



BUYING GUIDE

The Best Products for 2021

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Every year Clinicians Report publishes an annual guide of many of the best products for the upcoming year *based on evaluations from the previous twelve months*. The products presented in this report have been through rigorous, independent, non-manufacturer-sponsored evaluation and testing. **CR conducts research at three levels:**

1. Product evaluations among 450 clinical evaluators worldwide in their own offices
2. Controlled long-term clinical research completed by TRAC Research, the human studies section of CR
3. Basic science laboratory testing

Products listed in this Buying Guide have been evaluated by the CR Science Team and CR Clinical Evaluators. Each product in this report is color-coded to identify why it has been included in this listing. Products that are not listed may not have been tested this year, may still be in testing, or were not among the highest rated. This is not an all-inclusive list of successful dental products. **For many other excellent products not mentioned, please review previous CR Buying Guides and Clinicians Reports at www.CliniciansReport.org.**

PROVEN PRODUCTS

are listed alphabetically and in red. These products have been determined by research and long-term clinical use and are commonly used and generally accepted by CR Evaluators. New products are often compared to them. Some categories may not list proven products.

HIGHLY RATED NEW PRODUCTS

are listed alphabetically and in blue. They were identified by in-house science evaluations and CR Evaluator use *during 2020*. Only products with an overall grade of 3.0 or higher (4.0 highest) and an Evaluator recommendation of 70% or greater are included.

THE TOP NEW CONCEPTS AND MUST HAVE PRODUCTS FOR 2021!

#1 New Glass Ionomer (GI) Restoratives

Newest Glass Ionomer (GI) restoratives are **more sculptable**, therapeutic (*F* release), and radiopaque. **GIs are the only restorative that actually seals to tooth structure!** See *Glass Ionomer Restoratives* page 14 and *Clinicians Report* January 2020.



Products: EQUIA Forte HT, GC America; Ketac Universal Aplicap, 3M

#2 Face Shields

COVID-19 has motivated clinicians to use face shields. CR identified one brand that **accommodated loupes, headlamps, and has other convenience features**. See *Eye Protection* page 4 and *Clinicians Report* November 2020.



Product: Loupes Face Shield, Ultra Light Optics

#3 "Semi-Permanent" Crowns/Prostheses

COVID-19 and economic challenges have many patients and dentist seeking **less expensive restorative options**. One innovative provisional restorative fills this need! See *Provisional Materials* page 12 and *Clinicians Report* February 2020.



Product: LuxaCrown, DMG America

#4 Patient Education

Patients are **motivated to treatment when they can visualize their needs**. One IO Camera has **consistent performance, high quality image, and low cost!** See *Cameras: Intraoral Video* page 2, and *Clinicians Report* January 2020.



Product: MouthWatch, MouthWatch

ANESTHETICS AND ACCESSORIES

Delivery Aids

Proven Products:

- **CompuDent**, Milestone Scientific
- **DentalVibe**, BING Innovations
- **VibraJect**, A. Titan Instruments



Palatal Anesthesia Device, Master Dental

Instrument can help clinicians accomplish pain-free palatal injections. Design allows **effective, pain-free delivery of anesthesia.**

\$48/Instrument

See also Clinicians Report June 2020

Local Anesthesia

Proven Products:

- **Articaine**, Various Companies
- **Bupivacaine**, Various Companies
- **Lidocaine**, Various Companies
- **Mepivacaine**, Various Companies

Needles



Painless Steel, (Transcodent) Sulzer Mixpac USA

Injection needle with three-edge lancet tip **provides smooth, lower-force penetration.** Bevel marking and safe packaging. Three gauges and three lengths.

\$16/Box of 100 (16¢/Needle)

See also Clinicians Report March 2020

DIAGNOSIS AND TREATMENT PLANNING

Cameras: Clinical and Accessories

Proven Products: Single-Lens Reflex and Point and Shoot

- **Various Models from the following companies:**
 - Clinipix
 - PhotoMed
 - Lester A. Dine

Cameras: Intraoral Video

See also Clinicians Report January 2020: “Intraoral Cameras: Increasing Treatment Plan Acceptance Through Patient Education”

Proven Products:

- **Various Models from the following companies:**
 - ACTEON North America
 - Digital DOC
 - Air Techniques
 - KaVo Imaging
 - Carestream Dental
 - MouthWatch
 - Dentsply Sirona
 - Video Dental Concepts



CS1500 (Updated Proven Product), Carestream Dental

Intraoral camera with **auto focus lens.**

\$4,500

See also Clinicians Report January 2020



CamX Triton HD (Updated Proven Product), Air Techniques

Intraoral camera with auto-focus lens and high resolution. **Optional accessories for fluorescence caries detection and transillumination.**

\$5,600

See also Clinicians Report January 2020



DEXcam4 HD (Updated Proven Product), KaVo Imaging

Intraoral camera with **variable focus lens and high resolution.**

\$5,995

See also Clinicians Report January 2020



Iris 2.0 (Updated Proven Product), Digital DOC

Intraoral camera with variable focus lens.

Optional accessory for transillumination.

\$5,995

See also Clinicians Report January 2020



MouthWatch (Updated Proven Product), MouthWatch

Intraoral camera with fixed focus lens suitable for patient show-and-tell. **Excellent picture for low-cost camera.**

\$299

See also Clinicians Report January 2020



Sopro 717 First (Updated Proven Product), ACTEON North America

Intraoral camera with **variable focus lens.**

\$4,417

See also Clinicians Report January 2020

ENDODONTICS

See also Clinicians Report April 2020: “Root Canal, Implant, or Fixed Partial Denture? A Clinician’s Dilemma”

Apex Locators

Proven Products:

- **Foramatron D-10**, Parkell
- **Root ZX II and Root ZX Mini**, Morita

Endodontic Systems

Proven Products:

- **E3 and ProMark (rotary and reciprocating)**, Dentsply Sirona
- **Endo-Express (reciprocating)**, EDS (Essential Dental Systems)
- **Endo-Eze (various, reciprocating)**, Ultradent Products
- **EndoSequence II (rotary)**, Brasseler USA



Tri Auto ZX2 (Updated Proven Product), Morita

Cordless endodontic handpiece is compact and **cordless.** It has torque reverse, apical stop, and built-in apex locator technology that is well established and used by many dentists.

\$2,399/System

See also Clinicians Report September 2020

Files

Proven Products:

- **EdgeFile, EdgeEndo**
- **Endo-Eze**, Ultradent Products
- **EndoSequence CM**, Brasseler USA
- **GT Series X, ProFile, ProTaper, and WaveOne Gold**, Dentsply Sirona
- **HyFlex**, Coltene
- **K-Files**, Roydent and others
- **OneFile G Reciprocating File**, Pac-Dent
- **SafeSider**, EDS (Essential Dental Systems)
- **TF Adaptive**, Kerr Dental

Obturation

Proven Products:

- **Carrier-Based Obturation**, Various Companies
- **Cold Lateral Condensation**, Various Companies
- **Single-Cone Obturation**, Various Companies
- **Warm Vertical Obturation**, Various Companies



elements IC, Kerr Dental

Cordless heated obturation system with simple functions and safety features. **Heats quickly and accomplishes placement of gutta percha efficiently.**

\$2,995/Unit

See also Clinicians Report June 2020

Sealers/Endodontic Cements

Proven Products:

- **AH 26 and AH Plus (epoxy)**, Dentsply Maillefer
- **Apexit Plus (calcium hydroxide)**, Ivoclar Vivadent
- **Endo-Eze MTAFlow Cement (MTA) and EndoREZ (methacrylate resin)**, Ultradent Products
- **Endosequence BC Sealer (calcium silicate)**, Brasseler USA
- **GuttaFlow 2 (gutta percha and silicone)**, Coltene
- **NeoMTA 2 (MTA)**, Avalon Biomed
- **Nogenol (zinc oxide, non-eugenol)**, GC America
- **ThermaSeal Plus (epoxy)**, Dentsply Sirona
- **Tubli-Seal Xpress (zinc oxide, eugenol)**, Kerr Dental



EdgeBioceramic Sealer, EdgeEndo

Easy-to-use calcium silicate endodontic sealer with reasonable price, **simple dispensing of premixed sealer**, and self-cure.

