DENTAL ADVISOR™

Product insights you can trust.

JULY-AUG, 2020

Vol. 37, No. 05

Pandemic Product Essentials

2 **MAIN TOPIC**
Pandemic Product Essentials

CLINICAL EVALUATIONS

10 SNOW® Teeth Whitening System
LED activated teeth whitening system with mouthpiece

11 elements™ IC
Cordless endodontic obturation system

12 Profluorid® Varnish
5% Sodium Fluoride Varnish

13 Ear Aid™
Electronic hearing protection

14 Composite SINGLES
Single-use composite polishers

RESEARCH REPORT

15 Cavex ImpreSafe
Long-Term Disinfection Study

CLINICAL EVALUATOR SPOTLIGHT

16 Dr. Paul Chaiken

DENTAL ADVISOR
Product insights you can trust.

FROM THE DESK OF
Dr. Sabiha Bunek, Editor-in-Chief

COVID-19 arrived in Dentistry back in March, and our practices and lives have had to quickly adapt to our new normal. DENTAL ADVISOR has been fortunate in that we are in constant dialogue with dental professionals and companies addressing the issues of this pandemic in protecting ourselves and our patients. We have held several webinars and conference calls to spread good information as opposed to panic and fear. We are busy in our laboratories testing innovations and products to assist dental professionals, separating out the hype from the science. We have answered hundreds of questions via our website and social media on products and equipment available. This month's issue highlights some of the products we have seen on the market, some products that have been pushed to the forefront post COVID, and there will certainly be more to come. As always, we look forward to hearing from our readers and welcome your comments and suggestions; you can reach me at drbunek@ dentaladvisor.com, or our team at connect@dentaladvisor.com.

— Sabiha S. Bunek

Do you have questions on products, processes and equipment?

DENTAL ADVISOR began performing aerosol testing in a quantifiable scientific way back in March of this year. We will be presenting research in the coming months related to air purification, external and internal suction devices, surface disinfection, personal protective equipment, and many of the innovations we are currently testing.

JULY/AUG 2020
VOL. 37, NO. 5

VISIT US ON SOCIAL MEDIA

FACEBOOK
FB.COM/THEDENTALADVISOR

INSTAGRAM
@THE_DENTAL_ADVISOR

TWITTER
@DENTALADVISOR

LINKEDIN
/COMPANY/DENTAL-ADVISOR

YOUTUBE
BIT.LY/DENTALADVISOR

PUBLISHER: DENTAL CONSULTANTS, INC.
John M. Powers, Ph.D.
Sabiha S. Bunek, D.D.S.

EDITOR-IN-CHIEF
Sabiha S. Bunek, D.D.S.

EDITORIAL BOARD
Gary Bloomfield, D.D.S.
Julius Bunek, D.D.S., M.S.
Eric Brust, D.D.S., M.S.
Michelle Elford, D.D.S.
Robert Green, D.D.S.
Nizar Mansour, D.D.S., M.S.
Marcy Murrell, D.D.S.
James Olsen, D.D.S.
Kathy O'Keefe, D.D.S., M.S.
L.W. Seluk D.D.S, M.S., M.S.
Brad Stieper, D.D.S., M.S.
Anthony Valentine, D.D.S.
Peter Yaman, D.D.S., M.S.

EXECUTIVE DIRECTOR
Mary E. Yakas, B.A., C.M.C.

CLINICAL EDITOR
Ona Erdt, D.M.D., C.D.A., M.S.H.S.

RESEARCH
John A. Molinari, Ph.D.
Matt G. Cowen, B.S.
Delaney Graham, B.A.

DESIGN
Jim Dombrowski
Noah Wisniewski

CIRCULATION
Heidi L. Graber

SALES
Christopher Voigtman

Please send inquiries and address changes to:

DENTAL ADVISOR
3110 West Liberty, Ann Arbor, MI 48103
Call: 800.347.1330 - 734.665.2020
Fax: 734.665.1648
Email: connect@dentaladvisor.com
Website: dentaladvisor.com

No unauthorized duplication or reprints may be made. Inquiries concerning duplication may be directed to the publisher. Copyright ©2020, Dental Consultants, Inc. All rights reserved.

Printed in the U.S.A. (ISSN 0748-4666) by Print-Tech, Inc.

This publication is printed on paper that is 50% recycled and has 25% post-consumer content.

Pandemic
Product Essentials

PERSONAL PROTECTIVE EQUIPMENT

Ultralight Optics Loupes Shield

Ultralight Optics *(ultralightoptics.com)*

Work safely and in comfort with ***Ultralight Optics Loupes Shield:***

- Fully flipable up and down to give you a breath of fresh air.
- Designed to work with loupes and lights in multiple configurations. You can wear the faceshield by itself, with loupes, with a light on the inside, or outside with multiple adapters.
- Extra space for long loupes.
- Reusable visor and disposable shields make it the most economically sustainable shield at about $1 per shield.
- Extremely lightweight with optical grade PETG that is coated with antifog and dual film protection makes it feel like you're wearing nothing at all.

Dia-100FS Face Shield

Diadent *(diadent.com)*

Dia-100FS Face Shield is developed for face and eye protection from flying debris and other harmful and infectious substances.

- Optical grade protective full face shield
- Lightweight and comfortable
- Adjustable to various angles
- Removable nose bridge
- Can be used with regular glasses
- Anti-fog capability
- Reusable: Frame is steam autoclavable and shields are washable
- Regular Set contains: 1 frame and 5 shields.

SecureFit® Face mask

Crosstex *(crosstex.com)*

EDITORS' CHOICE · DENTAL ADVISOR +++++

37 CLINICAL EVALUATORS

1830 TOTAL USES

96% CLINICAL RATING

Description

SecureFit® Face Masks are a fluid-resistant, ear loop, disposable, single-use face masks. These face masks have an enclosed aluminum strip both above the nose and under the chin. The wearer pinches the strips to create a custom fit with a tight seal at the top, sides and bottom of the mask. ***SecureFit Face Masks*** conform to any size or shape face and are available in all three ASTM performance classifications.

Evaluator Comments:

- *"Masks have a good fit and are secure and comfortable"*
- *"Easy to breathe - does not fog up glasses."*
- *"Loved it - the best earloop mask I have ever tried."*
- *"I like the top and bottom strips for better adaptation/comfort."*

PROtect-shield

Meisinger USA *(meisingerusa.com)*

Protect yourself and your office with a unique flip-up face shield that can mount on any brand of loupes or eyewear. The ***PROtect-shield*** features unique frame adapters that connect to the arms of any lens frames or loupe frames allow the shield to flip-up and down with ease.

