



Clearfil S BOND
(Kuraray America)

Premier Implant Cement
(Premier Dental Products)



Ice
(SDC)



LUMINEERS BY Cerinate
(Den-Mat)

ELECTROtorque Plus
(KaVo Dental)



Infusible Syringeable
(Den-Mat)



Root ZX II
(J. Morita USA)



Estelite Sigma
(Tokuyama Dental Corp.
J. Morita USA)



D.T. Light-Post
(Bisco)

Core Paste Syringeable
(Den-Mat)



GrandIO
(VOCO)



BisCover
(Bisco)



Optima MX
(Blen Air)

THE DENTAL ADVISORTM

"Improving Patient Care Through Research & Education"



2006 Preferred Products

This issue of THE DENTAL ADVISOR highlights Dr. Farah's 2006 Preferred Products. These products have been evaluated and highly rated by THE DENTAL ADVISOR and are considered to be some of the best products in today's dental market. Also featured in this issue is an index of Volume 22, 10 issues from 2005, referencing main topic articles, editorial articles, and evaluated materials and equipment listed by product name, company name, and category.

For 22 years, THE DENTAL ADVISOR has provided dental professionals worldwide with accurate, objective, and relevant information needed to make the best decisions on which products to use in their offices. With the additions of our new **Biomaterials Research Center** and **Education Center**, our unique resources allow us to meet the needs of dental professionals and dental manufacturers, by expanding our mission of "Improving Patient Care Through Research & Education."

2006

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

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2006 Preferred Products

The 2006 Preferred Products list provides you with a valuable reference for selecting products and equipment. This annual list is compiled by Dr. John Farah, editor of THE DENTAL ADVISOR. The list contains familiar favorites, as well as some of the newest products on the market. We hope you find this information helpful when looking to change products or reassuring if the product you are currently using made the list.

Product	Company
ALGINATE	
Hydrogum	Zhermack
Tropicalgin	Zhermack
ANESTHETIC	
Injectable	
Septocaine	Septodont
Topical	
Oraqix	DENTSPLY Pharmaceutical
ANESTHETIC DELIVERY	
CompuDent	Milestone Scientific
APPLICATOR	
Microbrush Tube Series – Disposable Applicators	MICROBRUSH INTERNATIONAL
BITE REGISTRATION MATERIAL	
EXABITE II NDS	GC America
Genie Fast Set	Sultan Healthcare
Occlufast Rock	Zhermack
Registrado X-tra	VOCO
BONDING AGENT	
4th-generation	
3M ESPE Adper Scotchbond Multi-Purpose Plus Adhesive System	3M ESPE
5th-generation	
3M ESPE Adper Single Bond Plus	3M ESPE
Excite DSC	Ivoclar Vivadent
Gluma Comfort Bond + Desensitizer	Heraeus Kulzer
6th-generation (Type I)	
AdheSE	Ivoclar Vivadent
Clearfil LINER BOND 2V	Kuraray America
Clearfil PROTECT BOND	Kuraray America
6th-generation (Type II)	
Xeno III	DENTSPLY Caulk
7th-generation	
Clearfil S+ BOND	Kuraray America
G-BOND	GC America
Xeno IV	DENTSPLY Caulk



3M ESPE Lava Crowns and Bridges (3M ESPE)



3M ESPE Protemp3 Garant (3M ESPE)



3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE)



Aquasil Ultra (DENTSPLY Caulk)



CeriSaw (Den-Mat)



Clearfil PhotoCore PLT (Kuraray America)



Clearfil PROTECT BOND (Kuraray America)



CompuDent (Milestone Scientific)



3M ESPE Impregum Penta Soft (3M ESPE)



3M ESPE Filtek Z250 (3M ESPE)



3M ESPE Filtek Supreme Plus (3M ESPE)



3M ESPE Adper Single Bond Plus (3M ESPE)

Product	Company
BUR	
Diamond	
G-Force	Garrison Dental Solutions
Strauss Diamond Burs	Strauss Diamond Instruments
CEMENT	
Adhesive Resin	
3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement	3M ESPE
Multilink Automix	Ivoclar Vivadent
Panavia F 2.0	Kuraray America
Carboxylate	
3M ESPE Durelon Maxicap Carboxylate Luting Cement	3M ESPE
Esthetic Resin	
Calibra	DENTSPLY Caulk
Variolink II	Ivoclar Vivadent
Variolink Veneer ¹	Ivoclar Vivadent
Hybrid Ionomer	
Fuji PLUS Capsule	GC America
Resin Ionomer	
Geristore Syringeable	Den-Mat
Infinity Syringeable	Den-Mat
Temporary	
3M ESPE RelyX Temp NE	3M ESPE
GC TEMP ADVANTAGE	GC America
NoMIX Temporary Cement	Centrix
Premier Implant Cement	Premier Dental Products
TempBond NE	SDS/Kerr
TempoCemNE Automix	Zenith Dental Products/DMG
CERAMIC	
Cerpress SL	Leach & Dillon Products
IPS Empress System	Ivoclar Vivadent
LUMINEERS BY Cerinate	Den-Mat
Posterior	
3M ESPE Lava Crowns and Bridges	3M ESPE

¹Formerly known as *Appeal Anterior*.