\$129/2-gm Syringe (\$64.44/ml)

See also Clinicians Report February 2020

ESTHETIC DENTISTRY

See *Prosthodontics, Fixed/Removable (page 8–12)* and *Restorative/Operative/Pediatric (page 13–15)*

IMPLANTS: PROSTHODONTICS

See also *Clinicians Report April 2020: “Root Canal, Implant, or Fixed Partial Denture? A Clinician’s Dilemma”*

Cements, Implant

CR Note: Implant cement is ideal to secure prosthesis to implant and allow removal of prosthesis without damage to prosthesis or implant if re-treatment is required or screw loosens. It may be placed only on the most apical 2 mm of crown to allow removal if necessary. **CR suggests screw-retained implant crowns whenever possible.**

Proven Products:

- **Premier Implant Cement Plus**, Premier Dental
- **Retrieve DC Implant Cement**, Parkell
- **Telio CS Cem Implant**, Ivoclar Vivadent



Premier Implant Cement Plus (Updated Proven Product), Premier Dental

Well-received implant cement with **improved radiopacity**. An excellent cement for implants.

\$69/Kit (\$13.82/ml)

See also Clinicians Report September 2020

Implant Stability and Detection

Proven Products:

- **Osstell IDx**, Osstell
- **Penguin RFA**, Aseptico
- **Spotter**, Forum Tec



Osstell Beacon, Osstell

Handheld device to monitor implant stability with well-evidenced accuracy and easy use. **Numeric value**, colored aid, free online data storage, and patient communication tool.

\$2,980/Instrument

See also Clinicians Report July 2020

IMPLANTS: SURGERY

Implants

Proven Products: Conventional Diameter

- **Various from the following companies:**
 - BioHorizons
 - Straumann
 - Implant Direct
 - Zimmer Biomet Dental
 - Noble Biocare

Proven Products: Small Diameter

- **Various from the following companies:**
 - Dentatus
 - Sterngold
 - Intra-Lock
 - Zest Dental Solutions

INFECTION CONTROL/OSHA/EPA COMPLIANCE

See also *Clinicians Report May 2020: “COVID-19: Updated and Latest Dental Implications and Solutions”* and *“Dental Office Infection Control Myths and Dangerous Beliefs”*

CR Note: Go to www.CliniciansReport.org for a list of tested and proven infection control products and other valuable complimentary infection control information.



Preparing for Your Return to Dental Practice in the New COVID-19 World, Gordon J. Christensen Practical Clinical Courses

3-hour streaming video with well-respected microbiologist instructor Rella P. Christensen, RDH, PhD. Prevent unnecessary exposure and maximize infection control effectiveness.

\$295 including 3 CE Credits (Item: X2407)

Air Purification

See also *Clinicians Report* August 2020: “**DENTAL TREATMENT AEROSOLS: What is the real story?**”

CR Note: The COVID-19 pandemic has made air purification a “**Buyer Beware**” market. Research is needed to verify ability of devices to remove or deactivate microbes within aerosols in the clinical environment. CR is currently evaluating numerous air purification devices and concepts. Management of airborne microbes should start at: 1) oral cavity, 2) clinician’s body, and 3) office entries. Use the 8 steps easily available to all office teams (see *Clinicians Report* August 2020) and then extend to adjunct products that treat ambient air. **No one device, method, or step SOLVES the problem;** a combination approach is needed. **Correct angulation and use of HVE reduces aerosols significantly.**

Proven Products:

- **Phantom, Gordon Inc.**

Dental Unit Water Quality

CR Note: Coolant water, often implicated by ads, should not be an issue if water meets the ADA standard of ≤ 500 cfu/ml. **Patient oral microbes are the issue, not coolant water microbes.**

Proven Products: Independent Bottle Treatment

- **Sterisil Straw V2, Sterisil**



Dental Waterline Testing (HPC Test), Agencis Labs

Accurate and easy dental unit waterline testing with kit that provides collection vessel, procedures, and materials.

\$155/Test Kit (4 Vials)

See also *Clinicians Report* August 2020

Proven Products: Municipal Water Treatment

- **Sterisil System, Sterisil**
- **VistaClear 1000-28-HP, Vista Research Group**

Evacuation Line Cleaners

Proven Products:

- **PUREVAC (evacuation lines), Dentsply Sirona**
- **Vac Attak GREEN, Premier Dental**
- **Z3 Enzymatic Tablets, Benco Dental**



Vac Attak GREEN (Proven Product), Premier Dental

Evacuation system cleaner designed to be **environmentally friendly** and **meet EPA’s clean water act**. Made with neutral pH, enzymatic agents, and no oxidizing agents.

\$66.50/800-gram Container (83¢/Mixture)

See also *Dental Hygiene Clinicians Report* July/August 2020

Eye Protection

See also *Clinicians Report* November 2020: “**Which Face Shields Accommodate Loupes/Headlamps?**”

CR Criteria: Eye glasses have side shields, tolerate routine disinfection, and should be comfortable and economical. Consider face shields to eliminate potential of splatter on face.

CR Note: **Face shields do not replace face masks**, but can protect face, loupes, and lights from splatter.

Proven Products:

- **Face Shield (disposable face shield), Crosstex**
- **Googles (eye shield), Kerr Dental**
- **HS Safety Shield (disposable face shield), Henry Schein**
- **The OP-D-OP II (reusable face shield), Various Distributors**



Googles (Updated Proven Product), Kerr Dental

Large, comfortable, lightweight eye shields. **Reusable frame with easy to snap-on lenses.**

\$36/Kit (10 Frames, 20 Lenses, and 1 Neck Strap)

See also *Clinicians Report* May 2020 and August 2020



Loupes Face Shield, Ultra Light Optics

Durable, sturdy plastic headband is easily cleaned. **Flip-up shield, space to accommodate loupes,** and external headlamp mount make this shield a CR Choice.

\$26.95 (10 Shields and 1 Visor)

99¢–\$4.00/Replacement Visors

See also *Clinicians Report* November 2020

Eyewear, Patient Protective

Proven Products:

- **CCCES Glasses, CCCES Glasses**
- **Protec-A-Lens (P.A.L.), Allpro**
- **Rollens, Rollens**



CCCES Glasses (Proven Product), CCCES Glasses

High quality, effective **patient protective eyewear**. Made from material commonly used in military eyewear applications with scratch- and projectile-resistant lenses.

\$17 Each

See also *Dental Hygiene Clinicians Report* January/February 2020

Face Masks

CR Criteria: Peripheral fit of all face shapes, high filtration of very small particles, **does not contact mucous membranes of nostrils or lips**, comfortable, and economical.

Proven Products:

- **Critical Cover PFL (Positive Facial Lock) with Magic Arch, #615, AlphaProTech (available through distributors)**
- **Isolator Plus N-95 surgical respirator, Crosstex**
- **Triple Layer Molded Face Mask, 3M**



Critical Cover PFL (Positive Facial Lock) with Magic Arch, #615 (Proven Product), AlphaProTech

Soft, pleated, fluid-resistant face mask with high filtration (ASTM Level 3) and excellent peripheral seal. **Magic Arch keeps mask away from lips and nostrils.**

68¢/Mask (available through distributors)

See also *Clinicians Report* May 2020 and August 2020



Isolator Plus N-95 surgical respirator (Proven Product), Crosstex

NIOSH-approved and FDA-cleared flat fold N95 surgical respirator with malleable nose and chin pieces for an **excellent peripheral seal.**

\$2.09/Respirator

See also *Clinicians Report* May 2020 and August 2020

Gloves: Exam and Surgical

CR Criteria: Low manufacturing defects, good fit, good tactile sensitivity, no bitter taste, no tackiness after wetting, resistance to tearing, adequate cuff length, and economical.

CR Note: *There are many proven gloves.* The movement from latex to nitrile or polychloroprene is encouraged because of increasing latex allergies. See also “Infection Control” at CliniciansReport.org.

