

THE DENTAL ADVISOR™

Improving Patient Care Through Research & Education

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Technology Advances in Small Equipment

Advances in technology routinely affect dental practice. New oral cancer screening devices allow dentists to supplement traditional screening techniques. Electric handpieces are gradually replacing air-turbine handpieces. LED curing lights are now cordless and have replaced the traditional halogen curing lights. Advances in lights used to accelerate tooth whitening are occurring.

This issue of THE DENTAL ADVISOR provides updates on oral cancer screening devices, handpieces, LED curing lights, and tooth whitening lights.

www.dentaladvisor.com

RATINGS:

Excellent + + + + +
Very Good + + + +
Good + + +

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PUBLISHER

Dental Consultants, Inc.

Please send inquiries and address changes to:

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

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From the Desk of Dr. Bunek, Editor-in-Chief



It is quite obvious when we look at dentistry as a whole to recognize the large technological advances that have occurred. Areas such as CAD/CAM dentistry, dental implants, and digital radiographs have notably altered the landscape of dentistry in a broad and permanent stroke. What about the more subtle advancements in dental technology? Technological improvements in small equipment, for example, often change the way we practice dentistry on a daily basis and in a very tangible way. Looking at my operatory, I focus on that most familiar piece of equipment, the dental handpiece. This is perhaps the most used member of my armamentarium and advances in this area of dentistry have greatly affected the efficiency of the practice, but we are often bombarded with marketing campaigns on a much larger scale that draw our attention to bigger ticket items. In this month's issue we will examine some technological improvements seen in small everyday equipment such as handpieces, LED curing lights, whitening lights, and oral cancer screening devices. As always, I welcome your comments and suggestions; you can reach me at drbunek@dentaladvisor.com.

Oral Cancer Awareness

According to the Oral Cancer Foundation (<http://oralcancerfoundation.org/>), oral cancer is the 6th most common form of cancer in the United States, and the number of people affected is increasing at an alarming rate. Oral cancer screening devices (VELscope, LED Dental Ltd.; Identafi, DentalEZ; Microlux DL, AdDent) are used many times in conjunction with traditional intra-oral and extra-oral examinations to assist in identifying abnormalities, such as pre-cancerous and cancerous lesions, in the oral tissue. Newest to the market, **OralID/OralID**, was recently rated highly among THE DENTAL ADVISOR consultants. We had the opportunity to interview Robert J. Whitman, CEO of OralID, to learn more about their device.

What makes Oral ID unique?

The technology is virtually the same as other oral cancer screening devices on the market; however, we offer ease of use, implementation, and affordability. The device itself is really straightforward and we have mandated live team training by in-house clinicians for the life of the **OralID** unit. We offer new team members training as well. The economic advantage is two-fold – low up front cost and no disposables. We know that typically a \$4000 piece of dental equipment is going to offer a return on investment quickly. A CAD/CAM system or an implant system will pay for itself. Since most clinicians include an oral cancer screening as part of the periodic and initial exams, we wanted to keep the price and simplicity of our product low enough so dentists would purchase and implement it in practice.

Why now?

If you are not using something, the question really is why not? Unfortunately, due to lack of awareness, oral cancer rates are rising. Oral cancer is the only cancer that is increasing every year. Predictions estimate cancer to be the number one cause of death by 2030. HPV also continues to rise. Every other industry is being proactive. Dentistry is remaining reactive. In the 25 years my partner and I have been in the industry, there have only been three oral cancer screening devices on the market.

What is the advantage of Cytid Cytology Kit over a traditional biopsy or brush biopsy?

The biopsy is the gold standard, but we can't biopsy everything that looks suspicious. **Cytid Cytology Kit/OralID** eliminates the need for making slides, and you don't have to draw blood. **Cytid Cytology Kit** is for the cases where you are 75% sure a lesion is lichen planus or a cheek bite, but you are 25% unsure. If you get an abnormal result, we will personally guide you through the process. Once we receive the kit, the turn around time for results is 3-5 days.

OralID

+++++

Oral ID

www.oralid.com



Product Description: **OralID** is a portable, hand-held light for use as an adjunctive device for oral mucosal screening of abnormalities, such as oral cancer and dysplasia. **OralID** emits a blue light (435-460 nm). Green fluorescence indicates normal, healthy tissue and abnormal tissue will appear dark. **Cytid** is an oral cytology kit that provides everything necessary to collect and send a sample to a laboratory for testing. **OralID** was evaluated by 36 consultants in 1622 uses and received a 96% clinical rating.

Advances in Handpieces

Dentistry has come a long way from hand cranks and gears or belt-driven models. Most recently there has been a growing number of dentists transitioning to electric handpieces, favored for their lower volume, high and consistent torque, versatility through multiple attachments, high concentricity, and low vibration. The following handpieces have been highly rated and acknowledged by the consultants of THE DENTAL ADVISOR for their significant technological advancements.

Ti-Max Z95L

NSK recently introduced the **Ti-Max Z95L**, a 1:5 increasing contra angle that fits all e-type electric motors. This high-speed attachment was designed to increase access and visibility by reducing head and neck size, while increasing durability with the implementation of carbon gear coating. The titanium shell cuts down on the weight of the handpiece and offers improved wear resistance while the shape of the shaft improves balance and decreases hand fatigue. Despite its small head size, the **Z95L** maintains a 4-port water spray, offering optimal cooling and the gear shape provides low noise and little vibration.