These reusable shields provide protection with a safe barrier for eyes, nose, and mouth from any fluid splashes or droplets during any procedure. The shields are made from Polytetrafluoroethylene (PTFE), a high-grade protective polymer that is used in a variety of medical applications, which can easily be cleaned for a long lifespan.

- Lightweight - for comfortable use
- Adjustable - to accommodate loupes of different lengths
- Long life - can be cleaned for a long life span.
- Made in Germany

PERSONAL PROTECTIVE EQUIPMENT

Ultralight Optics Washable Gown

Ultralight Optics *(ultralightoptics.com)*

Ultralight Optics Washable Gowns are durable yet lightweight gown designed to withstand over 75+ washes.

Special features include:

- Unique dye designed for ultra-high temperature sanitation cycle washes and resistance to bleach
- Built in pockets for headlight battery packs and other essentials
- Shorter ties in the back to prevent tangling in wash cycle

ultralightoptics.shop/collections/washable-gowns

Easy Flow Personal Air Filtration System

Easy Flow USA *(www.easyflowusa.com)*

Easy Flow is an innovative new device which can be directly attached to any mask with a patented connector piece, or slipped into the side of the mask with an air nozzle held in place by a very strong magnet. Easy Flow provides fresh filtered air inside your mask making it easier to breathe, dryer, and more comfortable to wear. The pocket sized device is available in many colors and has three speeds for airflow. The kit comes complete with all the accessories. Preliminary evaluations reported very positive feedback in keeping a cool flow of air while working. **Enter the code "DA10" at checkout. for a 10% discount.**

PATIENT PRE-TREATMENT RINSE

ECO Balance

Gum Health Treatment & Oral Cleanser with Hydrogen Peroxide

GLO Science *(glosciencepro.com)*

ECO Balance is an oral cleanser and oral health care booster that you layer on top of your favorite toothpaste to maintain a clean, healthy and happy mouth. Formulated with 1.4% hydrogen peroxide, it is also an optimal pre-procedural foaming treatment that may help reduce microorganisms released in aerosols/splatter.

- 8X better than brushing and flossing* alone at reducing gingival bleeding with added benefits of whiter teeth and fresher breath

  ** Clinical study published in Journal of Periodontology, June 2020*

- Reduces plaque and gingivitis when used as part of your complete oral care regimen
- Easy to use – add on top of your toothpaste every time you brush
- Quick and easy 1-step volumizing formulation penetrates hard to reach areas between the teeth and along the gumline
- Long lasting fresh mint flavor for improved patient compliance and experience
- Antibiotic free, alcohol free, triclosan free, SLS free, and stain free

To request a FREE SAMPLE and experience ECO for yourself go to: go.glosciencepro.com/ECOSPECIAL

EverSmile PreOp Pretreatment Rinse

EverSmile *(eversmilewhite.com)*

EverSmile PreOp Pretreatment Rinse is designed to exceed current ADA recommendations for best practices during the Coronavirus pandemic. The ADA states, "Have your patient rinse with 1.5% hydrogen peroxide or commercially available rinses that contain 1.5% hydrogen peroxide just prior to beginning treatment.

EverSmile PreOP:

- Disinfects, cleans and debrides the entire mouth
- Exceeds the ADA Covid-19 rinse recommendation
- Uses a novel surfactant-enhanced hydrogen peroxide cleaning formula
- Foams during use to ensure full oral coverage
- Measured dispenser assures proper dosing each time- no mixing required
- Mint and bubblegum flavors available
- Each 16oz bottle treats 100 patients

GantGuard™ Self Adhesive Clothing Protector

Gant Medical *(GantMed.com)*

New ***GantGuard™*** dental bibs, surgical bibs and face and mask protectors are designed to protect dentists, hygienists and patients from infection, while eliminating the leading cause of cross contamination. All products are disposable, self-adhesive and one-ply thick absorbent tissue and one ply poly, making them impervious to liquid and fluid. Their Gantik® Authorized, non-irritating adhesive leaves no residue. ***GantGuard Dental Bibs*** eliminate clips, tabs and ties and the need for clip sterilization, the leading cause of cross contamination. ***GantGuard Surgical Bibs*** also extend the life of your PPE, by covering you from neck to waist. Uniquely designed ***GantGuard Face and Mask Protectors*** cover exposed areas of face and neckline skin, to protect what masks and shields don't, while extending the life of your mask. All GantGuard products are designed to protect staff and patients, extend PPE life and to make re-opening your practice not just easier, but better than before.

Sanctuary Dental Dams

Sanctuary Health *(sanctuary-dental.com)*

Sanctuary Dental Dams received very high ratings for tear resistance and durability and are specially designed to be resilient, with a high-tear tolerance to allow for the easy fixing of clamps. ***Sanctuary Dental Dams*** guarantee an expansion of 10 times from any original hole punched. ***Sanctuary Dental Dams*** come four-different styles: latex, silk-blue latex, non-latex and powder-free-black.

- Minimize the product ion of saliva
- Minimize the blood-contaminated aerosol or spatter
- Reduce atmospheric bacterial contamination
- Effective Barrier for Infection Control
- High Tear Tolerance
- Low Protein

EQUIPMENT MONITORING

SINGLES - Diamonds & Carbides

Meisinger USA *(meisingerusa.com)*

DENTAL ADVISOR 2020 TOP AWARD WINNER

DENTAL ADVISOR ++++½

24 CLINICAL EVALUATORS

790 TOTAL USES

91% CLINICAL RATING

SINGLES carbides by Meisinger are pre-sterilized and packaged individually to save time and avoid cross-contamination. Meisinger ***SINGLES*** carbides come in boxes of 25 individually packaged, sterile burs and are available in a wide variety of shapes and sizes.

Evaluator Comments:

- *"Quick cutting and sharp throughout the procedure, which reduced my time in the chair."*
- *"This product was very easy to use, so smooth, and it polished up beautifully!"*

Aeras Intelligence: Handpieces and Utility

DENTALEZ *(dentalez.com)*

The ***Aeras Compressor*** from Ramvac is the first and only utility equipment that provides monitoring and remote operation. When something is wrong an emergency alert is sent to you and your service team with critical diagnostic information before it leads to a serious problem. Giving you peace of mind backed with the industry's best warranty and a reduced risk of service interruptions.

Aeras Elite 500 Handpiece from Star provides 39 watts of power, a balanced grip, and embedded RFID Chip Technology for monitoring.

The ***Aeras Intelligent Platform*** from DENTALEZ can collect data, share information and streamline standard-of-care processes, creating an environment of superior patient care and practice efficiency.

All monitoring features above apply only if subscribing to monitoring service or with compatible reader.