Proven Products: Nitrile

- **Alasta**, Dash Medical
- **Maverick**, Glovepak USA
- **Miracle**, Adenna
- **StarMed PLUS**, Sempermed USA
- **Transcend**, Cranberry

Proven Products: Polychloroprene

- **BeeSure NeoGreene**, EcoBee
- **Micro-Touch Denta-Glove**, Ansell
- **Patterson Chloroprene**, Patterson
- **Posi-Prene Edge**, Clinical Supply Company
- **Reflection**, SmartPractice

Proven Products: Utility Gloves (*re-usable when autoclaved*)

- **IMS Lilac Gloves**, Hu-Friedy

Instrument Disinfection (Instrument Soaks)

Proven Products:

- **Cidex OPA**, Advanced Sterilization Products
- **Glutaraldehyde**, Various Companies

Instrument Washers

Proven Products:

- **Dental Washer-Disinfector**, Miele
- **HYDRIM**, SciCan

Protective Clothing

See also *Clinicians Report* September 2020: “**Dental Clinical Attire and COVID-19: What to Wear**”

CR Note: To prevent splatter and aerosols from leaving the dental clinic, CDC recommends long sleeves with fitted cuffs; high closed neck; top cut full and long enough to cover lap when seated, or pants that can be laundered after use or discarded; fabric that prevents pass through of body fluids; and tolerable comfort and appearance. Protective clothing must be discarded, sent to laundry, or laundered on site, **but not laundered at home.**

Proven Products:

- **Safewear Hipster Jacket**, Medicom
- **Vestex Clinic Jacket**, ProSafe Products

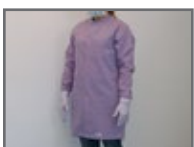


MedFlex Premium Lab Coat, First Medica

Cotton-like fluid resistant fabric in several colors. Good fit and three pockets. **Disposable or reusable when autoclaved.**

\$87/Pack of 10 Lab Coats (~\$9/Coat)

See also *Clinicians Report* May 2020



Vestex Clinic Jacket (*Proven Product*), ProSafe Products

Jackets are easy to clean, reusable, and don't fade. Made with soft and comfortable Vestex fabric. Length covers lap when seated.

\$44/Jacket

See also *Clinicians Report* May 2020

Suction

CR Note: One-liter of fluid suctioned in about 8 seconds gives estimate of good suction strength (*wide mouth Gatorade 1-liter bottle accommodates suction tips*).



Disposable Soft Touch HVE Oral Evacuator, Premium Plus Dental

Disposable HVE tips with soft latex-free edges provides comfort and **prevents sucking up tongue and other soft oral tissues.**

10¢ Each

See also *Clinicians Report* August 2020

Proven Products: Saliva Ejector

- **DryShield**, DryShield
- **Isolite 3**, Zyris
- **Mr. Thirsty One-Step**, Zirc

Surface Disinfection

CR Note: The following high-ethyl alcohol disinfectants are the most effective on the market, but may degrade plastics over time. Sodium hypochlorite (*NaClO*; *Clorox*) will bleach fabrics, can be corrosive to metals, and has strong odor.

Proven Products:

- **BioSURF Bag-in-a-Box (3-minute contact time)**, PureLife Dental (U.S.); Micrylium and Distributors (Canada)
- **Clorox (one part Clorox to one part water for clinical use; 3-minute contact time)**, Clorox Company
- **GermXtra (3-minute contact time; not available in U.S., available in other countries)**, Germiphene Corporation
- **Lysol Spray III (10-minute contact time)**, Rickitt Benckiser



BioSURF Bag-in-a-Box (*Proven Product*), PureLife Dental (U.S.); Micrylium and Distributors (Canada)

Surface disinfectant with desired micro-organism reduction in **3 minutes when in presence of body fluid**. Active ingredients are 70.5% ethyl alcohol and 0.2% chlorhexidine gluconate by weight.

\$80/Five 1-Liter Bags

See also *Clinicians Report* May 2020

Thermometers



Aegis Infrared Thermometer, Cao Group

Non-contact infrared thermometer is accurate and agreed well with sublingual readings on clinical subjects. **Visual alert if temperature registered above 100.4°F (38°C).**

\$90/Thermometer

See also *Clinicians Report* July 2020



ProSense Infrared Thermometer, Pac-Dent

Non-contact infrared thermometer is accurate and agreed well with sublingual readings on clinical subjects. **Audible alert if temperature registered above 100.4°F (38°C).**

\$99/Thermometer

See also *Clinicians Report* July 2020

Ultrasonic Cleaners

See also *Clinicians Report* July 2020: “Ultrasonic Cleaners: What is Needed for Safe Use?”

Proven Products:

- BioSonic, Coltene
- Various, L&R

OCCLUSION

Proven Products:

- AccuFilm II, Parkell
- Arti-Fol, Bausch Articulating
- Madam Butterfly Articulating Silk, Almore
- Occlusal Indicator Wax, Kerr Dental
- Proxi-Chek, Microcopy
- T-Scan Novus (*digital occlusal analysis*), Tekscan
- Trollfoil Articulating Foil, TrollDental



AccuFilm (*Updated Proven Product*), Parkell

Well-accepted articulation paper was updated and new version maintains accuracy. **Thinness of film leaves few extraneous marks.**

\$24.95/Box of 250 Films (10¢/Film)

See also *Clinicians Report* March 2020

OPERATIVE DENTISTRY

See *Restorative/Operative/Pediatric* (page 13–15)

ORAL AND MAXILLOFACIAL SURGERY

See *Surgery: Oral/Maxillofacial* (page 15–16)

ORAL PATHOLOGY

See *Surgery: Oral/Maxillofacial* (page 15–16)

ORTHODONTICS

Clear Aligner Systems

CR Note: The increased prevalence of tooth resorption may be partially linked to rapid movement of teeth. Aligner systems must be used in conjunction with direct supervision by a dentist in office.

Proven Products:

- ClearCorrect, ClearCorrect (Straumann)
- InVisalign, Align Technologies

Interproximal Reduction Strips

Proven Products:

- ContacEZ IPR Strips, ContacEZ
- QwikStrip, Creative Dental Concepts

PEDIATRIC DENTISTRY

See *Restorative/Operative/Pediatric* (page 13–15)

PERIODONTICS

See also *Preventive Dentistry/Oral Hygiene* (page 7–8)



Periacryl 90 HV, Salvin Dental Specialties

Surgical oral tissue adhesive (*thickened and colored cyanoacrylate*) for securing periodontal dressings. **100% of 16 CR Evaluators stated they would incorporate Periacryl 90 HV into their practice.**

\$21.78/ml

See also *Clinicians Report* November 2020

PRACTICE MANAGEMENT

See also *Clinicians Report* March 2020: “Helpful Tips for Building and Marketing Your Dental Practice” June 2020: “TAKE YOUR PRACTICE BACK: Survive and Thrive in the New Dental Economy” and July 2020: “Where is Dentistry Now—July 2020?”

CR Note: Education is mandatory to improve practice activity.

Involve your entire team in educating patients. The hygienist can be one of the most valuable assets in the office to educate patients during the hygiene visit.

Education, Patient

Proven Products:

- ADA Brochures, ADA
- CAESY Cloud, Patterson Dental
- *Change Your Smile* 4th edition by Ronald E. Goldstein DDS, Quintessence
- Cosmetic C&B Model (TRM.348) and various other models, Kilgore
- DDS GP, Kick Your Apps
- Dental Documents Booklet and Simple Patient Education Video, Gordon J. Christensen Practical Clinical Courses
- GURU, Guru Dental
- Stepping Stones to Success Patient Brochures, Stepping Stones to Success



The Grossest, Truly Terrifying, But Utterly Awesome Mouth Book (*Updated Proven Product*), Practicon

Clever motivational book helps patients understand the need for oral hygiene. 64 pages of graphic photographs that **motivate patients to take care of their oral health.** Also available in French and Spanish. Author: Ted Croll, DDS.

\$60/Book

See also *Clinicians Report* September 2020

Education, Self and Staff

See also *Clinicians Report* May 2020: “Virtual Dental Continuing Education is Here!”

CR Note: Your dental team is your most important asset.

Choose your team wisely, educate them properly, compensate them generously, and show them respect. Encourage and promote enthusiasm, and ensure the dental practice is a happy environment. Continuing education: Bring your entire team. **Keep them excited and motivated by regularly providing opportunities to acquire new skills.**

Proven Products:

- CR Dentistry Update Courses and Gordon J. Christensen *Clinicians Report* (monthly publication), CR Foundation
- *Coding with Confidence* (book), Dr. Charles Blair and Assoc.
- *Dental Office Medical Emergencies* (book) and *The Little Dental Drug Booklet*, Lexicomp
- *Emergency Medicine in the Dental Office* (book or video) by Dr. Stanley F. Malamed, Amazon
- *Habits of Highly Effective Investors*, Monday Morning Millionaire
- PCC DVDs, Videos, and Courses, Gordon J. Christensen Practical Clinical Courses
- Ultimate Cheat Sheets, DOC's Education

PREVENTIVE DENTISTRY/ORAL HYGIENE

Bad Breath Treatments

See also *Dental Hygiene Clinicians Report* January/February 2020: "GOOD Treatment Options for BAD Breath"

Proven Products:

- Oolitt original, Elite, and Jr., Oolitt Advantage
- Tooth & Gums Tonic, Dental Herb Company

Dentifrice, Prescription Fluoride

Proven Products:

- PreviDent 5000 Plus, Colgate Oral Pharmaceuticals



Just Right 5000, Elevate Oral Care

5000 ppm fluoride dentifrice in metered dispensing with **quantity appropriate for children**. Well-accepted flavor (*bubble mint*) and smooth consistency.