Ti-Max Z95L

+++++
NSK
(888) 675-1675
www.nskdental.us



Product Description: **Ti-Max Z95L** is a high-speed (1:5 increasing) contra-angle attachment for e-type electric motors. The **Ti-Max Z** series of attachments are designed to offer improved visibility through the reduction of head and neck size. While the **Ti-Max Z95L** has a lightweight titanium body, its gear shape and carbon coating provide durability and minimal noise output. **Ti-Max Z95L** was evaluated by 12 consultants during a three-month period and received a 98% clinical rating.

MX2 Micro-Series

Bien Air has also answered many of the concerns associated with electric motors and handpiece systems with the introduction of their **MX2 Micro-Series**. The **MX2 Micromotor** is an e-type, brushless, motor with adjustable LED light. At 30% shorter and 23% lighter than a typical electric motor, this model when combined with one of the micro series contra angles is approximately the size of a traditional air-driven handpiece. With the increasing number of female dentists graduating each year, the size and weight issue of electric motors needs to be addressed. The combination of short motor and short attachments has also moved the balance point forward, resulting in decreased hand fatigue. The motor itself has 40 programmable settings for virtually unlimited customization.

MX2 Micro-Series

+++++
Bien-Air USA, Inc
(800) 433-BIEN,
(949) 477-6050
www.bienair.com



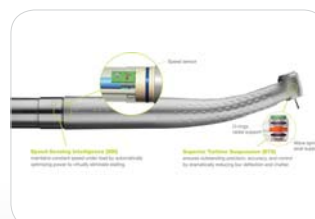
Product Description: **MX2 Micro-Series** is an electric handpiece system that is short and light. The motor connects to the **Optima MX2** control unit that features adjustable intensity LED light, a speed range from 100-40,000 rpm, and a touchpad console. The unit offers an auto-reverse setting, ideal for endodontic applications. This system will connect to any existing dental unit and uses an existing foot control to regulate motor speed. **MX2 Micro-Series** was evaluated by five consultants in 1200 uses and received a 96% clinical rating.

MIDWEST® Stylus™ ATC

As other manufacturers have addressed some of the disadvantages of electric handpiece systems, DENTSPLY provides a handpiece that bridges some of the gaps between electric and traditional air driven. The **Midwest Stylus ATC** has been around for several years, but the technology is noteworthy. It is a high-speed, air-driven handpiece that is electrically controlled. The speed-sensing intelligence (SSI) technology automatically optimizes power to virtually eliminate stalling without the need for manually changing settings. It has the ability to adjust the speed based on the load, minimizing wear on the bearings. This technology provides the dentist with the speed, size, and weight of an air-driven handpiece and the power (when needed) of an electric motor.

MIDWEST® Stylus™ ATC

+++++
DENTSPLY Professional
(800) 989-8825
www.dentsply.com,
www.StylusATC.com



Product Description: **MIDWEST® Stylus™ ATC** is a high-speed, air-driven handpiece featuring **Speed-Sensing Intelligence**, which automatically optimizes power and adjusts speed when the bur is not under load. It also features **Superior Turbine Suspension**, which allows the handpiece to operate at speeds of 330,000 RPM without noticeable bur deflection and chattering, promoting smooth and precise control for margin refinement and restorative procedures. **MIDWEST Stylus ATC** was evaluated by seven editors in 437 uses and received a 96% clinical rating.

Advances in In-office Whitening

We have watched the trend in whitening move from take-home delivery tray systems, to in-office, professional whitening. A major benefit of in-office whitening is that a significant color change can be accomplished in a short amount of time due to the high concentration of hydrogen peroxide that is used (ranging from 25%-40%).

One of the pitfalls of the in-office systems has consistently been an increase in tooth sensitivity, both throughout the procedure and post-operatively. The latest addition to the **Zoom** family, **Zoom White Speed** (Philips) addresses this issue with an adjustable intensity of the light unit. The **White Speed** offers a high, medium, and low intensity option. In addition to the variable light intensity, the **White Speed** is the first in the **Zoom** family to use a blue LED light. The theory behind the change to blue light is that the mostly yellow stain molecules absorb the blue light, which in turn makes the carbon bonds in the stain easier to break than with hydrogen peroxide alone. The LED technology offers improved energy efficiency providing 50,000 hours of use with a decrease in energy consumption of 40% over previous **Zoom** lights.

Philips Zoom

Philips Oral Healthcare
(800) 422-9448
philipsoralhealthcare.com



Product Description: When it comes to lasting results and efficacy, **Philips Zoom** in-office and take-home whitening treatments outshine the competition. Clinically proven to whiten teeth up to eight shades in 45 minutes*, **Philips WhiteSpeed** in-office whitening delivered 55% better results than *Opalescence Boost* in a recent study. Available in a variety of formulas to suit the needs of every patient, **Philips Zoom DayWhite** and *NiteWhite* provide a whiter, healthier smile in as little as one week. No wonder **Zoom** is the #1 patient-requested professional whitening system**. *Excluding prep time **In the U.S.