STERILIZATION & INSTRUMENT REPROCESSING

Cavex Impresafe

Cavex Holland B.V. *(cavex.nl)*

25 CLINICAL EVALUATORS

2240 TOTAL USES

96% CLINICAL RATING

Cavex ImpreSafe is a highly concentrated disinfectant for alginate, polyether and silicone impressions. The system includes a disinfection container, one liter of disinfection fluid concentrate, shipping bags and a timer. Each liter of concentrate makes 33 liters of usable solution.

Evaluator Comments:

- *"I like the photo step-by-step guide; we posted it above the solution so any staff member could easily see how to use the product."*
- *"I loved the whole system. It was very easy to use and implement into our office."*
- *"Solution is easy to mix, odorless and no mess"*

Lexa Sterilizer

A-dec *(a-dec.com)*

Now more than ever, maintaining sterile instruments and handpieces is essential. Achieve sterilization best practices with the ***Lexa Sterilizer*** from W&H. The patented vacuum technology delivers bone-dry loads, to help protect patients and mitigate risk. The large capacity makes it easy to combine loads and customize cycles, increasing your efficiency.

- Closed-door vacuum drying keeps door locked for the entire cycle
- Single-use water system ensures water is never reused
- Sterilizes and dries loads in as little as 30 minutes
- 11" diameter chamber holds up to 18 lbs. of dental instruments
- Six pre-programmed and three custom cycles enable the fastest cycle for any load size
- Universal rack holds four large trays, up to four levels of cassettes (vertical or horizontal), or mixed loads
- Intuitive LCD display with simple prompts for easy operation
- User authentication documents cycle initiation and load release for traceability
- Available in 110 volt and 220 volt

For more information, visit a-dec.com/sterilization#Lexa or contact your authorized dealer.

WATERLINE TESTING

QuickPass

ProEdge Dental *(proedgedental.com)*

More advanced, reliable, and cost-effective than any other in-office water testing option, the ***QuickPass™ In-Office Dental Water Test*** allows dental practices to feel confident in their CDC compliance with the ≤500 CFU/mL standard.

- Advanced media formula is easy to read, with red indicating bacterial growth
- Includes germicidal neutralization for greater reliability
- Quick 48-72 hour results

ProEdge Dental Water Labs provides users with complimentary consultations to help improve results and learn best practices.

With COVID-19 shutdowns, waterline maintenance and testing are more important than ever. Test with the only in-office water test designed specifically for the dental industry.

WATERLINE TREATMENT

Sterisil Straw V2

Sterisil *(sterisil.com)*

Sterisil® Straw V2 eliminates the hassle of dropping daily tablets and provides worry-free waterline treatment for 365 days. As an added bonus, the ***Straw V2*** has a built-in shock treatment which releases automatically to kill preexisting odor-causing bacteria. ***Sterisil Straw V2*** has a quantified EPA claim of ≤10 CFU/ml HPC purity and features a Luer Lock fitting, reducing installation and replacement time down to a minute. The tapered top is shaped in a way that will reduce catching on the inside of the bottle during replacement which will help eliminate pulling the tube off of the barb.

- 365 days of continual treatment
- Built-in shock kills odor-causing bacteria
- Eliminates the hassle of using daily tablets
- Quantified EPA claim of <10 CFU/ml HPC purity.

H& Hand Sanitizer

EverPure *(everpurecare.com)*

EverBrands' Hand Sanitizer from the makers of EverSmile WhiteFoam.

Various sizes available for purchase for travel, car, purse, or home and office use.

Everbrands is a Los Angeles company that is donating sanitizer to local fire stations, police stations, hospitals, transplant centers, and government offices.

- Available in 1oz, 2oz, and 4oz spray bottles
- Made in the USA
- FDA and WHO-approved formula
- Unscented
- Premium isopropyl alcohol
- Starting at $1.99 each

FiteBac Hand Sanitizer

FiteBac *(www.fiteBac.com)*

EDITORS' CHOICE DA DENTAL ADVISOR +++++

DA DENTAL ADVISOR +++++

51 CLINICAL EVALUATORS

1,500 TOTAL USES

96% CLINICAL RATING

FiteBac Hand Sanitizer is a FDA compliant, patented, alcohol and water free, award-winning formula which creates a protective, silicone-based barrier on the skin.

- Healthcare-grade sanitizer that includes the active antimicrobial benzalkonium chloride 0.1%, which fully complies with the FDA's OTC Monograph for Healthcare Hand Sanitization.
- Contains no skin drying alcohols.
- Silicone formulation acts as a moisturizer and is formulated to stay on the skin for hours, even with repeated hand washings.
- Designed for dental professionals, makes repeated gloving much easier while ensuring hands are actively protected.
- 350 applications, 1-liter touchless dispenser refill provides ~4,000 applications, ensuring ***FiteBac® Hand Sanitizer*** costs less than most alcohol-based products.

POWERED AIR-PURIFYING RESPIRATOR

A-dec Protect and Sanitize Station

A-dec *(a-dec.com)*

Protect your patients (and your staff) with easy-to-access hygiene supplies. The ***A-dec Protect and Sanitize Station*** encourages a healthier waiting room environment by offering hand sanitizer, tissues and face masks on one convenient stand. It's a visible way to boost patient confidence—and show your commitment to maintaining a clean, safe practice.

- Compact design fits easily into any waiting room
- Stable, solid surface acrylic base won't corrode or rust
- Touchless hand sanitizer dispenser has built-in drip shield
- Includes one PURELL® hand sanitizer cartridge
- Integrated 7-gallon waste bin helps keep lobby clean
- Holds standard-size tissue and face mask boxes (not included)
- Displays CDC-compliant "Cover Your Cough" poster
- Quick-loading, easy-to-clean design
- Locking storage compartment secures supplies
- ADA compliant
- Backed with A-dec 5-Year Warranty

The Protect and Sanitize Station is also available without the hand sanitizer dispenser and PURELL® cartridge. For more information, visit a-dec.com/protect or contact your authorized A-dec dealer. PURELL is a registered trademark of GOJO, Inc.

Gentex PureFlo PF3000

Gentex Corporation

Available by contacting your Friendly Benco Rep at 1.800.GO.BENCO

PureFlo 3000 is the only head-mounted, all-in-one, loose-fitting, powered air-purifying respirator (PAPR) approved by the National Institute for Occupational Safety and Health (NIOSH) for use in the United States.

- ***Pureflo 3000*** is a positive-pressure respirator and therefore does not need to be tightly sealed around the face.
- Positive air flow across the faceshield eliminates fogging.
- The faceshield can also be raised and lowered when communicating vs. performing a procedure.
- Particle filtration exceeds what is provided by an N95 mask while integrating complete eye and face protection and delivering clean, cool breathing air.
- Accommodates most loupes, weighs less than 3 lbs. and noise level is less than 70 decibels.