Product	Company
COMPOSITE	
3M ESPE Filtek Supreme Plus	3M ESPE
3M ESPE Filtek Z250	3M ESPE
4 Seasons	Ivoclar Vivadent
Estelite Sigma	Tokuyama Dental Corp./J. Morita USA
GRADIA DIRECT	GC America
GrandiO	VOCO
ice	SDI
Tetric EvoCeram	Ivoclar Vivadent
Flowable	
ESTELITE FLOW QUICK ²	Tokuyama Dental
GRADIA DIRECT LoFlo	GC America
Placement Instrument	
OptraContact	Ivoclar Vivadent
Packable	
3M ESPE Filtek P60	3M ESPE
Heliomolar HB	Ivoclar Vivadent
rok	SDI
SureFil	DENTSPLY Caulk
CORD	
Ultrapak Cord	Ultradent
CORE MATERIAL	
Build-It FR	Pentron Clinical Technologies
Clearfil PhotoCore PLT	Kuraray America
Core Paste Syringeable	Den-Mat
LuxaCore	Zenith Dental Products/DMG
Multicore Flow	Ivoclar Vivadent
Rebilda DC	VOCO
CROWN & BRIDGE REMOVER	
CORONaflex	KaVo Dental
DENTURE RELINE MATERIAL	
Hard	
Tokuyama Rebase II	Tokuyama Dental Corp./J. Morita USA
Ufi Gel hard C	VOCO

²Available in April 2006; selection based on premarket evaluation results.



EMBRACE WetBond Pit & Fissure Sealant (Pulpdent)



ESTELITE FLOW QUICK (Tokuyama Dental)



G-BOND (GC America)



Genie Fast Set (Sultan Healthcare)



Hydrogum
(Zhermack)



InstaTemp Max
(Sterngold)



Luxatemp Fluorescence
(Zenith Dental Products/DMG)



Microbrush Tube Series – Disposable Applicators
(MICROBRUSH INTERNATIONAL)



Multilink Automix
(Ivoclar Vivadent)



Occlufast Rock
(Zhermack)



OptraGate
(Ivoclar Vivadent)



Panavia F 2.0
(Kuraray America)



Honigum
(Zenith Dental Products/DMG)



Gloss-N-Seal
(Den-Mat)



G-Force
(Garrison Dental Solutions)



Genie Ultra Hydrophilic Impression Material
(Sultan Healthcare)

Product	Company
DENTURE RELINE MATERIAL (continued)	
Soft	
Ufi Gel SC	VOCO
DESENSITIZER	
PROSPEC MI Paste	GC America
ENDODONTIC – APEX LOCATOR	
Elements Diagnostic Unit	SybronEndo
Root ZX II	J. Morita USA
FINISHING & POLISHING	
PDQ Single-Step Composite Polishing System	AXIS Dental
PoGo	DENTSPLY Caulk
Super-Snap Singles	Shofu Dental
FINISHING STRIP	
CeriSaw	Den-Mat
NTI Serrated Diamond Finishing Strips	AXIS Dental
GAUZE	
Vital Gauze	MEDICOM
GLAZE	
BisCover	Bisco
Gloss-N-Seal	Den-Mat
HANDPIECE	
Electric	
ELECTROtorque Plus	KaVo Dental
Midwest eStylus	DENTSPLY Professional/Midwest
Optima MX	Bien Air
Synea Electric	A-dec/W&H
High-speed	
GENTLEforce LUX 6000B	KaVo Dental
Synea TA-96 LW	A-dec/W&H
Hygiene	
AP-44	A-dec/W&H
AP-64 Prophy Air	A-dec/W&H
KaVo PROPHYwiz	KaVo Dental

Product	Company
HANDPIECE (continued)	
Laboratory	
K4 Laboratory Handpiece	KaVo Dental
SYNCRO-TORQUE II ³	Handler Manufacturing
Maintenance	
QUATTROcare	KaVo Dental
Slow-speed	
2307 LN	KaVo Dental
GENTLEpower LUX LP	KaVo Dental
Synea Slow-Speed Handpiece	A-dec/W&H
HEMOSTATIC AGENT	
Astringident	Ultradent
ViscoStat	Ultradent
IMPRESSION MATERIAL	
Addition Silicone	
AFFINIS	Coltène/Whaledent
Aquasil Ultra	DENTSPLY Caulk
Flexitime	Heraeus Kulzer
Genie Ultra Hydrophilic Impression Material	Sultan Healthcare
Honigum	Zenith Dental Products/DMG
Virtual	Ivoclar Vivadent
Polyether	
3M ESPE Impregum Penta Soft	3M ESPE
P2	Heraeus Kulzer
IMPRESSION TRAY	
3M ESPE Directed Flow Impression Tray	3M ESPE
Quad Tray	Clinician's Choice
Soft Touch 3 in 1 Disposable Impression Trays	Bay Dental Direct Supply Company
ISOLATION DEVICE	
OptraGate	Ivoclar Vivadent
INTRAORAL CAMERA	
AcuCam Concept IV	KaVo Dental/Gendex Imaging
Sopro 575	Sopro/Acteon Group

³SYNCRO-TORQUE III is now available.