Advances in LED Curing Lights

Traditionally, LED curing lights have been battery operated. Utilizing rechargeable lithium ion batteries, a typical LED curing light will provide approximately one hour of cure time or 360 ten-second cures. The problem is, once the curing light has lost its charge, it frequently takes up to two hours to recharge. This long charge time limits the ability of a clinician to maximize the portability of the light.

The **Demi Ultra LED/Kavo Kerr Group** curing light has replaced the traditional lithium battery power source with an ultra-capacitor that re-energizes to full power within 40 seconds. This new technology allows the **Demi Ultra** to deliver 25, 10-second cures after a charge of 40 seconds, assurance you simply cannot get elsewhere and a power source that will last up to 10 years, without sacrificing quick cure times or depth of cure. Additionally, the LEDs were relocated from the handpiece, where the light previously traveled through fiber optic light guides, to the actual tip allowing for a decrease in energy expenditure of one half without increasing thermal output.

Many curing light design factors play a major role in the production of the proper curing of light cured restorative materials and are being attended to with many of the more recent curing light products. Simply put, those variables which contribute to yielding the highest delivery of energy to the restorative material will yield a more thoroughly cured restoration. For example, the closer the light beam is to a cylinder, the less divergent it is after it leaves the tip of the instrument. Less divergence means less loss of light intensity with respect to distance from the subject restoration and implies a more efficient use of the electrical energy used to produce the light. The beam divergence of the **Demi Ultra** and **Demi Plus** is among the lowest in the industry at approximately 18 degrees. Some popular brands produce a beam with divergence as high as 36 degrees. The docking station includes a built-in radiometer that notifies the user if the tip needs to be cleaned before curing. Safety and simplicity of operation are other design factors which indirectly affect the production of successfully cured restorations. High tip temperature associated with some high intensity curing lights, can be high enough to cause significant discomfort to the patient if and when soft tissues are inadvertently touched with the tip. Measurements of the tip temperature of several curing lights demonstrated that the **Demi Ultra** was significantly lower than many popular products increasing to a maximum of 11 °F above body temperature for a 20 second cure time compared to an average of 18 °F above body temperature for several other leading brands of lights. The **Demi Ultra** continues the **Demi** tradition of simplicity of operation with its one mode and three cure time options. It is difficult to make a mistake with this curing light.

The **Demi Ultra LED/Kavo Kerr Group** curing light has replaced the traditional lithium battery power source with an ultra-capacitor that re-energizes to full power within 40 seconds.

RR

Full Research Report (Number 58)
available at dentaladvisor.com.



GlasIonomer Cement CX-Plus CAPSULE

Shofu Dental Corp.

(800) 827-4638 | www.shofu.com

Description

GlasIonomer Cement CX-Plus CAPSULE is a self-cured, fast-set glass ionomer luting cement indicated for cementation of crowns, inlays, and bridges. **CX-Plus** has a high level of fluoride release and a high compressive strength. Manual activation of the capsule is followed by mixing for 10 seconds in a high-speed capsule mixer. **CX-Plus** has a working time of 3:10 from the start of mixing and a setting time of 4:10. Each box contains 50 foil-wrapped capsules. **GlasIonomer Cement CX-Plus CAPSULE** was evaluated by 30 consultants in 596 uses. This luting cement received an 86% clinical rating.

Suggested Retail Cost

\$227.70/box of 50

Product Features

Consultants used **CX-Plus CAPSULE** for a variety of indications including cementation of metal- and zirconia-based crowns and bridges, posts, ortho bands, stainless steel crowns and crowns over implants. **CX-Plus CAPSULE** provides a homogeneous mix and is easy to express into the restoration. The cement coats the restoration without running yet flows well under pressure during seating. Excess cement peels cleanly from the margins when done during the gel stage. Consultants who took radiographs of completed restorations reported **CX-Plus** to be radiopaque.

++ ++

Consultants' Comments

"I like the fluoride release."

"Opacity facilitated easy cleaning."

"There were no complaints of sensitivity during or after use."

"Setting time is longer than I would like."

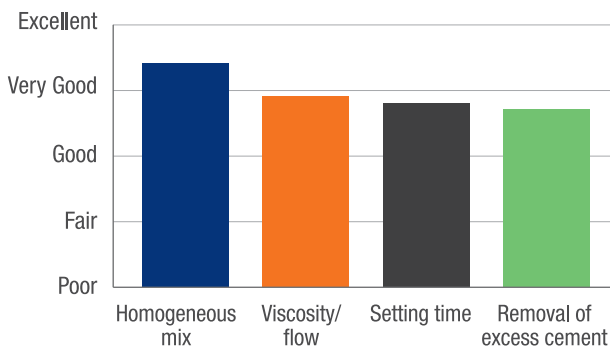
"Capsule is hard to activate."

"With multiple crowns, it was hard to determine whether there would be enough cement left in the capsule for all of them without having to mix another one."