**The main benefit of the all-in-one design is the speed with which the system can be taken on and off – seconds vs. the minutes associated with a waist-mounted powered air respirator.*

AIR PURIFICATION

UV Angel Air

UV Angel *(uvangel.com)*

UV Angel has combined years of advanced research and development with UV light and IOT enabled technologies to create a modern and effective air treatment system engineered into a ceiling fixture called ***UV Angel Air***. The patented UV-C light technology has been proven up to 99.99% effective in tests.

- Works by drawing contaminated air containing viruses, bacteria and fungi into a sealed UV-C chamber where they are quickly neutralized. Clean, treated air is then circulated back out into the room.
- The ***UV Angel Air*** can help reduce the spread of infectious aerosols between patients and staff.
- Operates continuously in occupied spaces, requiring no staff interaction.
- Recirculates a 100 sq. ft. room, four times every hour.
- Research has shown that reducing contamination in the air also reduces bacteria and fungus on surfaces.

Pure Breeze

Vaniman *(vaniman.com)*

The ***Pure Breeze HEPA Air Purifier*** is a portable air purifier that scrubs the air of dust, chemicals, and biological hazards. This laboratory grade HEPA air cleaner is extremely quiet and ideal for many different air filtration applications. It scrubs the air and filters microbes, dust, particulates, fumes, odors, and vapors thanks to a 4-stage filtration system. It offers 550 cfm resulting in 37.5 air changes per hour in a standard operatory room. This unit is half the price and size of comparable air purifiers and is made is USA.

EXTRA-ORAL SUCTION

Vanguard Gold Mobile

Vaniman *(vaniman.com)*

The Vaniman ***Vanguard Gold Mobile*** is an extraoral aerosol suction system that utilizes HEPA filtration to safely capture biological aerosols during dental procedures. It utilizes a long flexible tubing system which can be adjusted as needed to work with any delivery system. It features 23kpa of suction power and operates at a quiet 53dB. It is made in the USA and has a very low cost of ownership.

FX2 Aerosol Control Solution

Nederman Inc. *(nederman.com/en-us/applications/aerosols-suction)*

Nederman's ***FX_2 Aerosol Control Solution*** protects dentists, patients and staff from the dangerous effects of hazardous aerosols created by routine dental procedures. Our solution is an engineering control that serves as an additional safety layer of protection featuring a ceiling-mounted FX_2 high-volume extraction arm to effectively capture up to one hundred percent of aerosol (when properly positioned near the source). Once captured, it is recommended to safely exhaust the aerosol from the building using a certified HEPA filter as required.

- Effective capture of aerosols at the source
- Prevent migration throughout the room
- Protects the dentist and patient breathing zone
- A secure, ceiling-mounted and permanent engineered solution
- Reliable, easy to operate extraction arm
- Unique, certified HEPA filter kits for simple installation
- Engineered fans to ensure proper airflow and capture

JADE

Surgically Clean Air *(surgicallycleanair.com)*

Surgically Clean Air's Jade model employs a 6-stage filtration and sterilization process to remove viruses, bio-aerosols, odors, gases, mold, allergens, and more. It achieves 6 air changes per hour at remarkably quiet 50 dB noise level. No installation is inquired; the compact unit simply plugs into the wall.

For ideal results, place one very affordable ***Jade*** unit in every operatory, another in your waiting area, and one in your sterilization area.

Key features:

- 6 filters: Ultrafine particulate HEPA-Rx filter, activated carbon filter, Germicidal UV-C+ bulbs, hydroxyl radical reactivity chamber, revitalizing negative ION chamber
- HEPA-Rx filters independently tested to remove 99.998% of particles at 0.1 microns.
- Noise-canceling, sound dampening design compact: 33.5" x 12" and 31 lbs.
- Power: 120V, 60Hz

Miracle Suction

DiaDent *(diadent.com)*

Miracle Suction features mouth mirrors with multiple suction holes to reduce infectious aerosols. Fewer instruments in the oral cavity, less obstruction for the dentists, assistants, and hygienists, and Increased level of comfort and quality of care for the patients.

- Strong tongue retraction
- Anti-fog mirror providing clear view
- Assists with sealant placement
- Eight holes in the mirror head - rapid suction of liquid while preventing suction on cheek and tongue
- Color-coded and comfortable silicone handles for easy identification and fits into all suction unit on unit chairs
- Adapter to fit the unit into HVE (High Volume Evacuation) hand-piece to reduce infectious aerosols
- 100% stainless steel and fully autoclavable
- Cleaning brush for the hose to remove debris
- Effective especially in pedodontic treatment, scaling and restorative procedures

ShieldVAC

TBS Instruments *(shieldvac.com)*

shieldVAC™ by TBS Dental is the first line of defense in reducing bacteria, viruses, and debris by capturing expelled dental aerosols in advance of personal protective equipment (PPE). In three simple steps, shieldVAC's sleek, patent-pending design quickly and easily retrofits any operatory chair and utilizes the existing HVE.

- ***shieldVAC*** utilizes an adjustable arm attached to a shield that stays steady where positioned, making two-handed hygiene possible without an additional assistant to hold HVE.

DOVE Aero HVE Saliva Ejector

Dove Dental Products *(dovedentalproducts.com)*

DOVE Aero HVE Saliva Ejector features a patent-pending external aerosol chamber utilizing the airflow from the HVE to effectively manage aerosol. The one-way flap design guarantees backflow is eliminated for every patient. ***DOVE Aero HVE Saliva Ejector*** increases patient safety and helps prevent cross-contamination between patients through use of a new, disposable valve for every patient. It is easy to connect and developed for use in-line with traditional dental equipment, reducing discomfort for both the patient and hygenist.

- Provides HVE power with saliva ejector comfort
- External evacuation using traditional instrumentation up to 95%
- Backflow is removed using the HVE
- Single-use for increased patient safety

CLINICAL EVALUATION

SNOW® Teeth Whitening System ++++

SNOW www.trysnow.com

dentaladvisor.com RATING SYSTEM: Excellent + + + + + Very Good + + + + Good + + +

DENTAL ADVISOR ++++

40 DENTAL PROFESSIONALS

417 TOTAL USES

87% CLINICAL RATING

Key features: Teeth whitening system ● Take-home kit ● Whitening serum is LED activated ● LED-activating light mouthpiece (one-size)

Description

SNOW's® all-in-one teeth whitening system:

- Engineered to react to LED technology and accelerate whitening
- Wired LED mouthpiece
- Does not cause sensitivity
- Safe for use with crown and bridge, veneers, and braces
- 9-minute application for up to 21 days

Indications

- Ages 9+
- Whitens smoking, coffee, soda, and wine stains
- Approved to use on: Veneers, Braces, Crowns, and Bridges
- Tetracycline staining

Clinical Tips

- Mouthpiece can rub on exostosis.
- Lay back while whitening.
- Start out using the silver wands and switch to the stronger gold wand if needed.