\$11.83/97-gm Pump (net wt. 3.4 oz)

See also *Clinicians Report* August 2020

Desensitizers, Cervical

See also *Clinicians Report* November 2020: "Making Sense of Sensitivity"

Proven Products:

- Fluoride Varnish 5000 ppm, See *Fluoride Varnish*
- GLUMA Desensitizer Gel, Kulzer
- Pain-Free Gel Dentin Desensitizer, Parkell
- Shield Force Plus, Tokuyama
- TEETHMATE Desensitizer, Kuraray Noritake Dental



GLUMA Desensitizer Gel (Proven Product), Kulzer

Fast-acting 5% glutaraldehyde/35% HEMA is applied in two 1-minute applications. Longevity is minimal if not sealed or restored. CAUTION: Avoid tissue contact. Isolate tissue.

\$171/Kit of Four 1-gram Syringes

See also *Clinicians Report* November 2020



Shield Force Plus (Proven Product), Tokuyama

Simple-to-use, light-cured desensitizer for immediate relief of hypersensitive dentin. 30-second procedure. Glutaraldehyde free.

\$122/Kit

See also *Clinicians Report* November 2020



TEETHMATE Desensitizer (Proven Product), Kuraray Noritake Dental

Fast-acting, bio-compatible (*tetra calcium phosphate and dicalcium phosphate anhydrate*) powder/liquid mixed tooth desensitizer.

\$131/Kit

See also *Clinicians Report* November 2020

Fluoride Varnish

Proven Products:

- Armuor Rx, Massco Dental
- Iris Varnish, Benco Dental
- VarnishAmerica Original and White, Plak Smacker

Interdental Cleaners/Floss

See also *Clinicians Report* February 2020: "Interdental Cleaners: Beyond Flossing"

Proven Products:

- GUM Proxabrush Go-Betweens Cleaners and Soft-Picks Advanced, Sunstar Americas
- Interdental Brushes, EasyPick, Implant Care Kit, TePe USA
- Opalpix, Ultradent Products
- Oral-B Glide Floss, Procter & Gamble
- Rotapoint, Denmat



Aquarius Water Flosser WP-660, Waterpik

Water jet interdental cleaner with pulse-modulation **removes debris** interproximally and subgingivally and stimulates gums. Does not replace mechanical removal of plaque with floss or picks.

\$90/Water Flosser

See also *Clinicians Report* February 2020



GUM Proxabrush Go-Betweens Cleaners (Proven Product), Sunstar Americas

Popular soft bristle/wire interdental brush has **ergonomic handle, and brush head can be bent for access**.

\$32/36 Brushes (89¢ Each)

See also *Clinicians Report* February 2020



GUM Soft-Picks Advanced (Proven Product), Sunstar Americas

Popular wire-free interproximal cleaner with **improved design and longer handle** for easy access of posterior teeth.

\$56/110 Sample Packs (51¢/Sample Pack of 2)

See also *Clinicians Report* February 2020



Opalpix (Proven Product), Ultradent Products

Interdental picks designed to clean between teeth with tight contacts and around bonded retainers. **Textured surface and thin tip provide excellent cleaning**.

\$20/12 Packs (32 Picks per Pack; 5¢/Pick)

See also *Clinicians Report* February 2020



TePe Interdental Brushes, TePe USA

Interdental brushes in a variety of sizes with soft bristles, and large, easy-grip handles. **Especially useful for cleaning around implants**. Has optional plan to receive replacement brushes.

\$6/Pack of 6

See also *Clinicians Report* February 2020

Medicaments: Over The Counter (OTC)

Proven Products: Aphthous Ulcers (*Canker Sores*)

- **Canker Cover**, Dentek
- **Zilactin-B**, Blairex Laboratories



StellaLife VEGA Oral Care Gel, StellaLife, Inc.

Natural oral sore relief gel promotes healing and reduces pain and inflammation. **Ideal for perio, chemotherapy, grafting, and implant patients.**

\$35/30-ml Bottle (\$1.17/ml)

See also *Clinicians Report October 2020*

Proven Products: Herpes Simplex 1 (*Cold Sores*)

- **Abreva**, GlaxoSmithKline
- **Carmex Cold Sore**, Carma Labs



Blister Balm Ointment, Blister Balm

Over-the-counter topical analgesic ointment **soothes herpetic lesions and speeds healing.** Helps soothe lips and relieves itchy feeling.

\$19/2.6-gm Treatment Ointment

See also *Clinicians Report June 2020*

Proven Products: Pain Relief, Transient Soft Tissue Irritation

(Avoid NSAIDs in patients being treated with Remdesivir for Covid-19 which may cause liver problems.)

- **Acetaminophen** (e.g., **Tylenol**)
- **Ibuprofen** (e.g., **Advil**)

Proven Products: Temporary Pain Relief, Recurring Soft Tissue Irritation

- **Anbesol Gel (20% benzocaine)**, Pfizer
- **Orajel (20% benzocaine)**, Church & Dwight
- **PerioSpot**, Dental Herb Company



PerioSpot (Proven Product), Dental Herb Company

All-natural soft tissue gel provides protection, soothing, and healing. **Adheres and soothes inflammation** at the site using essential oils with antimicrobial properties.

\$10/0.5 oz Tube (*professional pricing*)

See also *Dental Hygiene Clinicians Report January/February 2020*

Oral Rinses

CR Note: Rinses containing alcohol should be avoided in patients being treated with Remdesivir for Covid-19 which may cause liver damage.

Proven Products:

- **Crest Pro-Health Rinse (cetylpyridinium chloride, OTC)**, Procter & Gamble
- **GUM Porex (CHG, alcohol free, Rx)**, Sunstar Americas
- **LISTERINE (essential oils, alcohol, OTC)**, Johnson & Johnson
- **Peridex (CHG, alcohol, Rx)**, 3M
- **PerioGard (CHG, alcohol, Rx)**, Colgate Professional
- **Tooth and Gums Tonic (essential oils and herbs, online)**, Dental Herb Company



ClōSYS Silver Mouthrinse (OTC), Rowpar

Naturally activated chlorine-dioxide mouthrinse with fluoride helpful for **healing oral sores and reducing halitosis.** Consistent use is helpful.

\$10.49/473-ml Bottle (0.02¢/ml)

See also *Clinicians Report June 2020*

Prophylaxis: Disposable Angles and Cups

Proven Products:

- **Densco Latex-free**, Waterpik
- **ProphyMagic (soft)**, Prophy Magic
- **Ultrapro TX**, Ultradent Products
- **VERA Classic Petite Web and various cups**, Young Dental



Lotus/AntiSplatr Disposable Prophy Angle (Soft), AJK Engineering/Pac-Dent

Reasonably priced specialty prophy angle designed with splatter shield (*wiper-like feature*) that reduces accumulated saliva on the outside of the cup during rotation which **reduces splatter.**

\$69/Box of 100 (69¢/Disposable Prophy Angle)

See also *Clinicians Report November 2020*



Ultrapro Tx Sweep, Ultradent Products

Disposable prophy angle designed to **significantly reduce splatter** by sweeping paste and oral fluids toward tooth, and prevents accumulation of saliva on cup.

\$115/Box of 144 (80¢/Disposable Prophy Angle)

See also *Clinicians Report July 2020*



VERA Splatter Guard Elite, Young Dental

Disposable prophy angle designed to **reduce splatter** with wiper-like feature. Cup has soft webbed inside and ribbed on outside.

\$113/Box of 125 (90¢/Disposable Prophy Angle)

PROSTHODONTICS, FIXED/REMOVABLE

See also *Clinicians Report April 2020*: “**Root Canal, Implant, or Fixed Partial Denture? A Clinician’s Dilemma**”

Cements: Provisional

Clinical Tip: Clinicians may select provisional cements on the basis of reducing sensitivity (*eugenol-based*). **In CR tests**, eugenol-based provisional cement had no significant influence on the shear bond strength of final cements after typical (*two-week*) temporary period and with thorough cleaning of preparation.