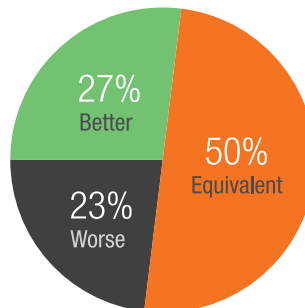
Clinical Tip

- Leave the tooth moist to avoid dehydration and post-operative sensitivity. ■

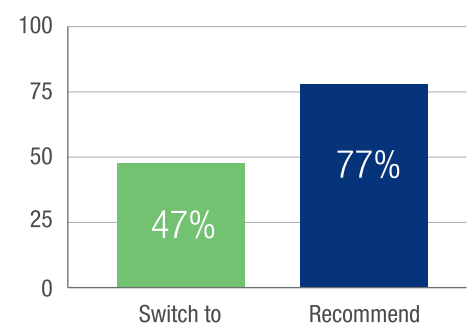
Key Features:



Compared to current product:



Percentage of consultants who would:



SDI (North America), Inc.
(800) 228-5166 | www.sdi.com.au, usa.canada@sdi.com.au

Description

Aura is a light cured, radiopaque composite restorative system with a unique shade matching system. *Aura* adopts a systematic and scientific approach to shade arrangement and colors of natural enamel and dentin. Shade designations for each category of composite (dentin, enamel, multipurpose, and bulk fill) are numerically arranged from light to dark. Dentin and enamel shades are intended for layered restorations.

- *Aura Enamel* shades are microfilled composite in shades in E1, E2 and E3. Enamel shades are not radiopaque.
- *Aura Dentin Chroma* shades are nano-hybrid composites based on a single opacity and single hue that is fluorescent with a broad range of chroma, in shades DC1, DC2, DC3, DC4, DC5, DC6 and DC7.
- *Aura Multipurpose Chroma* is a nano-hybrid composite in shades MC2, MC3, MC4 and MC5. These are less opaque and designed for general non-layering or bulk-filling requirements with a 4 mm depth of cure.
- *Aura Bulk Fill* composite has a 6 mm depth of cure using 20 seconds with an LED curing light or 40 seconds with a halogen light.

Aura composite is available in 4 g syringes and 0.25 g unit dose capsules (3 g syringes/ 0.20 g unit dose for Enamel shades). *Aura* was evaluated by nine editors in 345 uses. This composite system earned a 91% clinical rating.

Suggested Retail Cost	
<i>Aura Master Kit Syringe</i>	\$999.00
<i>Aura Master Kit Complet</i>	\$153.89
<i>Aura Starter Kit Syringe</i>	\$333.42
<i>Aura Starter Kit Complet</i>	\$341.97
<i>Aura Syringe Refill</i>	\$111.14
<i>Aura Complet Refill</i>	\$113.99

Clinical Observations

Instructions/Packaging

Syringes and capsules of *Aura* are labeled completely with name, shade and expiration date. Unit-dose capsules are color-coded by type of composite and are boxed in clear plastic containers that are easy to store. The kit includes clear instructions on shade selection based on chroma.

Handling

Aura nano-hybrid composites handle extremely well. The viscosity has sufficient body for packing without being too stiff. Sculpting anatomy can be done with no sticking of the instrument to the composite. The Enamel shades are softer and waxier.

++++ 1/2



Consultants' Comments

"The handling properties of *Aura* are very good."

"The combination of a nano-hybrid and a microfill is a nice feature within a single system."

"Capsule design and color coding are perfect."

"I would not use the enamel shades in the posterior because they are radiolucent."

"Adapting to this shade system is challenging."

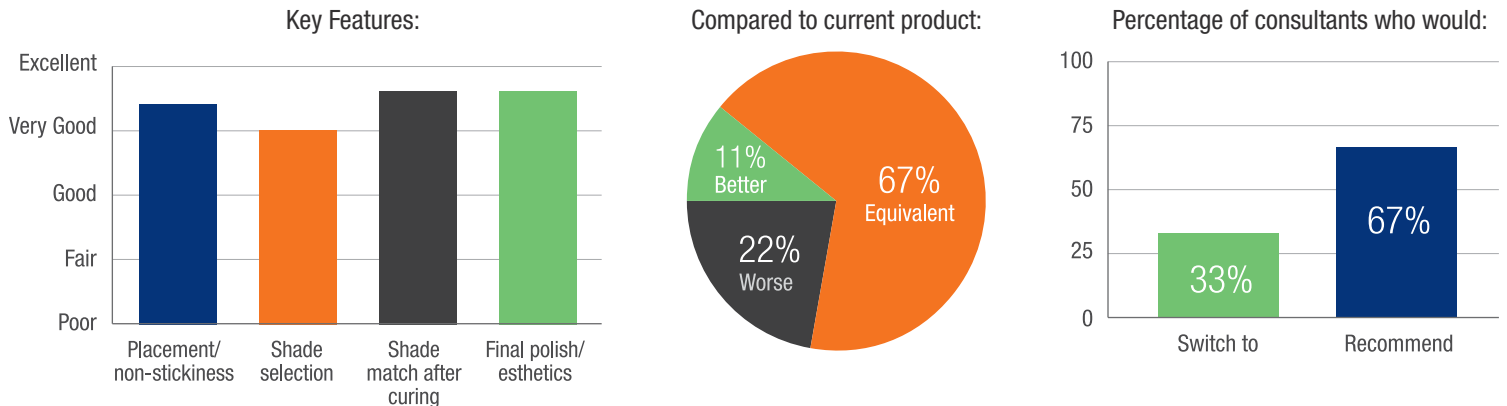
Shades

The *Aura* shading system was new to the consultants, requiring a shift in how they approached shade selection. While it was not difficult to learn, consultants were resistant to change from the familiar Vita system. The *Multipurpose Chroma* shades blend well and work as a universal anterior/posterior single-layer composite.

