassed national standards in knowledge and skills, and continuously obtain technical and regulatory education in order to ensure that you receive quality restorations.

> Call (800) 684-5310 or visit www.nbccert.org to find a CDT today.



FINANCIAL SERVICES

OLESALE CARD PROCESSING PROGRAM



INTERCHANGE % RATES GO AS LOW AS

• FREE Placement, Credit Card Terminal

Wireless/Land Line/ High Speed/Dial-Up

- Integrate with your current POS
- Free Paper**
- No set-up fee
- **Check Services Available**
- **Early Termination Fee** with your current processor? NAB will reimburse your business up to \$295**



ENROLL NOW - CALL A SPECIALIST TODAY!

BBB.



Search for the company name you see in each of the ads in this section for FREE INFORMATION!

FINANCIAL SERVICES



You don't have to wait for your capital.

Hassle-free financing in as few as 5 days from BHG.

Unlike traditional lenders, BHG provides quick and efficient financing exclusively to healthcare professionals. Our loan programs and funding process are designed around your needs and challenges, allowing you to get the capital you need and back to what matters most. Experience the difference of a lender focused exclusively on the financing needs of healthcare professionals.

Call **877.688.1819** or visit **www.bhg-inc.com/DPR13** for a no-cost, no-obligation loan proposal in 24 hours.



Loan amounts up to \$200,000 • Will not appear on personal credit • No hard collateral required • Flexible use of funds

ABORATORY SERVICES ALL RESTORATIONS MADE IN USA AmZir Crowns (Porcelain Fused to Zirconia) \$ 99.00 BruxZir Full Zirconia Crowns (CAD/CAM) \$ 79.00 e-max Crowns (ALL CERAMIC)..... 425 S. Santa Fe St. Santa Ana, CA 92705 www.aandmdental.com • info@aandmdental.com 800-487-8051



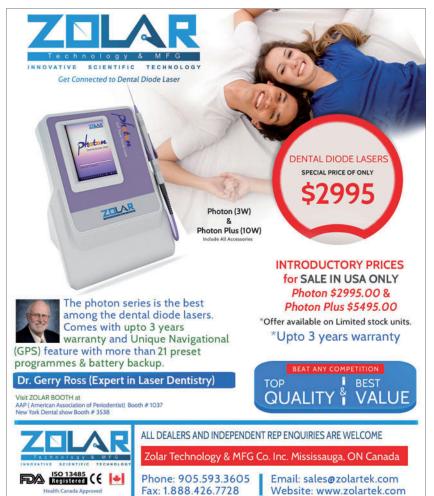








TECHNOLOGY



Wonder what these are?

COMPANY



Go to dentalproductsreport.com/products and enter names of companies with products and services you need.

marketers, find out more at: advanstar.info/searchbar



Search for the company name you see in each of the ads in this section for FREE INFORMATION!

MARKETPLACE

PRODUCTS & SERVICES

CROWNS

CONSULTING

Need a Solution to Increase Hygiene Production?

"Do-It-Yourself" Hygiene Department Consulting Kit offers several solutions for your PRACTICE, your TEAM and your PATIENTS! For a fraction of the cost of an in-office consultation, you can have all the tools you need to implement a solid perio program on your own!

- 1. <u>Double</u> hygiene **PRODUCTION** by increasing the variety of hygiene services
- 2. Help your PATIENTS achieve better oral health
- 3. Get the ENTIRE OFFICE revitalized and on the same page!

You've waited long enough! Get started TODAY!



www.PerioAndBevond.com 267-241-5833 Colleen@PerioAndBeyond.com

50% off at the first purchase over **USD150.00** or more

J and H Dental Lab LLC USA/China USA/CANADA Toll free number: 800-868-1782 Email: webmaster@jhdentallab.com

FINANCIAL SERVICES



EQUIPMENT FOR SALE

Pcard®

You Sell, We Lend, You Grow

Patient Financing Made Easy

- More Approvals (A, B & C Credit)
- Quick Decisions
- Low Monthly Payments
- Fast Funding To Your Practice

www.helpcard.com • 877-834-0550

HANDPIECES

Click or Call Today! BillsForDrills.com 1-855-544-1900

1. Request FREE Postpaid **Shipping Box & Send Items**

2. Approve Our Offer

3. You Get CASHI

INFECTION CONTROL

Asepto Systems

Products for Infection Control

Asepto-Sol

Impression/Gypsum Disinfectant

Safe-Seal

Lab Transport Bags

Odo-Gard

Deodorizer/Cleaner

CONTACT DEALER

57 Ozone Avenue, Venice, CA 90291 Tel (310) 396-8271 • Fax (310) 396-7702 E-mail: asepto@verizon.net Internet URL Address: http://www.aseptosystems-dc.com

LAB/OPERATORY PRODUCTS



- Branemark All are manufactured with the tightest tolerances, tested by

Instron test machines and come with a full Lifetime Warranty. FREE SHIPPING FOR ORDERS OF \$150 & UP

Toll Free (888)281-8850

www.woodwaydental.com 1-888-368-4770

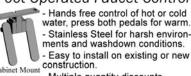


Call 1-800-323-4144

Marketplace Can Work For You!