Proven Products: Temporary Clear Esthetic

- **ClearTemp LC (veneer only resin)**, Ultradent Products
- **Telio Link (resin, non-eugenol)**, Ivoclar
- **Temp-Bond Clear with Triclosan (resin, non-eugenol)**, Kerr Dental
- **TempoCemID (non-eugenol)**, DMG America

Proven Products: Temporary Resin

- **E.T.C. (resin, non-eugenol)**, Parkell
- **NexTemp (resin, with or without eugenol)**, Premier Dental

Proven Products: Temporary Non-Resin Cement

- **RelyX Temp E and RelyX Temp NE (zinc oxide)**, 3M
- **Temp Advantage (zinc oxide, non-eugenol)**, GC America
- **Temp-Bond NE and Temp-Bond Clear (zinc oxide with or without eugenol)**, Kerr Dental
- **TempoCem (zinc oxide with or without eugenol)**, DMG America
- **UltraTemp Regular Set (polycarboxylate)**, Ultradent Products

Cements, Resin: Adhesive (with Separate Self-Etch Primer)

Proven Products:

- C&B-Metabond Quick!, Parkell
- Multilink Automix Next Generation, Ivoclar Vivadent
- Panavia F 2.0 and V5, Kuraray Noritake Dental
- RelyX Ultimate, 3M



EsteCem II, Tokuyama

Dual-cure resin cement compatible with all dental substrates without extra primers or activators. Provides good handling, **quick cleanup with 3-second tack cure**, and low sensitivity.

\$230/Kit with 5-ml Dual-Barrel Syringe (\$28/ml)

See also Clinicians Report August 2020

Cements, Resin: Esthetic, Veneer

Proven Products:

- Calibra Veneer, Dentsply Sirona
- Insure, Cosmedent
- NX3 Nexus, Kerr Dental
- PermaShade LC, Ultradent Products
- RelyX Veneer, 3M
- Variolink Esthetic, Ivoclar Vivadent

Cements: Resin-Modified Glass Ionomer and Similar

Proven Products:

- Breeze RMGI, Pentron
- Calibra Bio (calcium aluminate and GI), Dentsply Sirona
- Ceramir (calcium aluminate and GI), Doxa Dental
- GC FujiCEM 2, GC Fuji PLUS, and GC FujiCEM Evolve (RMGIs), GC America
- Nexus RMGI, Kerr Dental
- RelyX Luting Plus (RMGI), 3M



GC FujiCEM Evolve (Updated Proven Product), GC America

Successful and popular RMGI cement was improved with stronger and stable bond strength to zirconia. **Easy placement with syringe dispensing and tack cure for easy cleanup.**

\$112.50/9.2-gram Syringe (\$22/ml)

See also Clinicians Report April 2020



MERON PLUS QM, VOVO

RMGI luting cement with auto-mix delivery, tack cure, and low cost. **Cleanup can be relatively quick and easy** with tack cure.

\$83/5-ml Syringe (\$16.80/ml)

See also Clinicians Report March 2020

Cements, Resin: Self-Adhesive (All In One)

Proven Products:

- Calibra Universal, Dentsply Sirona
- G-CEM LinkAce, GC America
- Maxcem Elite and Maxcem Elite Chroma, Kerr Dental
- Panavia SA Cement Plus, Kuraray Noritake Dental
- RelyX Unicem 2, 3M
- SpeedCEM Plus, Ivoclar Vivadent



Panavia SA Cement Universal (Updated Proven Product), Kuraray Noritake Dental

New formula has a patented LCSi silane technology that bonds to porcelain, lithium disilicate (glass ceramic), and composite resin. The original MDP monomer also bonds with zirconia, metal, dentin, and enamel.

\$149/4.6-ml Automix Syringe (\$32.39/ml)

See also Clinicians Report January 2020



ZR-Cem, Premier Dental

Self-adhesive universal resin cement for zirconia restorations. Formulated with MDP for bond to zirconia, and BPO/amine-free initiation system for color stability.

\$136/Standard Pack of 8-gram Syringe and 10 Mix Tips (\$27.20/ml)

Core Build-ups and Accessories

Proven Products: Core Build-ups

- Absolute Dentin, Parkell, \$9.09/ml
- Build-it FR, Pentron, \$9.63/ml
- CompCore AF SyringeMix Stack, Premier Dental, \$13.21/ml
- Core Paste XP, DenMat, \$8.40/ml
- MultiCore Flow, Ivoclar Vivadent, \$10.20/ml



Visalys CemCore, Kettenbach

Convenient core **build-up and resin cement in one material** with dual cure and radiopacity. Available in universal (A2/A3), dark (A4), opaque, bleach, and translucent shades.

\$170/Starter Kit (\$30/ml Core Refill)

See also Clinicians Report October 2020

Proven Products: Accessories

- Gripper Soft Copper Bands, Parkell, 88¢/band

Crowns, Ceramic

See also Clinicians Report September 2020: "ZIRCONIA CROWNS: What dentists and labs need to know in 2020!"

CR Note: Ceramics are now classified by their strength: Class 1 weakest, Class 5 strongest. Zirconia is also described by its percent molar content of yttrium (e.g., 3Y–7Y). Yttrium adds translucency but reduces strength. 3Y zirconia (e.g., original BruxZir) gives best chance of long-term durability. 7Y zirconia (original translucent) experienced breakage and has been phased out. Newest esthetic zirconias are 5Y or a combination of 3Y–6Y with Class 4 strength. Thin Class 4, 5Y zirconia crowns can fracture if cut aggressively (*adjustment before cementation, endo access, etc.*).

Proven Products:

- ArgenZ (zirconia), Argen
- BruxZir Full Strength (3Y Tetragonal zirconia, Class 5), Glidewell
- CZR Press (pressed ceramic), Kuraray Noritake Dental
- IPS e.max CAD and Press (lithium disilicate), Ivoclar Vivadent
- Lava (4Y zirconia, Class 4), 3M



BruxZir Full Strength (Updated Proven Product), Glidewell

BruxZir Original, Y3 Class 5, (previously BruxZir 2009) has demonstrated **excellent durability for 10+ years**, and its laboratory fees have not changed since 2009!

\$99/Crown (lab fabricated)

See also Clinicians Report September 2020

Finishers/Polishers: Ceramic

CR Note: There are a variety of instruments and/or components which can be combined to successfully accomplish finishing. Highest polish is usually accomplished after finishing by using a polishing paste with special applicators (*felt wheels*). Proven products below are a combination of individual instruments and complete kits.

Proven Products:

- All Ceramic Polishers, Cosmedent
- Dialite and Dialite Feather Lite, Brasseler USA
- DiaShine, VH Technologies
- eZr, Garrison
- Jiffy Universal System, Ultradent Products
- Luster (*intraoral*) and Luster for Zirconia, Meisinger
- OpraFine, Ivoclar Vivadent
- Zircon-Brite, DVA (*Dental Ventures of America*)



DiaShine Intra-Oral Single-Use Applications (*Updated Proven Product*), VH Technologies

Diamond polishing paste designed for fast and convenient chairside intraoral final polishing. Packaging **eliminates cross-contamination**.

\$125/25 Single Polisher-Paste Packs (\$5.00 Each)

See also *Clinicians Report January 2020*

Impressions

See *Clinicians Report April 2020*: “What are the Best Impression Techniques for Indirect Restorations?”

Impression Materials: VPS/Polyether

Proven Products:

- Aquasil Ultra+, Dentsply Sirona, 61¢/ml
- EXAFAST NDS (VPS) and EXA'lence (VPES), GC America, 41¢/ml and 69¢/ml
- Flexitime (VPS), Kulzer, 55¢/ml
- Impregum Super Quick (Polyether) and Imprint 4 (VPS), 3M, 55¢/ml and 66¢/ml
- Reflection (VPS), Patterson, 37¢/ml
- Splash! Max (VPS), Denmat, 42¢/ml
- Take 1 Hydro (VPS), Kerr Dental, 60¢/ml
- Thermo Clone VPS, Ultradent Products, 43¢/ml
- Vaccu-sil Impression Material, HO Dental Company, 24¢/ml
- Virtual XD (VPS), Ivoclar Vivadent, 67¢/ml



Aquasil Ultra+ (*Updated Proven Product*), Dentsply Sirona

VPS impression material with **highest overall rating in recent CR comparison**. This brand has desirable hydrophilicity and high tear strength, but premium price.

\$122/Four 50-ml Cartridges (61¢/ml)

See also *Clinicians Report April 2020*



Impregum Super Quick (*Updated Proven Product*), 3M

Polyether impression material that **combines precision and speed with a shorter set time** (45 seconds working time and two-minute set time), and improved flavor (*less bitter*).