Esthetics

The *Aura* system provides a variety of composites to satisfy all clinical situations. Shades blend well with the tooth, and they all polish well. Use of the *Aura Dentin Chroma* shades replicate the opacity of dentin and are especially useful in Class III and Class IV restorations. *Aura Enamel* polishes to a high shine, matching the gloss of tooth enamel. *Aura Bulk Fill* is fairly translucent but was reported to be acceptable for most posterior applications. ■

Aura (cont.)



1shot SUB Series

1shot Dental

+64 7-827-6021 | www.1shotdental.com

Description

1shot SUB Series is a dental x-ray holder system designed for use with all films, sensors and phosphor plates. This third-generation system has two silicone universal bands (SUB) for securing the film/phosphorplate (PSP) sensor to the holder. There is one band on each side of the sensor cable (if used), providing no tearing of hygiene bags and a quick easy release. The set of four holders can be used to aid positioning bitewing, anterior and posterior periapicals, as well as anterior and posterior endodontic radiographs. **1shot SUB Series** uses a color-coded system of holders. The four-holder model fits all sizes (0, 1, 2 and 3) and all films/PSP/sensors and also lines up with the x-ray cone on three planes. All plastic holders and silicone bands are reusable and autoclavable. Each kit contains eight holders and 40 SUB bands. **1shot SUB Series** was evaluated by 31 consultants in 753 uses. This x-ray holder system received a 86% clinical rating.

Suggested Retail Cost

\$140.00/box

Product Features

1shot SUB Series accommodates all size 0, 1 and 2 films and sensors. The thickness of hard sensors creates a very tight fit of the silicone bands, although placement of films and phosphor plates is easy. The bright colors help users differentiate the holders and choose the proper one for the view desired. Consultants reported that orienting the sensor/film in the holder was not intuitive and attaching the band was cumbersome. Having to select a different holder for other areas of the



Consultants' Comments

"Fits many different sensors, films and PSP."

"Bands hold up well through sterilization."

"External portion aids in aligning x-ray tube."

"The sensor cannot be placed at the very bottom of the holder tab because the bands need something to hold onto. The thickness of the holder uses a few millimeters of space on the image, sometimes cutting the apices from the picture."

mouth decreases efficiency, although the two-holder model is all that is needed for a particular film/PSP/sensor to take bitewing, periapical and endodontic shots. **1shot SUB Series** provides good alignment of the x-ray tube to the film/sensor. Thirteen percent of consultants reported that **1shot SUB Series** was better than other holders they had used, and 13% reported it was the same. Sixteen percent of consultants would switch to **1shot SUB Series** and 29% would recommend it.

Clinical Tip

- Instructional videos are available on the **1shot Dental** website and can also be accessed using QR readers on a smart phone. ■

SofPull® High-Capacity Centerpull Bathroom Tissue Dispenser

Georgia-Pacific Professional
1-866-Hello GP, 1-866-435-5647 | www.gppro.com

Description

The **SofPull® High-Capacity Centerpull Bathroom Tissue Dispenser** is designed to help improve hygiene while saving cost and waste. It dispenses on sheet at a time from the center of the roll through an opening in the translucent plastic cover. The tissue itself has no outer carton or inner wrapping, helping to further reduce waste. Each roll contains 925, two-ply sheets. The **SofPull® High-Capacity Centerpull Tissue Dispenser** was installed in four dental offices and evaluated over a three-month period. This bathroom tissue dispenser earned an 83% clinical rating.

Suggested Retail Cost	
Unit	\$13.99
16-count box of bathroom tissue	\$59.44

Clinical Observations

Installation

The **SofPull® High-Capacity Centerpull Tissue Dispenser** included a wall-mounted bracket and hardware for secure installation.

Quality of tissue

Georgia-Pacific SofPull® White Mini White 2-Ply High-Capacity Centerpull Bathroom Tissue was provided for this evaluation. Care must be taken to avoid too much tension while pulling the tissue. The tissue is thin and can tear at the edge of or inside of the dispenser, making it impossible to continue using the dispenser without opening it and pushing the tissue through manually. Because the tissue is thin, a greater number of sheets were used.