PoGo
(DENTSPLY Caulk)



PROSPEC MI Paste
(GC America)



PVdry Class B Sterilizer
(Barnstead Harvey)



QUATTROcare
(KaVo Dental/Gendex Imaging)



Strauss Diamond Burs
(Strauss Diamond Instruments)



Super-Snap Singles
(Shofu Dental)



Technique Toothbrush
(Sunstar Butler)



TESCERA ATL
(Bisco)



Tetric EvoCeram
(Ivoclar Vivadent)



Tropicalgin
(Zhermack)



Variolink Veneer
(Ivoclar Vivadent)



Versa-Link Porcelain Bonding System
(Sultan Healthcare)



SmartLite iQ
(DENTSPLY Caulk)



rok
(SDI)



Registrado X-tra
(VOCO)



Rebilda DC
(VOCO)

Product	Company
LABORATORY COMPOSITE	
3M ESPE Sinfony	3M ESPE
Sculpture Plus	Zahn
TESCERA ATL	Bisco
LIGHT CURING UNIT	
LED	
Allegro LED Light	Den-Mat
Coltolux LED	Coltène/Whaledent
L.E.Demetron I	SDS/Kerr
SmartLite iQ	DENTSPLY Caulk
LINER	
GC Fuji LINING LC PASTE PAK	GC America
OBTURATION UNIT	
Elements Obturation Unit	SybronEndo
OPERATORY SYSTEM	
Midmark Operatory System	Midmark
POST	
Esthetic	
D.T. Light-Post	Bisco
ParaPost Fiber LUX	Coltène/Whaledent
Metal	
ParaPost XT, XH	Coltène/Whaledent
PROVISIONAL MATERIAL	
InstaTemp Max	Sterngold
Luxatemp Automix Plus	Zenith Dental Products/DMG
Luxatemp Fluorescence	Zenith Dental Products/DMG
3M ESPE Protemp3 Garant	3M ESPE
Systemp.C&B	Ivoclar Vivadent
SEALANT	
EMBRACE WetBond Pit & Fissure Sealant	Pulpdent
SECTIONAL MATRIX SYSTEM	
Composi-Tight Gold	Garrison Dental Solutions
SILANE	
Versa-Link Porcelain Bonding System	Sultan Healthcare

Product	Company
STERILIZATION MONITORING	
PassPortPlus	SPSmedical Supply
STERILIZER	
PVdry Class B Sterilizer	Barnstead Harvey
LISA Sterilizer	A-dec/W&H
M11 UltraClave	Midmark
STATIM 5000	SciCan
TOOTHBRUSH	
Manual	
Technique Toothbrush	Sunstar Butler
Power	
Sonicare Elite 7800	Philips Healthcare
TOOTH WHITENING	
In Office	
GC TION	GC America
Opalescence Boost	Ultradent
ZOOM2 Whitening System	Discus Dental
Take Home	
NUPRO White Gold	DENTSPLY Professional
VivaStyle Plus	Ivoclar Vivadent
TRANSILLUMINATOR	
Microlux	AdDent
ULTRASONIC CLEANER	
M550 Soniclean	Midmark
X-RAY PROCESSOR	
GXP Dental X-ray Processor	KaVo Dental/Gendex Imaging



Vital Gauze
(Medicom)



Xeno IV
(DENTSPLY Caulk)

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MEDICOM
Denti-Care 0.12% Chlorhexidine Oral Rinse (22-2)
Denti-Foam (22-1)
SafeTouch Non-Latex (PVC) Examination Gloves (22-3)
Vital Gauze (formerly Safe Gauze 3D) (22-2)

Microlux – Product Update (22-5)
microSystem MKII Dispenser (22-7)

Midwest eStylus (22-1)
Midwest Stylus (22-2)

Miltex
GripLite (22-3)
Liberator (22-9)

MultiCore (22-9)
Multilink Automix (22-8)

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NUPRO Prophylaxis Paste, Chocolattè –
Product Update (22-5)

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O-Bite (22-10)

OBTURATOR
FibreFill Continuous Taper Obturator (22-3)

OBTURATION UNIT
Elements Obturation Unit (22-6)

OneCoat Self-Etching Bond (22-5)

One-Up Bond F Plus (22-5)

OPERATORY: Chair
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DentalEZ Silhouette Chair (22-6)

OptiDisc (22-7)

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OptraContact (22-7)

OptraGate (22-8)

OptraMatrix (22-7)

OptraSculpt (22-8)

Oraqix (22-10)

P

Palodent Sectional Matrix System, The (22-2)
ParaPost Fiber Lux (22-4)
Pentron Clinical Technologies
FibreFill Continuous Taper Obturator (22-3)
Sculpture Plus 1-year Clinical Performance (22-4)

Phillips Oral Healthcare
Sonicare IntelliClean system 8800 (22-6)

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DryerPliers (22-8)

Polydentia
The Wedge (22-10)