Kit includes:

Unique Attributes

- No impressions, as no custom trays are needed
- LED activating light
- Desensitizing serum
- Two strengths of whitening serum
- LED mouthpiece plugs into your phone
- Well packaged, easy-to-use system

"THE ZERO SENSITIVITY WAS GREAT."

Dental Professionals' Comments

"I liked that I could use it anywhere because it plugged right into my phone."

"I used it and liked it so much I had my patients order it online."

"It's easy to apply whitening agent with the click pen applicator."

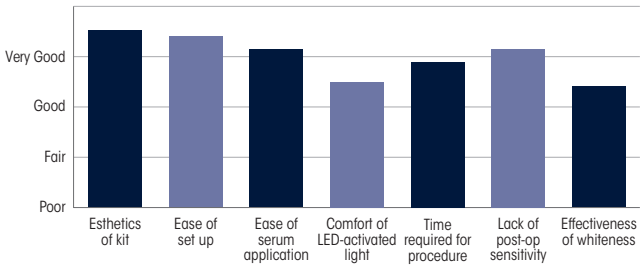
"The instructional videos and the kit were so esthetic you felt like you were getting an amazing value."

"More challenging to retain mouthpiece in small mouths."

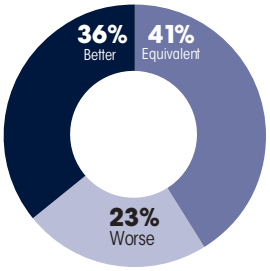
"Increased my saliva production."

"I was not sure how much whitening gel to use."

Evaluation Summary:



Compared to Competitive Products:



Percentage of Consultants Who Would:

80% Want to offer a produd like this for their patients

75% Recommend this product

70% Switch to this product

CLINICAL EVALUATION

elements™ IC Obturation System

+++++

Kerr Endodontics www.kerrdental.com

dentaladvisor.com RATING SYSTEM: Excellent + + + + + Very Good + + + + Good + + +

DENTAL ADVISOR +++++

10 CLINICAL EVALUATORS

123 TOTAL USES

96% CLINICAL RATING

Key features: Cordless downpack and backfill endodontic devices
- Enhanced version of ***elements™ free obturation system***
- Continuous wave warm vertical condensation technique

Description

The ***elements™ IC Endodontic Obturation system*:**
- Cordless
- Downpack heat source and backfill gutta percha extruding unit in one system
- Inductive charging and extended battery life compared to previous versions
- Backfill unit contains precise digital temperature control with rapid heating and adjustable heating range
- Downpack unit features aerogel insulation for a high level of protection against heat

Indications

- Obturation of endodontic canals
- Designed for use with continuous wave warm vertical condensation technique

Unique Attributes

- **360° ring switch** on both units allows for more ergonomic activation of the units regardless of the angle the unit is being held.
- **20% faster** extrusion of gutta percha from the backfill unit for faster fills.
- **Cartridge level indicator** on backfill device removes the need for guessing how much gutta percha is left in the cartridge.

Clinical Tips

- The unit has an automatic shut-off timer, so do not start warming the units too early or they may shut-off before you are ready to use them.
- Do not overlook the included cartridge tip bender. It is very effective at obtaining the desired angulation of the gutta percha cartridge tips prior to obturating.
- The smaller tips bend very easily. Be cautious when placing into the canals, as to not bend them out of shape.

"THE GUTTA PERCHA CARTRIDGE TIPS WERE EASY TO BEND AND INSERT INTO THE CANALS."

Evaluators' Comments

"Very smooth injection of gutta percha."

*"I have a traditional **elements™** obturation system, and the new **elements™ IC** is cordless and more ergonomic!"*

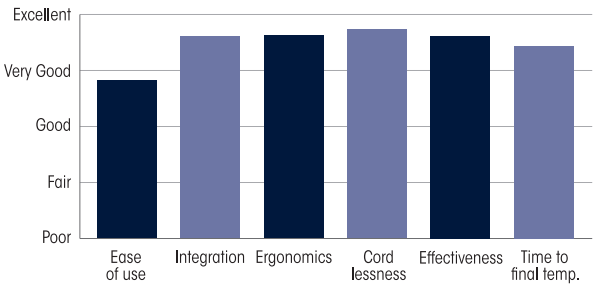
"The gutta percha slightly backed up after extruding, which was nice."

"I liked the speed that the system heated to my desired temperature."

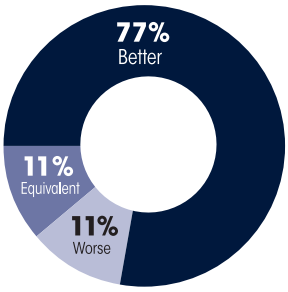
"I would prefer it if the time it takes for the plunger to travel through the hand piece to engage the cartridges was faster."

"The unit would 'time-out' and automatically shut-off quicker than I would like."

Evaluation Summary for elements free:



Compared to Competitive Products:



Consultants who would:

89% Recommend to a colleague

11% Not recommend to a colleague

Consultants who would want to stock in office:

88% Yes, instead of current product

12% No

CLINICAL EVALUATION

Profluorid® Varnish

VOCO www.voco.dental

+++++

dentaladvisor.com RATING SYSTEM: Excellent + + + + + Very Good + + + + Good + + +

DENTAL ADVISOR +++++

41 CLINICAL EVALUATORS

1529 TOTAL USES

96% CLINICAL RATING

Key features: Fluoride varnish • 5% sodium fluoride and xylitol • Single-dose delivery system

Description

Profluorid® Varnish is a 5% sodium fluoride varnish.

- Non-messy, single-dose delivery system that includes the applicator brush.
- Transparent, tooth-shaded color - no obvious appearance on patient's teeth.
- Five flavors: Melon, Cherry, Mint, Caramel, and Bubblegum*.
- Contains Xylitol.
- Does not contain common allergens: tree nuts, peanuts, corn, shellfish, eggs, milk protein, soy, gluten, triclosan, petroleum, red dye/artificial coloring, saccharin or aspartame.

*New Cola Lime flavor added since this evaluation

Indications

- Treatment of hypersensitive teeth
- Sealing of the dentinal tubules for cavity preparations or sensitive root surfaces

Single-dose delivery system with applicator brush included

Unique Attributes

- Teeth do not have to be dry to apply - they can be moist.
- Sets quickly in seconds after contact with saliva.
- Enhanced flow characteristics to reach areas that otherwise may be missed.