Reach highly-targeted, market-specific business professionals, industry experts and prospects by placing your ad here!

Foot Operated Faucet Control





www.FootFaucet.net

Zoll-Dental Instruments!

From the basic to the advanced Zoll-Dental can fill all your instrument needs.

For A Catalog Call: 1-800-239-2904 View it on the web! www.zolldental.com

A USA Manufacturer! Full Retipping & Resharpening Service!

or Information, Call Linda Barrier 800.225.4569 ext. 2701

For Advertising Rates

Save \$2,000-\$5,000 Equipping Your Operatory with Reconditioned Handpieces MIDWEST TRADITION \$400 NOSE CONE \$190 SHORTY \$400 KAVO 6000B \$500 62LDN \$200 2307LN \$400 STAR 430SWL \$400 NOSE CONE \$180 TITAN 20K \$350 Reconditioned with new parts Includes 6-month warranty 1/3 – 1/2 the price of new Shop our Webstore or Call HandpieceUSA.com 1-866-546-1292



PRODUCTS & SERVICES

INFECTION CONTROL



LAB SERVICES

American Eagle
Dental Lab

(888) 609-2622 www.EagleDentalStudio.com

THIS MONTH SPECIAL Zirconia Layered with Porcelain

ain \$69

- **7** PFM Non Precious \$45
 - \$45 **TCS** Flexible \$99
- ₩ IPS e.max Pressable \$79
- ▼ Partial Denture \$135
- **7** Full Contour Zirconia \$75
- ₩ Full Denture \$130

FREE BOTH WAY SHIPPING - CALL IN FOR DETAIL



MISCELLANEOUS



PRODUCTS



PROFESSIONAL SERVICES

DISABILITY CLAIMS ADVICE PROVIDED

ART FRIES, RHU friesart@hotmail.com 1-800-567-1911 • www.afries.com



Specializing in Servicing Cavitrons® and Prophy-Jets® J.H.M. Engineering - 35 Years

4014 8th Ave. Brooklyn, NY 11232
(800) 222-5352 • (718) 871-1810
Fax (718) 972-6291

Marketplace Advertising CAN WORK FOR YOU!

208-489-1590





www.dentalrat.com

Marketplace Advertising Can Work For You! Please Contact: Linda Barrier at 1-800-225-4569 ext. 2701

877-278-0061

MARKETPLACE

PRODUCTS & SERVICES

REPAIRS



TECHNOLOGY

Dental Office Radios



Order at TechWholesale.com or Call 513-398-5771

Marketplace Advertising Can Work For You!

Reach highly-targeted, market-specific business professionals, industry experts and prospects by placing your ad here!

Please Contact Linda Barrier 1-800-225-4569 ext. 2701

TURBINE REPLACEMENTS



Know who is reading your catalog.

Introducing Advanstar's Custom Digital Solutions.

Stop spending time and money sending out expensive print catalogs and company brochures that may never be read.

Open up new markets.

Place your digital catalog on one of our trusted industry publication's websites and receive monthly impression exposure.

Go Digital Today!

Contact Your Sales Rep 1 (800) 225-4569

DENTAL PRODUCTS REPORT

Content Licensing for Every Marketing Strategy

Marketing solutions fit for:

- Outdoor
- Direct Mail
- Print Advertising
- Tradeshow/POP Displays
- Social Media
- Radio & Television

Logo Licensing Reprints | Eprints Plaques

Leverage branded content from Dental Products Report to create a more powerful and sophisticated statement about your product, service, or company in your next marketing campaign.

Contact Wright's Media to find out more about how we can customize your acknowledgements and recognitions to enhance your marketing strategies.

For more information, call
Wright's Media at
877.652.5295
or visit our website at
www.wrightsmedia.com

0

A HEALTHIER MOUTH IN JUST SIX MONTHS



How CariFree products helped this patient drastically reduce the number of cavities in her mouth and feel better about her smile.

Compiled by RENEE KNIGHT



ASHLEY SCHWALENBERG Chippewa Falls, WI. PATIENT OF

DR. MAUREEN LEAKE

After years of struggling with cavities, Ashley Schwalenberg found a solution to her dental woes: Oral BioTech's CariFree.