POST: Fiber
ParaPost Fiber Lux (22-4)

POST: Glass
FRC Postec Plus (22-9)

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Premier Implant Cement (22-2)

Premier Implant Cement (22-2)

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PROPYLAXIS PASTE
NUPRO Prophylaxis Paste Chocolattè –
Product Update (22-5)

PROSPEC MI Paste (22-5)

PROVISIONAL: Material
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StructurPremium (22-9)

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QuiXX Posterior Restorative (22-2)

R

radlii (22-4)

RECALCIFICATION PASTE
PROSPEC MI Paste (22-5)

RETRACTION: Device
OptraGate (22-8)

RETRACTION: VPS
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SafeTouch Non-Latex (PVC)
Examination Gloves (22-3)

Saliva-Check (22-5)

SalivaSure Lozenges (22-2)

SALIVA TEST KIT
Saliva-Check (22-5)

Sani-Soak ultra (22-8)

Scandinavian Formulas
SalivaSure Lozenges (22-2)

Sculpture Plus 1-year Clinical Performance (22-4)

SDS/Kerr
Fill-in (22-7)
OptiDisc (22-7)
Premise (22-8)
StandOut (22-8)

SILANE
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SHARPS CONTAINER
Isolyser/SMS 2400 (22-1)

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Strauss Diamond Instruments
Strauss Diamond Burs (22-6)

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SybronEndo
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3M ESPE Filtek Supreme
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WEDGES
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Advisory Board Profiles

Frederick A. Rueggeberg, D.D.S., M.S. (22-2)

Editors' Choice

Clearfil S[®] BOND (22-8)
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Editors' Evaluation

Clearfil S[®] BOND (22-8)
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Sculpture Plus 1-year Clinical Performance (22-4)
3M ESPE Filtek Supreme
2-year Clinical Performance (22-5)
3M ESPE RelyX Unicem Self-Adhesive Universal Resin
Cement 2-year Clinical Performance (22-4)
3M ESPE Sinfony 5-year Clinical Performance (22-1)
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Microlux (22-5)
NUPRO Prophylaxis Paste, Chocolattè (22-5)

Senior Consultant Profile

Keith L. Schwartz, D.M.D. (22-3)

What's New

Elements Obturation Unit (22-3)

GRADIA DIRECT + + + + +

GC America
800.323.7063 • 708.597.0900
www.gcamerica.com

Description

GRADIA DIRECT is a microhybrid resin composite for anterior and posterior use. The complete direct restoration system features 26 shades in both unit-dose capsules and syringes. Different formulations exist for anterior and posterior use. Posterior shades are radiopaque and have a heavier body for packing in interproximal areas. Anterior shades are radiolucent, have a creamy consistency, and emphasize esthetics and the reflective quality of the material. Standard shades alone are adequate for use in the majority of restorations. In cases of complex esthetic restorations, special “Inside” (opaque) and “Outside” (translucent) shades are provided. Shades available include:

- Standard Vita shades – 11 anterior and four posterior
- Outside shades – six anterior and two posterior
- Inside shades – three anterior

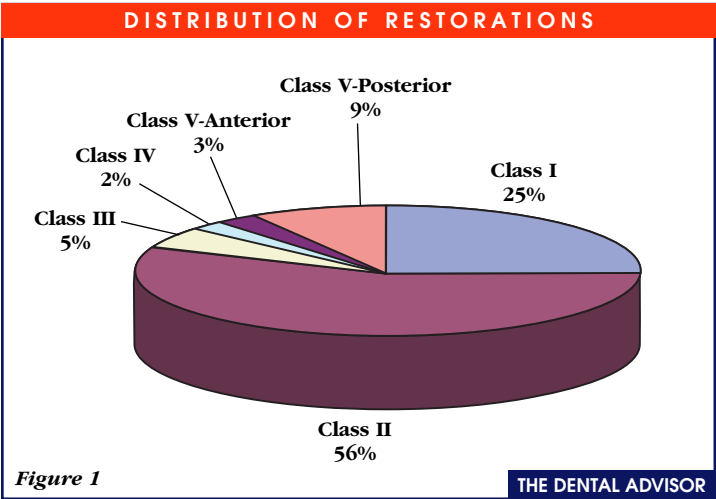
The complete kit includes 26, 2.7-g syringes or 106, 0.16-ml capsules of composite with a shade guide. This product received a 98% clinical rating.

Suggested Retail Cost

- \$865.00/complete syringe kit
- \$387.00/complete unit-dose kit

Clinical Evaluation Protocol

- 767 restorations were placed in 393 patients.
- 184 restorations in 96 patients were available for recall at 1-year.



1-YEAR CLINICAL PERFORMANCE

Consultants' Comments

- ▶ “Smooth, beautiful restorations.”
- ▶ “This is my first choice for direct anterior restorations.”
- ▶ “Shades available are very complete.”