Clinical Tips

- To achieve optimum sensitivity relief, I found that two applications worked the best.
- If too much is applied, it gets goopy when mixed with saliva. Therefore, when placing make sure to focus on applying a thin coat.
- Be mindful of placement, as it can be a hassle to remove from soft tissues.

Clear application

"IT ADHERES TO THE TEETH QUICKLY AND VERY EFFECTIVELY."

Evaluators' Comments

"Easy application, even in less-than-ideal situations."

"I received good feedback from patients that their sensitivity was reduced."

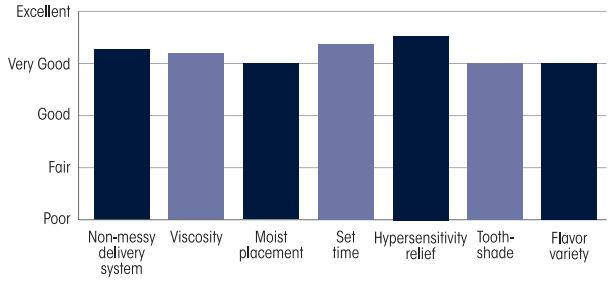
"Great flavor selection and patients liked the taste."

"I like that the color of the material does not stand out on a patients' teeth."

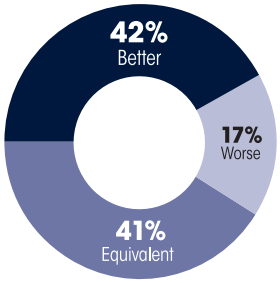
"Teeth can be moist while applying this varnish."

"I did not like the immediate setting and crystallization of the fluoride while applying it in too moist an environment."

Evaluation Summary:



Compared to Competitive Products:



Consultants who would:

93% Recommend to a colleague

7% Not recommend to a colleague

Consultants who would want to stock in office:

75% Yes, instead of or in addition to current product

10% No, however I might want to order it for certain cases

EarAID™

Forward Science www.forwardscience.com

++++

DENTAL ADVISOR ++++

28 CLINICAL EVALUATORS

460 TOTAL USES

88% CLINICAL RATING

Photo: Dr. James Olsen

Key features: Electronic hearing protection for the dental setting ● Identifies damaging sound levels and reduces them ● Allows clear communication with patients and team members

Description

EarAID™ is a high-definition electronic earpiece:

- Designed specifically for hearing protection in the dental setting
- High-definition, custom electronic circuit
- Small, lightweight, and easy to use
- Automatically protects against all damaging noise levels
- 7 different ear tips to accommodate a variety of ear canal sizes and noise isolation level needs

Indication

- Protect dental professionals who are exposed to damaging noise from high-speed handpieces, high-volume suction, ultrasonic instruments, model trimmers and other devices.

Unique Attributes

- Allows any sounds at normal levels through te earpiece and only reduces sounds at damaging noise levels
- Easy to hear patients and team members speak while wearing

Clinical Tips

- Turn them on before you put them in your ears, as it is hard to locate the little switch once it is in your ears.

"IT DID A GOOD JOB OF BLOCKING OUT NOISE THAT IS SURPRISINGLY DISTRACTING."

Evaluators' Comments

*"I noticed that there was a definite benefit to wearing **EarAID**. I felt comforted in knowing that my hearing was being protected while wearing. My only regret is that **EarAID** was not around at the beginning of my career."*

"I liked the rapid response to any loud pitch. High volume suction, handpieces etc. were quick to trigger it on; however, I could still hear conversations."

"There were many options to customize the fit in one's ear with different ear tips. They were light weight, low profile, and could detect specific dental frequencies and lower them."

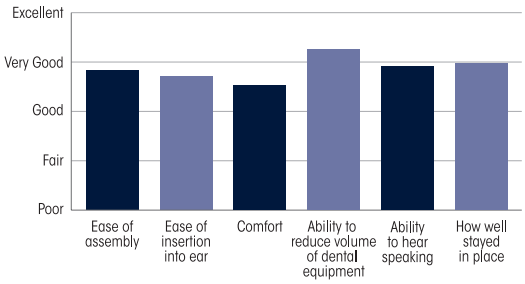
"I am experiencing minor hearing loss and it is a great preventive tool. Every team member should be wearing hearing protection."

"Achieved noise reduction with little reduction of hearing ability."

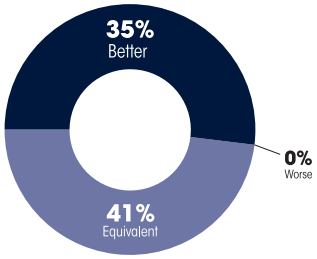
"When you are not used to ear protection, getting used to wearing the device was trying."

"I would like these to have a better battery life."

Evaluation Summary:



Compared to Competitive Products:



Consultants who would:

92% Recommend to a colleague

8% Not recommend to a colleague

Would want to stock in office for self & team members

68% Yes, instead of current product

32% No

CLINICAL EVALUATION

Composite Singles

Meisinger U.S.A. www.meisingerusa.com

++++

dentaladvisor.com RATING SYSTEM: Excellent + + + + + Very Good + + + + Good + + +

DENTAL ADVISOR ++++

35 CLINICAL EVALUATORS

897 TOTAL USES

87% CLINICAL RATING

Key features: Composite polishers ● Single-use ● Unique shape

Description

Composite Singles are single-use polishers designed to:

- Produce a brilliant shine on all resin composite materials
- Allow for easy access to all surface areas with four different shapes
- Fit all right angle/latch handpieces
- Polish in two-steps: pre-polish and high shine

Indication

- Polishing of all resin composite materials

Unique Attributes

- Single-use composite polishers provide confidence in infection control.
- These polishers are very durable and can be used for multiple teeth without breaking down.
- Two-step polishers provide a glossy surface on composite restorations.
- Four different shapes for easy access to all surface areas.
- Features a revolutionary shape, the unique and versatile "Squid"-shaped polisher.

"Squid"-shaped polisher

Clinical Tips

- Utilize the different shapes for posterior adaptability.
- The shapes are very versatile, such as the "squid," which can polish deeper anatomy in posterior teeth.
- Pointed cones are great for corners of Class II composites.

"THESE WERE SUPER EASY AND QUICK TO USE!."

Evaluators' Comments

"It produced a really good shine. I was VERY impressed."

"They did not leave residue on the restoration."

"Could polish multiple teeth with one single."

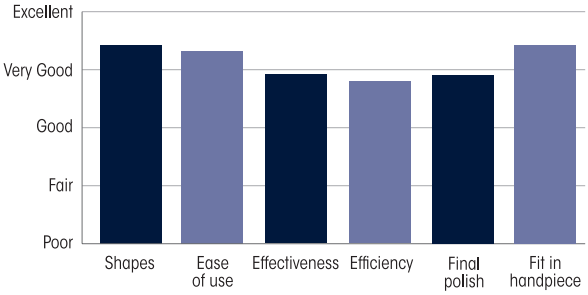
"All the patients stated that their restorations felt better after being polished with these."