\$112/Four 50-ml Cartridges (~56¢/ml)

See also *Clinicians Report April 2020*



Imprint 4 (*Updated Proven Product*), 3M

Well received VPS impression material with high popularity. **Accuracy is well established**, but premium price.

\$132/Four 50-ml cartridges (~66¢/ml)

See also *Clinicians Report April 2020*



Take 1 Hydro (*Updated Proven Product*), Kerr Dental

VPS impression material with improved flexibility, **improved flow, and very good hydrophilicity**.

\$60/Intro Kit with Two 50-ml cartridges (60¢/ml)

See also *Clinicians Report September 2020*



XANTASIL, Kulzer

VPS alternative for alginate is desirable when immediate pour is inconvenient or re-pour is expected. **Fast set and produces higher accuracy impression than alginate**.

\$67.80/Six 50-ml Cartridges (23¢/ml)

See also *Clinicians Report April 2020*

Impression Trays and Accessories

CR Note: Double-arch (*e.g., Triple Tray*) impressions are the most commonly used technique for one or two crowns. The trays should have no sides or flexible sides with a thin non-absorbent mesh between the arches to reduce distortion and a thin connector between the two sides. Full arch impressions (*custom tray preferred*) are recommended for three or more units or when the occlusion is challenged (*grinding bruxism*). Triad Trutrayer (*custom tray*) is discontinued; other products under investigation are Megatray (*Henry Schein*) and Fasttray (*Bosworth*).

Proven Products:

- Directed Flow Tray (*stock*), 3M
- Quad-Tray Xtreme (*dual-arch*), Clinician's Choice
- Triad Trutrayer (*custom tray material*), Dentsply Sirona (*discontinued*)
- Triple-Tray (*sideless dual-arch*) and Triple-Tray Anterior (*dual-arch, sided*), Premier Dental



Directed Flow Tray (*Proven Product*), 3M

Disposable stock tray **with material and form that holds impression material securely** in tray.

\$25/10 Trays (\$2.45/Tray)

See also *Clinicians Report April 2020*



Quad-Tray Xtreme (*Proven Product*), Clinician's Choice

This **dual-arch tray concept is well proven** for one or two units and saves money by reducing amount of impression material needed when compared to full arch trays.

\$106/Box of 50 (\$2.12 Each)

See also *Clinicians Report April 2020*

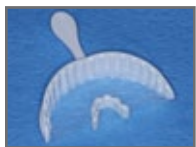


Triple Tray (Proven Product), Premier Dental

This sideless dual-arch tray concept is well proven for one or two units. **Saves money by reducing amount of impression material** needed when compared to full arch trays and saves time.

\$55/Box of 48 (\$1.14/Tray)

See also Clinicians Report April 2020



Triple Tray Anterior (Proven Product), Premier Dental

The sided anterior **dual-arch tray concept is excellent** for one or two units and saves money by reducing amount of impression material needed when compared to full arch trays.

\$55/Box of 35 (\$1.56/Tray)

See also Clinicians Report April 2020

Pins

Proven Products:

- **Filpin (pure titanium)**, Filhol Dental

Posts

Proven Products:

- **C-I White**, Parkell
- **Cure-Thru Integra Post**, Premier Dental
- **D.T. Light-Post**, Benco Dental
- **EndoSequence Fiber Post**, Brasseler USA
- **FibreKleer and FibreKor**, Pentron
- **Macro-Lock Oval**, Clinician's Choice
- **ParaPost Fiber White**, Coltene
- **RelyX Fiber Post 3D**, 3M

Primers and Cleaners, Indirect Restorations

Proven Products: Ceramic Cleaner

- **Ivoclean**, Ivoclar Vivadent
- **ZirClean**, Bisco Dental



KATANA Cleaner, Kuraray Noritake Dental

Unique cleaner with active ingredients of MDP Salt (*surfactant*) for use **intraorally** to clean tooth surfaces prior to bonding or **extraorally** to clean restorations following try-in and prior to cementation. **Quick application and rinse.**

\$35/4 ml Bottle (\$8.75/ml)

See also Clinicians Report August 2020

Proven Products: MDP and Silane combined (for glass ceramic, metal, or zirconia)

- **CLEARFIL CERAMIC PRIMER PLUS**, Kuraray Noritake Dental
- **GC CERAMIC PRIMER II**, GC America
- **Monobond Plus**, Ivoclar Vivadent



Premier Universal Primer, Premier Dental

Primer for zirconia, glass ceramic, metal, and composite is **quick and easy to use**. Chemistry is dual coupling agents, 10-MDP, and silane methacrylate.

\$90/5-ml Dropper Bottle (\$18/ml)

See also Clinicians Report October 2020



Zirconia Prime, DenMat

Primer for zirconia, glass ceramic, metal, and composite is quick and easy to use. CR in-vitro test results showed bond to zirconia **similar to other successful primers.**

\$95/5-ml Dropper Bottle (\$19/ml)

See also Clinicians Report April 2020

Proven Products: MDP (for metal or zirconia)

- **Z-Prime Plus**, Bisco Dental

Proven Products: Silane (for glass ceramic)

- **Bis-Silane and Porcelain Primer**, Bisco Dental
- **Calibra Silane**, Dentsply Sirona
- **Silane**, Ultradent Products
- **Vitique Silane**, DMG America

Provisional Materials

See also Clinicians Report February 2020: "What Are "Semi-Permanent" Provisional Restorations?"

Proven Products: Acrylic Resins

- **Jet Set-4 (PMMA)**, Lang Dental
- **SNAP (PEMA)**, Parkell
- **Trim Plus (PMMA)**, Keystone Industries

Proven Products: Bis-acryl Resins

- **Inspire**, Clinician's Choice
- **Integrity Multi-Cure**, Dentsply Sirona
- **LuxaCrown**, DMG America
- **Protemp Plus**, 3M
- **Pro-V C&B**, Bisco Dental
- **Structur 3**, VOCO



Inspire (Updated Proven Product), Clinician's Choice

Self curing, auto-mix syringe dispensed, bis-acryl provisional with **highest strength** of provisional materials tested, but low radiopacity.

\$189.30/71-gram Syringe (\$4.40/ml)

See also Clinicians Report February 2020



LuxaCrown (Updated Proven Product), DMG America

Self-curing, auto-mix syringe dispensed, composite/bis-acryl "semi-permanent" crown/prostheses material with **overall best combination of characteristics**. Rated to last 5 years.

\$374/One 50-ml Cartridge; \$199/Dispenser (\$7.50/ml)

See also Clinicians Report February 2020

Scanners, Intraoral (Digital Impression)

See also Clinicians Report October 2020: "Improving Impressions and Tooth Preps with Intraoral Scanning"

Proven Products:

- **Various Models from the following companies:**
 - 3Shape
 - Align Technologies
 - Carestream Dental
 - Dentsply Sirona
 - Planmeca



CEREC Primescan (Updated Proven Product), Dentsply Sirona

Intraoral scanner with **improved speed and ease of scanning**, greater depth of field, internally heated anti-fog handpiece, and large touchscreen interface.

\$44,995

See also *Clinicians Report* October 2020



Emerald S (Updated Proven Product), Planmeca

Intraoral scanner with **improved speed and ease of scanning**, shade-assist technology, greater detail, and updated software.

\$32,000

See also *Clinicians Report* October 2020



WOW, Denterprise International

Intraoral scanner with **slim and lightweight handpiece** based on stereo photogrammetry technology (*no mirror caps*). **Lower cost**, but slightly slower scanning.

\$17,995

See also *Clinicians Report* October 2020

Soft Tissue Management and Hemostatic Cord

See also *Clinicians Report* March 2020: “Overcoming the Challenges Associated with Styptics”

Clinical Tip: The two-cord technique continues to provide the

most consistent impressions. Retraction pastes can be an effective adjunct to the two-cord technique, replacing the second cord to provide hemostasis while the first cord provides the majority of the gingival retraction. Pastes are adequate used alone in some cases, but provide less mechanical retraction.

Proven Products: Cords

- **GingiBRAID+ ShortCut**, Kerr Dental
- **Knit-Pak**, Premier Dental
- **ROEKO Stay-put**, Coltene
- **UltraPak**, Ultradent Products
- **Z-Twist Weave Braided Cord**, Gingi-Pak



UltraPak (Proven Product), Ultradent Products

100% cotton; knitted to form long, interlocking chains to produce gentle, continuous, outward force for tissue displacement.