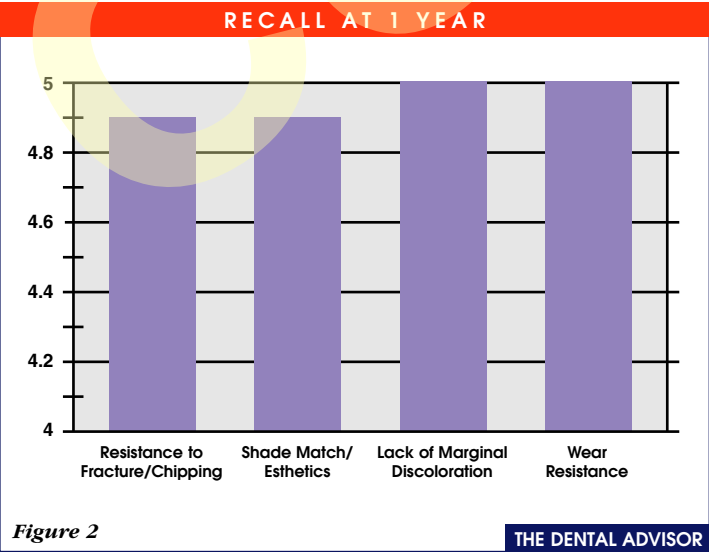
- Restorations evaluated at recall included 166 posterior and 18 anterior restorations (Figure 1)
- Categories were rated on a 1-5 scale: 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

Clinical Observations

Resistance to Fracture/Chipping (see Figures 2 and 3) Ninety-five percent of **GRADIA DIRECT** restorations exhibited no chips or fractures. Slight surface chips were seen on eight posterior restorations, none of which required repair. Two anterior restorations on different patients required repair or replacement. A Class V restoration on the facial surface of tooth number 8 chipped at the margins, requiring repair. One Class IV restoration of a mandibular incisor fractured, requiring complete replacement.

Shade Match/Esthetics

The standard shades of **GRADIA DIRECT** resulted in restorations that blended very well with the surrounding tooth structure. A single shade was used in 95% of the restorations. The special opaque and translucent shades were used in some of the anterior restorations. Large Class III and Class IV restorations benefited esthetically when a layer of an opaque shade was used under a standard shade.



Some restorations (7%) of a similar size, utilizing only the standard shade, were rated too translucent. At 1-year, overall appearance of restorations was rated excellent. The restorations showed no staining or discoloration.

Lack of Marginal Discoloration

Marginal discoloration, or microleakage, can be influenced by factors such as the restorative material, finishing procedures, bonding agent, and bonding technique. A variety of bonding agents were used during placement of **GRADIA DIRECT** restorations. Ninety-nine percent of restorations showed no staining at the margin at 1-year.

Wear Resistance

Ninety-eight percent of the restorations were rated excellent for wear resistance. Only three posterior restorations exhibited visible signs of wear, all of which were slight.

CaineTips + + + + 1/2

J. Morita USA, Inc.
888.566.7482 • 949.581.9600
www.jmoritausa.com

Description

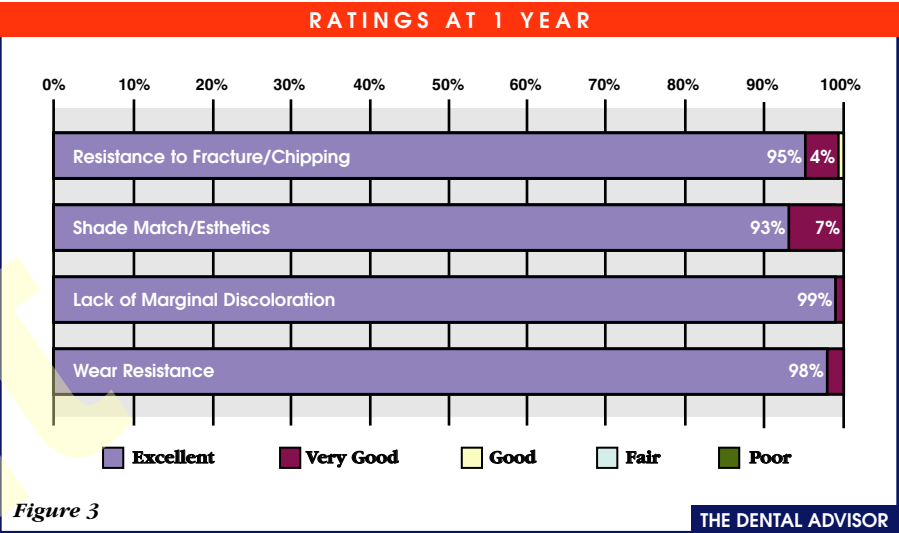
CaineTips are individually packaged, single-use cotton swabs pre-filled with a 20% benzocaine solution for intraoral topical pain relief. Recommended uses include pre-injection sites; hygiene procedures such as periodontal curettage and deep scaling; relief of pain due to ulcers, wounds, or other minor mouth irritations caused by dentures or orthodontic appliances; and dental procedures such as impressions and x-rays. **CaineTips** are available in boxes of 100 and in three flavors: cherry, peppermint, and piña colada. Twenty-seven consultants evaluated cherry **CaineTips** in 775 clinical applications. This product received a 93% rating.