+++ 1/2

Consultants' Comments

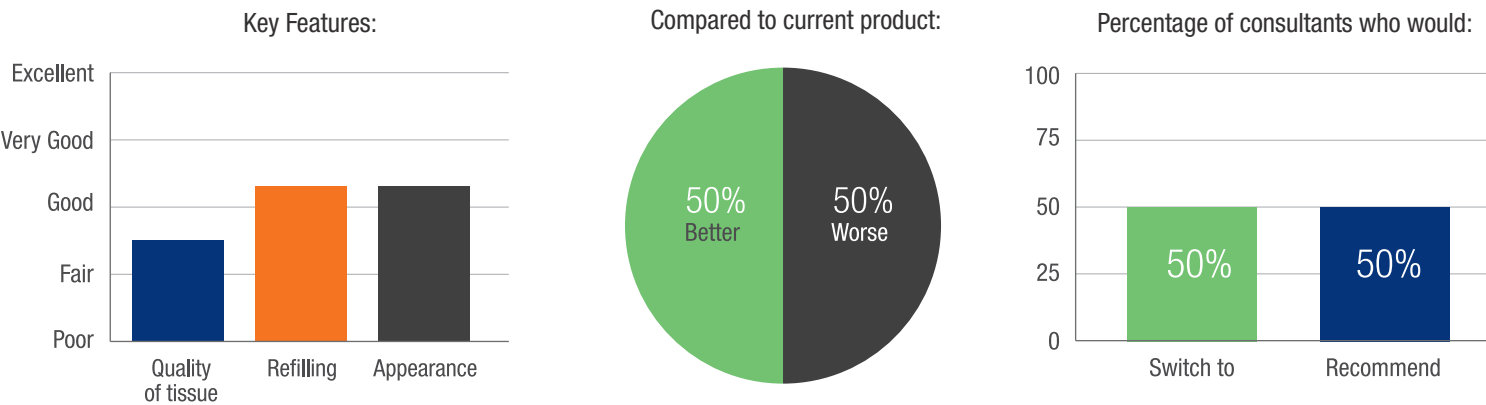
- "Tissue stays clean in the dispenser."
- "Thin paper tears easily."
- "Must purchase tissue refills from this manufacturer."
- "Enlarge the tissue opening or provide a way to advance the tissue when the end cannot be reached."

Dispenser

The **SofPull® High-Capacity Centerpull Tissue Dispenser** completely encloses the roll, helping to reduce the chance of contamination of the tissue. The unique method of dispensing tissue from the center of the roll involves a dispenser that has a bulkier profile on the wall compared to the usual orientation. The key lock required for refilling was reported to be an obstacle to re-threading the tissue through the opening when needed. The translucent cover allows users to see the amount of tissue remaining.

Efficiency

SofPull® High-Capacity Centerpull Tissue Dispenser offers the convenience of changing the roll less often compared to standard rolls of tissue. ■



GP™ Georgia-Pacific Automated Touchless Soap and Sanitizer Dispenser

Georgia-Pacific Professional

1-866-Hello GP, 1-866-435-5647 | www.gppro.com

Description

GP™ Automated Touchless Soap and Sanitizer Dispenser is designed to provide hygienic hands free delivery for the value oriented user. The dispenser is a closed, automated system that utilizes a motion sensor. It delivers up to 7000 controlled portions of soap before refill. The automated dispenser is available in Translucent White, Translucent Smoke and Splash Blue and it operates on four, D cell alkaline batteries, which are included. **GP™ Automated Touchless Soap and Sanitizer Dispenser** was evaluated by 21 consultants in over 1300 uses. This soap dispenser earned a 92% clinical rating.

Clinical Observations

Installation

The included bracket is easily mounted to the wall with screws or adhesive tape. The dispenser sides onto the bracket and is removable for cleaning. Both mounting methods were reported to sustain the weight of the dispenser filled with soap and batteries.

Quality of Soap

The foam soaps evaluated require just a small volume to work into a substantial lather. The soap spreads quickly and rinses off thoroughly without leaving any residue on the hands. Only this manufacturer's soap refills can be used with the **GP™ Automated Touchless Soap and Sanitizer Dispenser**.

+++ 1/2



Consultants' Comments

"No excess volume amount of soap is dispensed."

"Leaves no mess on the counter."

"Motion sensor is responsive."

"Soap is a little harsh for frequent use."

"I would like a greater amount of soap with each dispense."

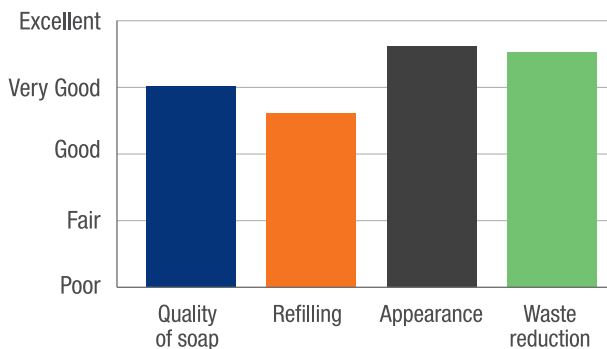
Dispenser

Consultants rated the amount of soap dispensed by the **GP™ Automated Touchless Soap and Sanitizer Dispenser** as just right or slightly low. No excess soap dripped onto the counter or floor after use. Refilling with a new bag is easy and the cover closes securely with a key.

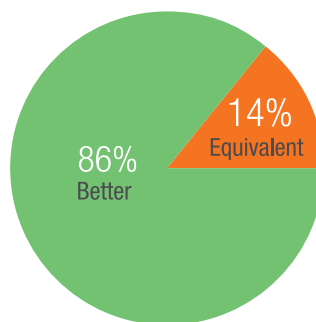
Efficiency

Soap refills last a long time by metering doses for each use. ■

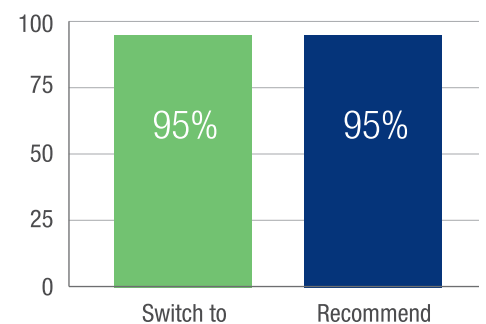
Key Features:



Compared to current product:



Percentage of consultants who would:



SofPull® Regular Capacity Centerpull Towel Dispenser

Georgia-Pacific Professional
1-866-Hello GP, 1-866-435-5647 | www.gppro.com

Description

SofPull® Regular Capacity Centerpull Towel Dispenser is a hands-free model that requires no touching of the dispenser. It is available in translucent white, translucent smoke and splash blue. It offers efficiency and convenience while helping reduce the risk of cross contamination. **SofPull® Centerpull Towel Dispenser** has towels threaded through a central hole in the bottom of the unit. As a towel is pulled and ripped off, several inches of a new towel extend for the next user. The dispenser holds up to 320, 7.8" x 15" center-pull towels, allowing for extended time between refills. The unit has an indicator for low volume in order to manage refills. **SofPull® Regular Capacity Centerpull Towel Dispenser** was evaluated by 12 consultants in over 2000 uses. This towel dispenser earned an 88% clinical rating.

Suggested Retail Cost	
Unit	\$20.00
6-rolls of refill paper towels	\$79.00

Clinical Observations

Installation

SofPull® Regular Capacity Centerpull Towel Dispenser includes a wall-mounted bracket and hardware. Proper installation is important since tearing off towels requires some force. Consultants requested better installation instructions.

Quality of Towels

This dispenser must use the manufacturer's refill towels. **Georgia-Pacific SofPull® White Premium 1-Ply Regular Capacity Centerpull Paper Towels** were provided for this evaluation. The quality of the towels was reported to be equivalent to some consultants' regular products and thinner than others. The size of the towels is adequate for most regular hand drying.



Consultants' Comments

- "Controlled dispensing reduces waste."
- "Less frequent refilling of towels."
- "Neat, professional appearance."
- "Low paper indicator triggers at approximately 50 sheets."
- "Bulkier than C-fold dispensers."
- "Towels leave lint on surfaces."
- "I would like a more absorbent towel."

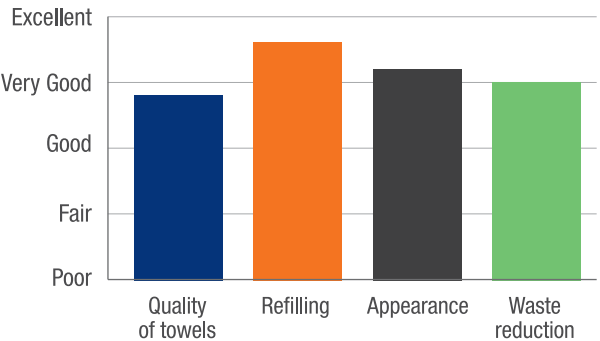
Dispenser

SofPull® Regular Capacity Centerpull Towel Dispenser dispenses one towel at a time without contaminating the dispenser. It was reported to be durable in steady-use areas during the evaluation period.

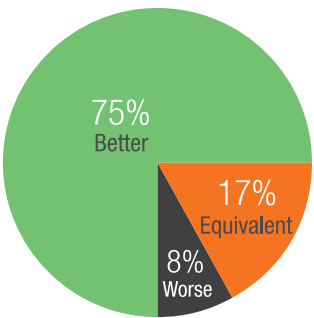
Efficiency

SofPull® High-Capacity Centerpull offers the convenience of reloading towels less often compared to folded towels (multi-fold, bi-fold, C-fold). ■

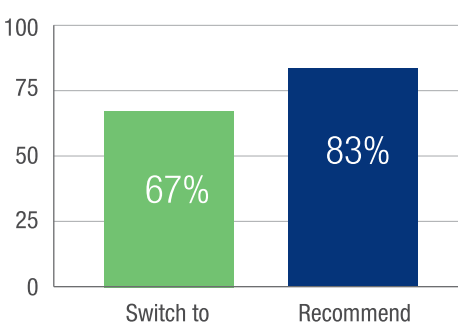
Key Features:



Compared to current product:



Percentage of consultants who would:



GC FujiCEM™ 2

GC America, Inc

(800) 323-7063, (708) 597-0900 | www.gcamerica.com

Description

GC FujiCEM 2 is a resin-modified glass ionomer luting cement with increased bond strength. Compared to original **GC FujiCEM**, it has increased bond strength to tooth structure and restorative materials.

GC FujiCEM 2 is indicated for permanent cementation of all types of metal-, resin-, alumina- and zirconia-based inlays, onlays, crowns, bridges, and endodontic posts. Working time is two minutes 15 seconds, and intraoral setting time is four minutes and 30 seconds. It is available in a light yellow shade and comes packaged with one 13.3 g **GC Paste Pak** cartridges, 20 mixing tips and one **GC FujiCEM 2 Dispenser**.

Clinical Evaluation Protocol

One hundred seventy-one restorations were cemented with **GC FujiCEM 2** over 16 months. One hundred twenty-one of these anterior (9%) and posterior (91%) restorations consisting of single crowns, implant crowns and bridges (Figure 1) were recalled at one year. The majority of the restorations cemented with **GC FujiCEM 2** were zirconia-based (Figure 2). The restorations were evaluated for lack of sensitivity, resistance to marginal discoloration and retention on a 1-5 rating scale: 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

Results at One Year

Lack of Sensitivity

Lack of sensitivity was rated excellent at one year (Figure 3). Only two patients experienced post-cementation sensitivity. One patient experienced moderate sensitivity that subsided one week after the occlusion was adjusted. The other patient who had a deep preparation experienced severe sensitivity to pressure initially. After occlusal adjustment, the sensitivity subsided somewhat but the tooth was still uncomfortable to hot and cold temperatures, necessitating a root canal one year after cementation.