\$15.49/Dispensing Bottle with 8-feet of Cord (16¢/inch)

See also *Clinicians Report* April 2020

Proven Products: Hemostasis and Styptics

- **Astringent, ViscoStat, and ViscoStat Clear**, Ultradent Products
- **Hemodent**, Premier



Hemoban Gel, Dentsply Sirona

Easy to apply and rinse hemostatic gel (25% aluminum chloride) **does not cause subsequent staining** of esthetic cases.

\$58/30-ml Master Syringe and 20 Delivery Syringes and Tips (\$1.93/ml)

See also *Clinicians Report* March 2020



ViscoStat Clear (Proven Product), Ultradent Products

Clear, **non-staining**, hemostatic gel (25% aluminum chloride) reduces or eliminates bleeding of soft tissue before impressions.

\$62/IndiSpense Kit (Bulk, 7 Syringes, Tips)

See also *Clinicians Report* March 2020 and April 2020

Proven Products: Pastes

- **3M Astringent Retraction Paste, 3M**
- **Dryz and Dryz blu**, Parkell
- **Expasyl**, ACTEON North America
- **GingiTrac**, Centrix
- **Traxodent**, Premier Dental

PUBLIC HEALTH

Dental Delivery Units: Portable

Proven Products: Compressed Air Units

- **Explorer Portable Unit**, Safari Dental
- **PAC I Field Unit**, Adec
- **Portable Dental Delivery System ADU-04ST**, Aseptico

Proven Products: Portable Chairs and Stools

- **Portable Operator Stool**, DNTLworks
- **Portable Patient Chair**, Safari Dental

Proven Products: Self-Contained Delivery Units

- **Express Portable Unit ADU-17**, Aseptico
- **ProQuest I**, DNTLworks

RADIOLOGY: ORAL AND MAXILLOFACIAL

See also *Clinicians Report* February 2020: “Lead Aprons for Patient Safety: Are They Required?”

CR Note: Use of lead aprons is no longer recommended for all patients. See thyroid collars on page 13.

Cone Beam (CBCT)

Proven Products:

- **Various Models from the following companies:**
 - Carestream Dental
 - Instrumentarium
 - Gendex (KaVo Imaging)
 - Planmeca
 - Imaging Sciences Int'l
 - Vatech America

Film Conversion to Digital

Proven Products:

- **QuickShot Instant Film Digitizer**, X-Ray Support

Handheld Radiography Units

Proven Products:

- **KaVo NOMAD Pro 2**, KaVo Imaging

Intraoral Digital Sensors

See also *Clinicians Report* November 2020: “Digital Radiography: Addressing the Challenges”

CR Note: Minimize challenges and optimize image quality with CMOS sensors by learning anatomy; aligning sensor and x-ray head to landmarks; and using smaller sensors or phosphor plates when necessary. Overuse of enhancement tools can create appearance of sharpness, but reduce detail.

Proven Products:

- **Various Models from the following companies:**
 - Air Techniques
 - Dentsply Sirona
 - Carestream
 - KaVo Imaging



Clio, Sota Imaging

CMOS sensor with **rounded corners and slim design** for access and patient comfort. Available in sizes 1 and 2.

\$5,995/Sensor (Size 2)

See also Clinicians Report November 2020



DEXIS Titanium (Updated Proven Product), KaVo Imaging

CMOS sensor with **rounded corners and smaller size** for access and patient comfort. Updated with gesture motion control for computer touch-free radiography series.

\$10,995/Sensor

See also Clinicians Report November 2020



Dream Sensor, DentiMax

CMOS sensor with **rounded corners and slim design** for access and patient comfort. Available in sizes 1 and 2.

\$6,999/Sensor (Size 2)

See also Clinicians Report November 2020



KaVo IXS (Updated Proven Product), KaVo Imaging

CMOS sensor with **rounded corners** for access and patient comfort. Available in sizes 1 and 2. Replaces popular Gendex sensors.

\$9,995/Sensor (Size 2)

See also Clinicians Report November 2020



RVG 6200 (Updated Proven Product), Carestream Dental

CMOS sensor with **large imaging area** and rounded edges. Available in sizes 1 and 2.

\$6,000/Sensor (Size 2)

See also Clinicians Report November 2020



ScanX (Updated Proven Product), Air Techniques

Phosphor plates with large image area and size and feel similar to film for access and patient comfort. Available in sizes 0, 1, 2, 3, and 4. Scanner reads plates to create digital radiograph (e.g., Intraoral View Scanner, \$14,995).

\$51–\$155/Plate (depending on size)

See also Clinicians Report November 2020



Schick 33 (Updated Proven Product), Dentsply Sirona

CMOS sensor with **large imaging area** and rounded edges. Available in sizes 0, 1, and 2.

\$7,995/Sensor (Size 2)

See also Clinicians Report November 2020



Wave Sensor, Vatech

CMOS sensor with **slight pliability, rounded corners, and unique soft silicone coating** for access and patient comfort. Available in sizes 1.5 and 2.

\$7,999/Sensor (Size 1.5)

See also Clinicians Report November 2020

Thyroid Collars

CR Note: Thyroid collars are generally recommended, **especially for younger patients**, in order to minimize radiation exposure whenever possible.



BLOXR XPF Thyroid Collars, BloXR Corporation

Lead-free, lightweight thyroid collar is as effective as 0.5 mm lead collars. Lightweight, comfortable, and machine washable.

\$80/Collar

See also Clinicians Report February 2020

RESTORATIVE/OPERATIVE/PEDIATRIC

Adhesives

See also Clinicians Report October 2020: “‘Universal’ Bonding Adhesives: CR Puts Them to the Test”

Proven Products:

- Adhese Universal, Ivoclar Vivadent
- Brush&Bond Universal, Parkell
- CLEARFIL SE BOND 2 and CLEARFIL Universal Bond Quick, Kuraray Noritake Dental
- G-Premio BOND, GC America
- ONE COAT 7 UNIVERSAL, Coltene
- OptiBond eXTRa Universal and OptiBond Solo Plus, Kerr Dental
- Peak Universal Bond, Ultradent Products
- Prime&Bond elect, Dentsply Sirona
- Scotchbond Universal, 3M

Bases/Liners

See Pulp Capping/Pulpotomy (pages 14–15)

Cements

See Prosthodontics, Fixed/Removable (page 8–9)

Curing Lights: Resin, LED

Proven Products:

- Bluephase G4, Ivoclar Vivadent
- Elipar DeepCure-S and Paradigm DeepCure LED, 3M
- FUSION Grand, DentLight
- The Light, GC America
- VALO Grand, Ultradent Products

Desensitizers: Preparation Disinfection

See also Clinicians Report October 2020: “How To Predictably Reduce Post-op Tooth Sensitivity and Caries” and November 2020: “Making Sense of Sensitivity”

Proven Products: Glutaraldehyde 5%/HEMA 35%

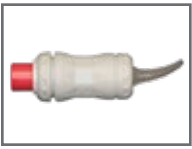
- G5, Clinician’s Choice
- GLUMA Desensitizer, Kulzer
- Glu/Sense, Centrix
- MicroPrime G, Zest Dental Solutions

Glass Ionomer Restoratives

See also Clinicians Report January 2020: “First Look: The Latest Glass Ionomer Restoratives” and July 2020: “A New Look at an Old Idea”

Proven Products:

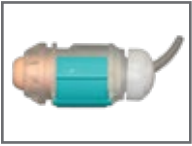
- EQUIA Forte, EQUIA Forte HT, and GC Fuji IX GP EXTRA, GC America
- IonoStar Plus, VOCO
- Ketac Universal Aplicap, 3M
- Riva Self Cure HV, SDI


EQUIA Forte HT (Updated Proven Product), GC America

Newest version of EQUIA (*glass hybrid*) can be **sculpted more easily** upon dispensing. Improved translucency, high radiopacity, and F release.

\$7.30/0.14ml

See also Clinicians Report January 2020


Ketac Universal Aplicap (Updated Proven Product), 3M

Newest version of Ketac can be **sculpted more easily** upon dispensing. High radiopacity, F release, and **high compressive strength**.

\$5.80/0.13ml

See also Clinicians Report January 2020

Handpieces, Non-Surgical

See also Clinicians Report January 2020: “Budget-Level Air Handpieces: Are They a Bargain?”

Proven Products: Electric

- KaVo COMFORTdrive, KaVo ELECTROtorque, and KaVo ELECTROmatic Premium, KaVo Handpieces
- Midwest E Electric Handpiece System, Dentsply Sirona
- OPTIMA MCX, Bien-Air USA
- Ti-Max, and NLZ E Electric Micromotor System, NSK


OPTIMA MCX Set (Updated Proven Product), Bien-Air USA

Electric handpiece system with **small, lightweight motor and simple controls**. Easy to set up, adjust, use, and clean.