Suggested Retail Cost

- \$23.90/box of 100

Product Features

All of the consultants who tested **CaineTips** were using a topical anesthetic before the evaluation. The concept of anesthetic in a unit-dose cotton swab was highly rated.



The individual packaging of **CaineTips** helps prevent cross-contamination. Several consultants found that the individual packaging was convenient to give to patients for at-home treatment of oral ulcers. The ease of using **CaineTips** on patients and the simplicity of activation were rated as excellent by consultants. Many consultants stated that they would like **CaineTips** swabs to be longer for easier access to posterior areas. The viscosity of the benzocaine solution was found to be too low; if the tip of the cotton became over saturated, it had a tendency to drip. Seventy-nine percent of consultants thought that **CaineTips** were equivalent to or better than their current topical anesthetic. Sixty percent would switch to **CaineTips**, and 75% would recommend them to a colleague.

Clinical Tip

- Do not allow all of the liquid to run to the tip; otherwise it will drip.

Consultants' Comments

- ▶ “Our hygiene department is raving about CaineTips.”
- ▶ “Effective for gingival sensitivity during prophys and root planing.”
- ▶ “Patients commented on the lack of discomfort with anterior injections.”
- ▶ “Add a color to all of the flavors of the topical anesthetic solution.”

BioSonic® UC100XD + + + +

Coltène/Whaledent, Inc.
800.221.3046 • 330.916.8800
www.coltenewhaledent.com

Description

BioSonic UC100XD is a large-capacity, ultrasonic cleaning unit for dental instruments, prostheses, and other oral appliances. The unit is compatible with all ultrasonic cleaning solutions. The tank capacity of **BioSonic UC100XD** is 1.25 gallons and the external dimensions are 42 x 24.8 x 26.7 cm (16.5 x 9.5 x 10.5"). The housing and lid are made of plastic rather than the conventional metal design. The unit is drained from the side with a clearly marked lever located on the front. The lid is attached to the base and propped open for access. Optional features evaluated by consultants:

- **UC53 Beaker** (600 ml) with cover and positioning ring
- **UC70** Sterilizable Instrument Cassette
- **UC151XD** full-size FingerGuard Basket
- **UC152XD** 3/4-size FingerGuard Basket
- **UC153** Beaker Positioning Rack
- **UC154XD** Cassette Rack for **UC70** Cassette

Fifteen consultants tested the **BioSonic UC100XD** in routine daily use for a period of three months. This product received a 90% clinical rating.

Suggested Retail Cost

- \$713.00/**BioSonic UC100XD**
- \$25.50/**UC53**
- \$41.04/**UC70**
- \$149.00/**UC151XD**
- \$129.00/**UC152XD**
- \$25.26/**UC153**
- \$87.74/**UC154XD**

Consultants' Comments

- ▶ *"Provide lower time settings on the digital display."*
- ▶ *"It would be nice to have a removable filter to clean debris."*
- ▶ *"The depth of the BioSonic UC100XD is great feature."*

Equipment Features

Consultants were pleased with the multiple features of the **BioSonic UC100XD**. The size of the unit is appropriate for a low-to medium-volume or one-doctor office. The plastic lid/housing may have assisted in reducing the noise experienced during operation. The lid is easily propped open and is very convenient for placing and

removing instruments. All assistants and hygienists indicated the unit is easy to drain. The effectiveness of cleaning smooth and serrated surfaces, blood removal, and cement from crowns was rated as excellent. The unit is easy to maintain and the touch pad is a nice feature. Dental assistants and hygienists who operated the unit on a daily basis would like more time options with lower minute settings (for example, five and 10 minutes). Also, a display of the time remaining would be useful. Since the 15-minute time option was used the most, it became stiff to press by the end of the evaluation period. The accessory pieces were fairly well received among the consultants. Many consultants prefer a basket design for holding individual sets of instruments over the **UC70** instrument cassette which they found more time consuming. The 3/4- and full-size baskets are both useful and received high ratings. Several consultants commented that **UC53 Beaker** and positioning ring were excellent and were used most often for cleaning dentures and removing cement from crowns. Sixty-four percent of consultants reported that the **BioSonic UC100XD** was equivalent to or better than their current ultrasonic, while 50% would switch and 75% would recommend the **BioSonic UC100XD** to their colleagues. ■

Editors' Note: A larger version, **BioSonic UC300**, is available for use in offices with a larger volume of instruments to process as both a countertop or recessed unit.

the product, a customized survey, and specific instructions for use. The consultants are asked to rate various categories using a 1-5 scale (1 = poor, 5 = excellent) as well as to comment on other aspects of the material. Completed surveys are tallied by one of our editors, a rating is calculated, and an article is written and reviewed by our editorial board. The "plus" rating is an average of all the categories evaluated. Information on the cost of a product is provided but is not used in determining the rating. Although we reserve the right to publish regardless of the rating, we work very closely with the manufacturer to make changes and improvements in the product, retesting if necessary.

Clinical Consultants

Our clinical consultants, an elite group of 244 practicing dentists, are specially selected. The title of Senior Clinical Consultant is awarded to a select group, based on their expertise, length and level of involvement, and overall contribution to our publication.