"The new "squid" shape worked well for accessing the interproximals of Class II restorations."

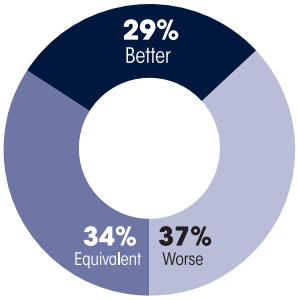
"Some shapes are too large for conservative Class II restorations."

"They felt a bit rigid and could not bend around corners as effectively as a disc."

Evaluation Summary:



Compared to Competitive Products:



Consultants who would:

69% Recommend to a colleague

31% Not recommend to a colleague

Consultants who would want to stock in office:

55% Yes, instead of or in addition to current product

31% No, however I might want to order it for certain cases

DENTAL ADVISOR
Product insights you can trust.

Microbiology Research Report
John A. Molinari, Ph.D., Peri Nelson, B.S.
THE DENTAL ADVISOR Microbiology Research Center
3110 West Liberty, Ann Arbor, MI 48103
Number #48 – May 2012

Cavex ImpreSafe Long-Term Disinfection Study

Objective:

1. To evaluate the antimicrobial effectiveness of ***Cavex ImpreSafe*** on multiple clinical impressions taken over time.
2. To examine the effectiveness of used and re-used ***Cavex ImpreSafe*** preparations by assessing the product's disinfectant capabilities noting the number of uses with the length of time for solution activity

Materials and Methods:

Prepared dilutions of used Cavex ImpreSafe (Cavex Holland BV) solutions were periodically collected from a dental laboratory. These solutions included daily and weekly test intervals. The number of polyvinylsiloxane and polyether impressions disinfected with Cavex ImpreSafe was recorded prior to the culturing of the used solution. In accordance with the manufacturer's instructions, all impressions were disinfected in fresh Cavex ImpreSafe after long-term immersion in the used solution prior to further processing in the dental lab. Assays for possible microbial presence were performed in duplicate by culturing 0.5 mL aliquots of the used impression disinfectant onto trypticase soy agar containing 5% sheep blood and incubated aerobically at 37° C for 24 hours. The surfaces of two types of control impressions were swabbed and cultured in order to compare findings with Cavex ImpreSafe results. These included: 1) freshly collected alginate impressions cultured without any immersion in liquid; and 2) alginate impressions rinsed only with water for 15 seconds. In vitro microbial growth was assessed by counting resultant bacterial colonies.

Results:

Cultures from freshly taken alginate impressions demonstrated a variety of bacterial colonial forms (Figure 1). Rinsing the collected impressions with tap water for 15 seconds prior to taking swab samples reduced the number of detectable colonies, yet this procedure still left numerous bacteria on the material surfaces (Figure 2).

In contrast, all of the samples taken from the used Cavex ImpreSafe solution were negative for microbial growth. As shown in Table 1, this portion of the study was concluded after a seven-week interval.

Table 1. Summary of *Cavex ImpreSafe* impression disinfectant use over time

Days of *Cavex ImpreSafe* Use	Cumulative Number of Impressions Treated	Culture Result
0	0	negative
1	10; 14; 15; 17	negative
2	37	negative
6	70	negative
7	75	negative
14	118	negative
21	167	negative
28	216	negative
42	332	negative
49	380	negative
--	Untreated impression	positive
--	Impression + water rinse	positive

Figure 1: Bacterial culture of untreated salivary sample taken from surface of impression.

Figure 2: Bacterial culture of salivary sample taken from surface of impression after a 15-second rinse with tap water.

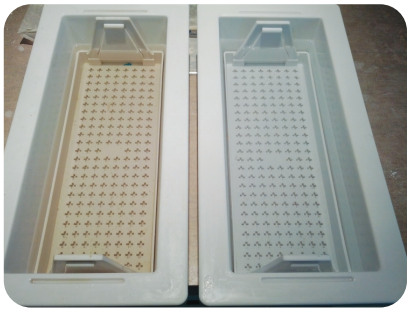


Figure 3: Color change noted between freshly prepared ***Cavex ImpreSafe*** (right) and 49 day-old reused solution (left).

Discussion:

One of the frequently asked questions about disinfection of dental impressions pertains to the length of time immersion disinfectants can be re-used before they should be changed. In the literature supplied with ***Cavex ImpreSafe***, the manufacturer states that the 3% solution is effective for approximately one week. In this preliminary study, however, a prepared solution was re-used for seven weeks to disinfect 380 impressions without any evidence of viable bacterial contamination within the disinfectant fluid. Accumulation of debris from the impressions was evident within the liquid by observing the color change of the preparation from day 1 to day 49 (Figure 3). Collected material from the impressions and the patients' mouths darkened the solution color.

Summary:

No viable bacteria were detected in a solution of ***Cavex ImpreSafe*** immersion disinfectant that was re-used for 49 days. In contrast, aerobic cultures of samples from untreated impressions demonstrated high concentrations of oral bacteria. With regard to clinical relevance, this study proved that even with long-term use, Cavex ImpreSafe is a highly effective impression disinfectant. However, as accumulation of debris and color change of the preparation can influence the quality of impressions, it is strongly advised to renew the preparation at least every week. Besides, the solution level will decrease during usage and it is important that the level is sufficient to provide total immersion of treated impressions.

Clinical Evaluator SPOTLIGHT

Dr. Paul Chaiken

What made you decide to become a DENTAL ADVISOR Clinical Evaluator?

"I consider it a big honor and a privilege to be part of the DENTAL ADVISOR organization doing anything I can to help out with learning about new materials and products. I like to keep on the forefront of dental therapies and what I get from working with DENTAL ADVISOR and my affiliations at Northwestern really help me in private practice. I would recommend becoming a consultant without question."

MANUFACTURER TESTIMONIAL

Haseeb Sajid, CEO for **TBS Dental**, poses proudly with DENTAL ADVISOR 2020 Top Oral Surgery Instrument Award banner for ***FRINGS®***

"DENTAL ADVISOR is one of the most credible and respected institutions in the industry. We submitted a product to them two years ago and the professionalism and service that they provided was phenomenal. We plan on working with them again in the future."