Ashley began using CTx4 Treatment Rinse, CTx3 Rinse, and CTx4 Gel 1100 in October 2012 after her dentist, Dr. Maureen Leake, suggested she give them a try. She couldn't be happier with the results. Here's her story.

Q: What issues were you and your doctor targeting with your CariFree treatment?

A: Ever since I was a kid they found cavities at every visit, and most times they were very extensive and required hours of work to fix. I've been lucky so far and only had one root canal, but pretty much all of my teeth have been drilled and filled multiple times. I also had braces as a child.

Q: Do you know the cause of your difficulties?

A: I've never specifically been tested for any issues. My goal was to reduce the number of cavities I was getting and hopefully have a cavity-free visit.

Q: What else had you tried?

A: In the past I tried Mi Paste, prescription high fluoride toothpaste, Colgate Phos-Flur. I also reduced the number of sodas I was drinking and watched the sugary foods. I tried to brush after meals when I could and tried to drink more water and chew sugarfree gum.

Q: What have you learned about dental caries?

A: From what I have read in the CariFree literature, I learned bad teeth can be genetic and is not something just caused by poor dental hygiene. It made me feel better that it wasn't totally my fault. I was trying really hard to take care of my teeth and nothing was working. It showed me there might be a reason all the changes I had made didn't work.

Q: How has the treatment process changed your condition?

A: At my 6-month cleaning after using CariFree, the hygienist said my teeth looked really good, my gums looked healthy, and there wasn't much plaque on my teeth. I only had one cavity in the back of my mouth on the back of a tooth but it didn't appear to be very involved.

Q: How has this process changed the way you view your dentist?

A: After using CariFree, I don't dread going to the dentist as much anymore. I was actually excited to go and see if it had helped and it did! My teeth and mouth feel cleaner and overall healthier. I now have hope that one day soon I will get to go to a cleaning and have no cavities!

Oral BioTech

CTx4 Treatment Rinse

CTx4 Treatment Rinse is designed to treat the cariogenic plaque biofilm, reduce the overpopulation of cariogenic bacteria, and neutralize oral pH. Intended for use by patients diagnosed to be at-risk for caries.

866-928-4445 • carifree.com

CIRCLE: RS No. 137

SCAN:



Q: Do you think CariFree and risk assessment should be standard in dental offices?

A: Yes, I wish I had learned about CariFree years ago. I believe it would have saved me many hours in the dental chair and thousands of dollars of dental work.

Q: What problems or issues do you have with sticking to your treatment plan?

A: I don't have any problems sticking to the CariFree regimen. I really like the flavors and the way my teeth feel after I rinse and brush. I actually reach for my toothbrush more now to get that clean smooth feeling, especially after I have eaten something that makes my teeth feel fuzzy. The only issue I could see for some people is the cost. It would be nice if insurance covered it. Right now, I make it work in my budget so I keep my dental bills down.

Q: Do you think there are people that would benefit from risk assessment and CariFree that are not currently able to access it?

A: Yes. I believe the dental field has progressed significantly since I was a child and that my children will have better dental resources than I do now. I think, with time, more dentists and dental professionals will learn about CariFree and be able to recommend it to their patients and that more people will be able to have better dental health.

Q: Is there anything else you'd like to share?

A: I think these products are great. It tastes great, it makes my mouth feel great, and it's easy to use. Thank you for helping me achieve better dental health and making me dread the dentist less! I know one day soon I will get the "No cavities" picture I always wanted as a child!

Your Imaging Future Starts Today

Continuing Innovation | Dependable Performance | Comprehensive Solutions





Continuing Innovation

Intuitive user interface with SmartLogic™ stores the most frequently used settings for optimized workflow. The new SRT™ reduces artifacts from metal and radio-opaque objects to provide clean, crisp images.



Dependable Performance

EasyPosition™ system allows for reproducible patient positioning and consistent imaging results.

Comprehensive Solutions

All-in-one solution delivering integrated 3D restoration and implant planning software with surgical guide capability.



GXDP-700™ Digital Pan. Ceph. 3D.

Schedule a DEMO today!
Call 1-888-339-4750
or visit www.gendex.com





F360[™] Undeniably Simple.

The innovative Komet® F360 system is revolutionizing modern endodontics with a simple two-file approach to root-canal preparation. F360 pre-sterilized, single-patient files feature a unique Double-S™ design to ensure outstanding cutting efficiency and debris removal.

The thin-core, highly flexible files perfectly adapt to root-canal morphology and operate in rotary mode to full working length. F360: Bringing renowned Komet innovation and expertise to everyday endodontics. Simply exceptional.



USA LLC - 09 / 2013 - 41 23

www.kometusa.com