ÆLITE + + + + ½

Bisco
800.247.3368 • 847.534.6000
www.bisco.com

Description

ÆLITE is a light-cured composite system for direct restorations. The system includes **ÆLITE Aesthetic Enamel** nanofill, which is radiolucent; **ÆLITE All-Purpose Body** universal hybrid; and **ÆLITE LS Posterior**, a highly-filled, low-shrink posterior composite in a full range of Vita shades. The materials can be used in a single-shade technique or layered for enhanced esthetics. **ÆLITE** is offered in color-coded syringes or unit-dose dispensing and packaged in separate Anterior and Posterior kits. The Anterior kits (**ÆLITE Aesthetic Enamel** and **ÆLITE All-Purpose Body**) contain six syringes or 90 unit-dose tips, while the Posterior kits (**ÆLITE Aesthetic Enamel** and **ÆLITE LS Posterior**) contain five syringes or 75 unit dose tips in a variety of shades. The material is layered in one- to two-mm increments and light cured for 20-40 seconds depending upon the shade. Both kits also contain 32% phosphoric acid etchant with benzalkonium chloride; **One-Step Plus** adhesive; **BisCover LV** (Low Viscosity) surface protectant, modeling resin; and accessories. The Posterior kit also contains a dual-cured, low-viscosity radiopaque liner for use in boxes of Class I and Class II restorations. Twenty-three consultants evaluated



Consultants' Comments

- ▶ *"A very complete kit. The material handles and packs well."*
- ▶ *"Excellent blend and polishability render the restoration almost invisible."*
- ▶ *"Posterior composite is too soft – the material needs to be firmer."*
- ▶ *"The dual-cured liner is easy to use."*
- ▶ *"The posterior material, when used, is very opaque."*

ÆLITE in 549 direct (233 anterior and 316 posterior) restorations bonded with **One-Step Plus**. This product received a 92% clinical rating.

Suggested Retail Cost

- \$250.00/Posterior kit
- \$295.00/Anterior kit

Product Features

Most consultants were pleased with the completeness of the **ÆLITE** kit, although some consultants would have liked more shades and brief, laminated instruction cards. The posterior material is fairly dry while the enamel material is sticky. Use of

the modeling resin on the placement instrument greatly improves handling. The composite is dispensed easily from both the syringe and unit-dose tip. **ÆLITE** posterior shades pack nicely and resulting restorations provide good interproximal contacts. Anterior shades blend with the teeth extremely well with minimal layering. Some consultants noted that **ÆLITE** is sensitive to ambient light and has a shade shift between the uncured and cured material. Eighty percent of consultants found the **ÆLITE** system to be equivalent to or better than their current composite. Eighty-two percent of respondents indicated that they would recommend **ÆLITE** to a colleague. ■

the product, a customized survey, and specific instructions for use. The consultants are asked to rate various categories using a 1-5 scale (1 = poor, 5 = excellent) as well as to comment on other aspects of the material. Completed surveys are tallied by one of our editors, a rating is calculated, and an article is written and reviewed by our editorial board. The "plus" rating is an average of all the categories evaluated. Information on the cost of a product is provided but is not used in determining the rating. Although we reserve the right to publish regardless of the rating, we work very closely with the manufacturer to make changes and improvements in the product, retesting if necessary.

In-house Clinic

Our eight-operator, in-house clinic plays a central role in the short- and long-term monitoring of products and documenting their handling performance. This unique group consists of three dentists, eight dental assistants, and four dental hygienists. The dentists are editors of **THE DENTAL ADVISOR** and the assistants participate in weekly product discussions.

Research Laboratory Data

Laboratory evaluations are conducted by dental scientists under the supervision of Dr. John M. Powers at **THE DENTAL ADVISOR Biomaterials Research Center** and respected universities. All studies follow rigorous scientific protocols (e.g., ISO specifications). In-vitro properties provide a unique perspective on product performance. If a product rates well in the clinic but has a low property rating, the product may not be

the product, a customized survey, and specific instructions for use. The consultants are asked to rate various categories using a 1-5 scale (1 = poor, 5 = excellent) as well as to comment on other aspects of the material. Completed surveys are tallied by one of our editors, a rating is calculated, and an article is written and reviewed by our editorial board. The "plus" rating is an average of all the categories evaluated. Information on the cost of a product is provided but is not used in determining the rating. Although we reserve the right to publish regardless of the rating, we work very closely with the manufacturer to make changes and improvements in the product, retesting if necessary.

Dental Laboratory Technician Feedback

Our dental laboratories, including one on-site laboratory, provide product feedback. In some studies of indirect restorations, we have the distinct advantage of fabricating restorations and monitoring their performance over a period of time.