SPECIAL THANKS TO:

Select Senior Clinical Evaluators (Over 20 years):

R. Fisher, OH · E. Katkow, MD · J. Lockwood, MI · G. Poy, MI · R. Trushkowsky, NY · P. Yaman, MI · K. Baker, TX · F. Berman, PA · J. Bostic, OH · L. Brimhall, MT · M. Briskin, NY · W. Brownscombe, MI · R. Ciccone, MI · C. Colbert, MI · M. Conrad, PA R. Dost, VA · J. Doueck, NY · M. Eannaccone, NY · K. Fairbanks, MI · M. Feinberg, NY · K. Fischer, IN · G. Franco, NY · N. Garlisi, OH · S. Graber, IL · P. Grandsire, NY · E. Gutman, NY · D. Haas, Ontario · K. Hamlett, TX G. Hart, OH R. Herwig, KS · J. Kaminski, MI · R. Kaprielian, NJ · M. Kastner, OH · D. Keren, NY · M. LaMarche, WA · J. Leitner, MI · S. Lever, MD · R. Lezell, MI · M. Man, NY · B. Manne, FL · N. Mansour, MI · N. Markarian, CA · C. McLaren, MI · J.W. Mikesell, IL R. Mizrahi, NY · G. Mosso, PA · E. Mosso, PA · J. Nash, MI · A. Nazarian, MI · R. Oshrain, NY · J. Paris, TX · D. Parris, GA · M. Patel, MI · D. Peterson, MD · T. Pieper, WY · D. Pitak, MI · V. Plaisted, NY · D. Qualliotine, NC · G. Raichelson, Ontario G. Reskakis, NY · K. Schwartz, FL · J. Shea, MO · B. Shumaker, NJ · B. Sims, NY · P. Symeonides, NY · H. Tetalman, OH · C. Trubschenck, CA · S. Ura, NH · W. Walcott, MI · M. Waranowicz, MI · L. Wee, MI H. Yeung, CA · P. Zanetti, MI · S. Zimmer, MI

Clinical Evaluators (19 years or less):

D. Aaron Matatiaho, CA · A. Albright, NY · B. Argersinger, NC · R. Arif, OH · P. Arsenault, MA · G. Ash, MI · S. Baker, GA · M. Bannan, NC · B. Barricklow, OH · L. Bartoszewicz, MI · B. Bauer, IL · J. Bechtel, MI · J. Bechtel, MI · M. Best, MI · L. Bishop, MI · T. Bizga, OH G. Bloomfield, MI · G. Bonior, MI · C. Brown, LA · E. Brust, MI · S. Bunek, MI · J. Bunek, MI · J. Bush, PA · H. Cadorette, MI · M.Capalbo, RI · M. Caligiuri, CA · P. Campo, NY · P. Cracchiolo, MI · D. Chacko, TN · P. Chaiken, IL · R. Cherry, FL · R. Chuang, CA M. Connelly, MI · S. Crawford, MI · J. Curley, NC · W. K. Dancy, GA · S. Dillingham, NY · K. Dobracki, MI · S. Doniger, IL · J&E Duski, MI · A. Dutko, MI · M. Egbaria, IL · M. Elford, MI · O. Erdt, MI · K. Evanoff, MI · M. Evers, OH F. Facchini, MI · F. Falcao, FL · L. Feldman, NJ · G. Fink, DE · M. Frankman, SD · M. Glovis, MI · C. Goldin, MI · M. Grant, MI A. Green, MI · R. Green, MI · B. Greenwood, UT · J. Griffin Jr., MO · K. Grindling, MI · P. Gronet, KY · R. Grossman, PA H. Gulati, MA · F. Haddad, MI · G. Haddad, CA · J. Haddad, MI · A. Hakhamian, CA · J. Hamerink, MI · W. Hanna, MI · A. Harris, OH · J. Hastings, CA · A. Hodges, NC · C. Huang, CA · M. Huberty, WI · J. Ireland, MI · S. Irwin, NJ · C. Jaghab, MI · J. Jaghab, MI W. Jenkins, MI · T. Jolly, TN · R. Juluri, IL · M. Kachi-George, MI · D. Kapp, NY · J. Kane, MI · Y. Kang, MA · J. Karam, MI · G. Karaouzas, MI · E. Kelly, GA · J. Kelly, GA · L. Kemmet, MN · M. Koczarski, WA · L. Knowles, MI · B. Kolb, MI · GA Krishnan, CA · E. Kuns, OH C.Laird, OR · T.Lam, CA · R.Le, NC · I.Levine, NY · E.Lowe, BC, CAN · J.LueYen, GA · A.Malkis, NY · C.Manduzzi, MI · J.Mangutz, MI · K.Mantzikos, NY · B.Mayday, MI · T.McDonald, GA · J.McLaren, MI · M.McMullin, MI · G.Meylan, MI · M.Migdal, MI · M.Miller, NC · J.Mills, MI · J.Minsky, CA L. Montes, NY · A. Moore, NC · L. Motyl, MI · M. Murphy, MI · M. Murrell, MI · L. Musgrave, MI · M. Nasif, MI · B. Neren, NY · J. Neuman, MI · J. Olitsky, FL · J. Olsen, MI · E. O'Niel, MI · F. Orlando, NY · S. Owens, MI · A. Paal, TX P. Panchal, NC · R. Parikh, IL · J. Parrott, MI · U. Patel, CA · D. Perkins, MI · N. Pelachyk, MI · B. Peterson, MD · W. Phillips, MI · S. Picazio, NJ · B. Picot, NC · C. Pike, MI · C. Piontkowski, MI · B. Pittsley, MI · J. Poskozim, IL · B. Pournaras, SC · A. Prince, UT D. Radtke, MI · G. Ramos, NY · C. Ramsey, FL · G. Rashall, TX · S. Reddy, MI · N. Rego, CA · J. Riggs, MI · M. Rojas, IL · J. Rowe, AR · J. Rubin, DC · A. Saddy, MI S. Salhadar, MI · P. Saurer, OH · P. Scalia, MI · C.Scanlon, MI · J. Schau, MI K. Schier, MI · A. Schraner, NY · V. Scola, CA · L. Seluk, MI · R. Selvan, NJ · Y. Shaheen, MI · M. Shapiro, MI · A. Shemesh, IN · E. Simanian, CA · S. Simos, IL · J. Slatkoff, FL · J. Smith, MI · C. Stevens, OK · B. Stieper, MI · R. Surana, CA · G. Sutton, CA G. Tarantola, FL · T. Teel, IN · C. & L. Thorpe, MI · L. Trost, IL · S. Uchil, MI · A. Valentine, MI · H. Vann, MS · C. Vinkovich, OH · J. Weinfield, MI · B. Wilk, PA · K. Wilson, MI · D. Wolf, MA · W. Wright, CA · Y. Yi, MA · D. Young, MI · S. Yun, MI M. Yurth, WA J. Zanetti, MI · A. Zucker, OH

Laboratory Consultants:

Apex Dental Milling, MI