\$3,196/Entry Level System Bundle (*System with 3 Handpieces*)

See also Clinicians Report January 2020

Proven Products: High-Speed Air

- 430SWL Torque LubeFree, DentalEZ
- 557 ProStyle SF Lite SLC and LEGACY 5, Lares Research
- MASTERtorque, KaVo Handpieces
- Midwest Stylus Plus, Dentsply Sirona
- Ti-Max Z800L, NSK
- Tornado, Bien-Air
- W&H Synea 400 Series, A-dec


Maxso M200E, Beyes Dental

Low-cost, budget-level air handpiece with **adequate power (torque)** and excellent–good durability and overall clinical rating.

\$116/Handpiece

See also Clinicians Report January 2020


XLR8 Plus, Benco Dental

Light-weight, budget-level air handpiece with adequate power (*torque*), **three water spray ports**, and excellent–good durability and overall clinical rating.

\$325/Handpiece

See also Clinicians Report January 2020

Moisture Control/Isolation/Rubber Dam

Effective Moisture Control Concepts:

- Dentapops, Primotec
- DryShield, DryShield
- DryTips, Microbrush International
- Isolite, Isodry, and Isovac, Zyris
- Mr. Thirsty One-Step, Zirc
- NeoDrys, Microcopy
- OptraGate (*small, regular, and junior*), Ivoclar Vivadent


Perfect Cheek Retractors, Dental Creations

Hands-free, self retracting, one piece, clear plastic cheek retractors for many procedures. Autoclavable. Design allows **view of all oral tissues**.

\$16.50/Pack of 2 Retractors (*Adult or Child*)

See also Clinicians Report February 2020


SoftDry (Parotid PAD), Pac-Dent

Moisture control pad with soft edges absorbs well while protecting cheek. Has soft silicone backside to **reduce sticking to oral mucosa**.

\$17/50/Pack of 50 (*35¢/Pad*)

See also Clinicians Report November 2020

Proven Products: Rubber Dam

- HYGENIC Elasti-Dam and HYGENIC Framed Non-latex Flexi Dam, Coltene
- Smart Dam (*Latex-Free*), Cranberry

Pulp Capping/Pulpotomy

See also Clinicians Report August 2020: “Pulp Capping: The Viable Alternative to Root Canal Treatment”

CR Note: RMGI liners are most used, but have not yet been submitted to FDA for 510K clearance on pulp capping. MTA is highly suitable for pulp capping. It has been previously criticized for its long setting time, poor handling properties, and high cost. Newer MTA materials have improved these challenges.

Proven Products:

- BC RRM Putty (*calcium silicate*), Brasseler USA
- Calcium Hydroxide, Various Companies
- Endo-Eze MTAFlow, Ultradent Products
- GC Fuji LINING LC (*RMGI*), GC America
- NeoMTA 2, Avalon Biomed (*NuSmile*)
- TheraCal PT and TheraCal LC (*calcium silicate*), Bisco Dental
- Vitrebond Plus (*RMGI*), 3M


Endo-Eze MTAFlow White (Updated Proven Product), Ultradent Products

Flowable and radiopaque MTA cement for tooth and pulp treatments has **excellent delivery and initial set**. Wash out resistant.

\$135/Kit (~\$8.59/Use)

See also Clinicians Report August 2020



NeoMTA 2 (Updated Proven Product), Avalon Biomed

Bioactive, bioceramic, tricalcium silicate-based cement with color stability and **wash-out resistance**. Easier powder/gel mix and brighter white color.

\$139/Kit (~\$5.60/Use)

See also *Clinicians Report August 2020*



TheraCal PT (Updated Proven Product), Bisco Dental

Pulpotomy material with calcium silicate, dual cure, and initial high acceptance. Easy placement, good adhesion to dentin, and **early observations indicate non-irritation pulpal protection**.

\$89/4-gram Syringe (\$40.45/ml)

See also *Clinicians Report February 2020 and August 2020*

Resin-Based Composite Restoratives

Proven Products: Dual Cure

- Bulk EZ, Zest Dental Solutions
- Fill-Up!, Coltene
- HyperFIL, Parkell

Proven Products: Light Cure

- CLEARFIL MAJESTY, Kuraray Noritake Dental
- ESTELITE sigma QUICK, Tokuyama Dental America
- Filtek Supreme Ultra and Filtek Universal Restorative, 3M
- G-aenial Universal Injectable, GC America
- Harmonize, Kerr Dental
- Heliomolar and Tetric EvoCeram, Ivoclar Vivadent
- Mosaic, Ultradent Products
- OMNICHROMA, Tokuyama Dental America
- Renamel NANO Plus, Cosmedent
- TPH Spectra ST, Dentsply Sirona
- Venus Pearl, Kulzer

Resin-Based Composite Restoratives: Flowables

Proven Products:

- BEAUTIFIL Flow Plus, Shofu
- ESTELITE UNIVERSAL FLOW, Tokuyama Dental America
- Filtek Supreme Ultra Flowable, 3M
- G-aenial Universal Flo, GC America
- SDR flow+, Dentsply Sirona
- Tetric EvoFlow, Ivoclar Vivadent



Filtek Supreme Flowable Restorative, 3M

Popular nano-composite in NEW syringe dispensing with virtually no bubbles, easy-to-bend cannula, ergonomic design, and shades A2, A3, A4, B1, B2, C2, D2, OA3, W, and XW.

\$113/Two 2-gm Syringes (\$42.43/ml)



FIT SA, Shofu Dental Corporation

Successful giomer filler technology is now available in a **well-received flowable restorative**. Giomer technology has been well received internationally and has high survival rates in clinical studies.

\$38.70/2.2-gm Syringe (\$32.25/ml)

See also *Clinicians Report November 2020*

Resin-Modified Glass Ionomer Restoratives

Proven Products:

- GC Fuji II LC, GC Fuji Filling LC, and Fuji Automix LC, GC America
- Ketac Nano LC, 3M
- Riva Light Cure HV, SDI

SLEEP MEDICINE, DENTAL

Appliances and Devices

Proven Products:

- dreamTAP, Airway Management
- EMA (Elastic Mandibular Advancement), Various Labs
- Silent Nite, Various Labs
- T3 Apnea Monitor, DDME (manufactured by Nox Medical)
- TAP (Thornton Adjustable Positioner), Various Labs

SURGERY, ORAL AND MAXILLOFACIAL

See also *Clinicians Report March 2020: "Biopsy: A Cut Above"*

Bone Grafting Materials and Membranes

Proven Products:

- Bio-Oss, Geistlich
- DynaBlast Paste, Keystone Dental
- Foundation, Morita
- Grafton DBM, BioHorizons
- L-PRF IntraSpin System, Intra-Lock
- LifeNet OraGRAFT Bone, Salvin Dental
- OsteoGen Plug, Implants LTD
- Puros, Zimmer Biomet



OsteoGen Strip, Implants LTD

Easy-to-use resorbable grafting strip in two sizes. Combines bioactive resorbable calcium apatite with a bovine Achilles tendon collagen matrix. **Same material as the proven OsteoGen Plug.**

\$99/Box of 2 Small Strips (12mm×20mm×3mm)
\$199/Box of 2 Large Strips (20mm×40mm×3mm)
(\$49.50/Small; \$100/Large)

See also *Clinicians Report October 2020*



Zmatrix (porcine peritoneum collagen membranes), Osteogenics Biomedical

Membrane derived from porcine peritoneum collagen is **substantial and pliable for easy handling, shaping, and placement.**

\$110/Membrane (15mm×20mm)
\$150/Membrane (20mm×30mm)
\$200/Membrane (30mm×40mm)

See also *Clinicians Report January 2020*

Instruments

Proven Products: Elevators, Luxators, Proximators, and Forceps

- Various
 - Directa Dental
 - Karl Schumacher
 - Hu-Friedy Mfg Co.
 - Salvin Dental Specialties



Kurtzman Finger-Rest Periostomes, Zoll Dental

Periostomes have been successful for achieving less traumatic extractions. This design has a **convenient finger rest for stability and safer force application.**

\$80.40/Single-ended

See also *Clinicians Report April 2020*

Products listed in this Buying Guide were identified by CR science evaluations and CR Evaluator clinical use *during 2020.*

For many other excellent products not mentioned, please review previous *CR Buying Guides and Clinicians Reports* at www.CliniciansReport.org.

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