Resistance to Marginal Discoloration

Resistance to marginal discoloration was rated excellent at one year (Figure 3). One tooth (#8) exhibited moderate discoloration at the facial margin. All of the other teeth exhibited no marginal discoloration.

Retention

Retention was rated excellent at one year (Figure 3). Four of the 121 restorations (3%) debonded and required recementation. This retention rate is comparable to other adhesive cements at one year.

Conclusions

GC FujiCEM 2 was found to be an excellent user friendly cement that is easy to place and clean up. It resulted in excellent lack of sensitivity, resistance to marginal discoloration and retention. **GC FujiCEM 2** received a 98% clinical performance rating. ■

1-year Clinical Performance

+++++

Consultants' Comments

"The fluoride release is reassuring."

"Excellent retention!"

"GC FujiCEM 2 is our go to cement for all restorations that do not require esthetic cementation."

"Faster setting time would be an improvement."

"Great automix dispensing syringe and easy cleanup."

FIGURE 1

Types of Restorations Evaluated at One Year



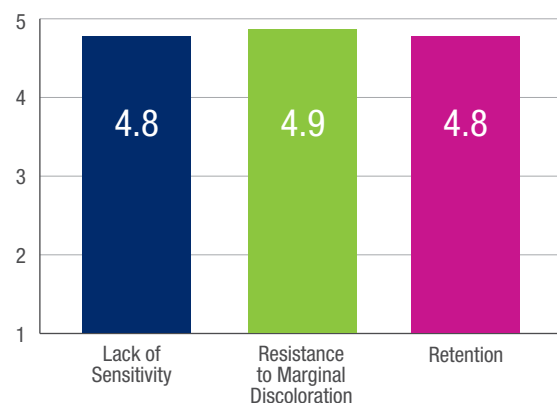
FIGURE 2

Distribution of Restorative Material



FIGURE 3

Results of GC FujiCEM 2 at 1 year



Multi-Axis Spiral Suction (M.A.S.S.)

Ghost Mfg.

(269) 281-0489 | www.ghostmfg.com, www.masssuction.com

Description

The **Multi-Axis Spiral Suction (M.A.S.S.)** dental HVE tip has a spiral vented design, angled barrel wall, and a rolled edge. **M.A.S.S.** tips fit on standard high-volume valves and are available in 100-count packages. **M.A.S.S.** was evaluated by 34 consultants in 769 uses. This HVE tip received an 87% clinical rating.

Suggested Retail Cost

\$14.99/100 tips

Product Features

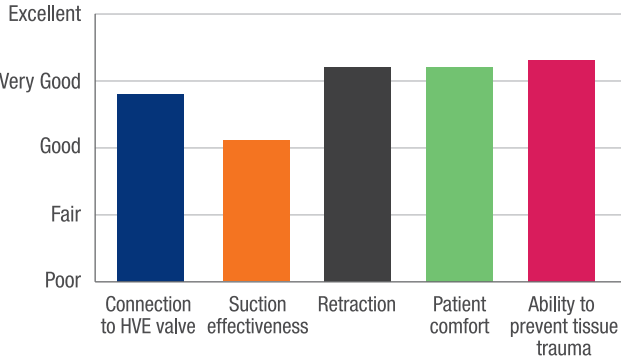
The vented design of **M.A.S.S.** can be used in all areas of the mouth without grabbing soft tissue. Patients could even close on the tip as comfortably as with a saliva ejector. The smooth, rolled tip enhances patient comfort, and the angled tube provides good retraction and better visibility than a straight HVE tip. While the vent holes decreased the strength of the suction, it was strong enough for most procedures. Hygienists found **M.A.S.S.** tips useful during ultrasonic scaler procedures. ■



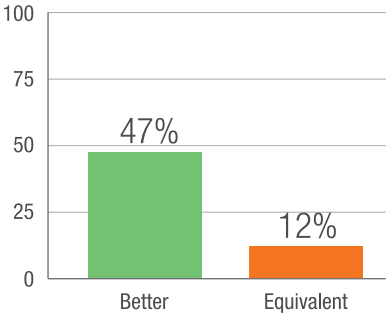
Consultants' Comments

- "One tip serves the function of a HVE tip and a saliva ejector."
- "Does not grab soft tissue."
- "The first real advance in HVE tips in 40 years."
- "Keeps water mist off of the doctor's mirror."
- "Angled design allows better visibility."

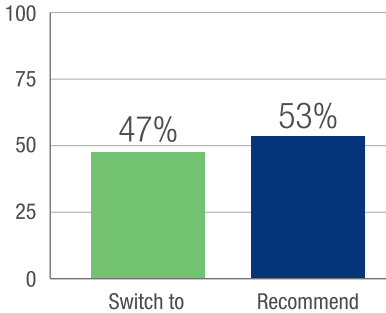
Key Features:



Compared to competitive products:



Percentage of consultants who would:



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