Our Mission

Our mission is to conduct objective, clinical evaluations, comprehensive long-term clinical evaluations, and laboratory testing of dental products and equipment, sharing our findings with dental professionals throughout the world. ■

SENIOR CLINICAL CONSULTANTS

E. Alpert, CT
R. Anthony, OH
K. Baker, TX
R. Ciccone, MI
P. Esmond, NY
M. Evans, TN
R. Fisher, OH
G. Franco, NY
P. Grandsire, NY
K. Hamlett, TX
G. Hart, OH
R. Kaprielian, NJ
E. Katkow, MD
L. Katkow, MD
C. Kehr, MI
E. Maitland, NJ
E. Mosso, PA
G. Mosso, PA
D. Peterson, MD
V. Plaisted, NY
W. Powell, TX
G. Poy, MI
G. Sayre, TX
K. Schwartz, FL
B. Shumaker, NJ
B. Sims, NY
A.M. Thompson, NY
R. Trushkowsky, NY
L. Wee, MI

CLINICAL CONSULTANTS

A. Abate, MI
M. Aksu, MI
A. Alexander, PA
J. Allen, MI
J. Amara, CT
R.M. Arnett, MI
R. Averbach, CO
A. Azrak, NY
M. Bannan, MI
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F. Berman, PA
M. Beyramian, MI
L. Bishop, MI
J. Bostic, OH
D. Bowen, MI
E. Bowser, PA
H. Bowser-Sletten, PA
R. Bozell, MI
M. Braverman, NY
L. Brimhall, MT
M. Briskin, NY
C. Brown, LA
W. Browncombe, MI
H. Buckwald, NJ
J. Bush, PA
H. Cadorette, MI
Z. Campbell, MI
P. Campo, NY
M. Chaben, MI
D. Chacko, TN
S. Cheff, TX
R. Cherry, FL
P. Chiaravalli, MI
T. Chuang, NJ
A. Colarusso, NY
M. Conrad, PA
M. Cooks, MI
K. Dancy, GA
M. Danner, IL
J. Dingman, WI
J. DiPonziano, NJ
R. Donelli, NY
R. Dost, VA
J. Doueck, NY
M. Dwoskin, MI
M. Eannaccone, NY
B. Eggart, AR
R. Engle, IL
K. Fairbanks, MI
T. Faiver, MI
R. Fay, TX
N. Fehmi, MI

THE DENTAL ADVISOR

Our Evaluation Process

THE DENTAL ADVISOR is regarded by many as the top evaluating organization of dental materials in the world. For over 23 years, we have been evaluating, rating, and publishing information to assist dentists with the difficult and often confusing process of dental product and equipment selection. The rating each product receives is based on survey results, laboratory properties and, when available, long-term clinical performance.

The Evaluation Process

A custom, product-specific survey is developed for each product evaluated. For most clinical evaluations, 20-30 clinical consultants are randomly selected to participate. Each consultant receives

GC TiON™ Tooth Whitening System + + + +

GC America
800.323.7063 • 708.597.0900
www.gcamerica.com

Description

GC TiON Tooth Whitening System is a complete tooth whitening system that includes in-office and take-home products. The in-office gel contains a light-activated photo-initiator (titanium dioxide) to enhance the whitening effect with a lower concentration of hydrogen peroxide (20%) than most other in-office products. The reduced concentration is intended to decrease patient sensitivity while increasing safety. To mix the product, the orifice of the gel syringe is connected to the liquid syringe, allowing mixing of the two components. The gel may be applied to the teeth for up to 20 minutes depending on use of a light source. Repeat up to three times per appointment. The **GC TiON Tooth Whitening System In-Office Kit** contains: one ml each of the whitening gel and liquid, 1.5-ml reactor, 0.8-ml gingival protector, three-ml **PROSPEC MI Paste**, non-fluoridated prophylactic paste (coarse), and accessories. **PROSPEC MI Paste** is a water-based

Patients' Comments

- ▶ "Easy to use."
- ▶ "Great results!"
- ▶ "Nice, complete kit with case."
- ▶ "Shorten time for home treatment."



topical paste that contains RECALDENT™ (CPP-ACP) which provides calcium and phosphate to the tooth to improve fluoride uptake and reduce sensitivity. The take-home gel has a pH of 6.4 to minimize tooth demineralization and contains potassium nitrite and sodium fluoride to reduce sensitivity during treatment. Two to 10 hours per day over seven to 10 days of take-home treatment is recommended following in-office treatment. The **GC TiON Tooth Whitening System Take Home Kit** contains: 2.5 ml of the whitening gel, three-ml **PROSPEC MI Paste**, patient take-home pouch, tray case, two sheets of custom-tray plastic, non-fluoridated prophylactic paste

Consultants' Comments

- ▶ "Less sensitivity was reported than with other products."
- ▶ "Even when no light is used, the results are good."
- ▶ "The packaging for the in-office system is too large to store in our refrigerator."
- ▶ "Add more bleaching gel to the take-home kit."
- ▶ "Include more dam material for isolation."

(coarse), and accessories. Eleven consultants evaluated the **GC TiON Tooth Whitening System** with 67 patients. This product received an 86% clinical rating.

Suggested Retail Cost

- \$85.00/kit

Product Features

GC TiON Tooth Whitening System is packaged with all the necessary materials for both in-office

and take-home tooth whitening. The gingival protector flows readily on the gingiva to form a one- to two-mm protective layer after light curing. The reactor liquid is applied onto the surfaces of the teeth with a brush followed by application of the mixed whitening gel. The gel has a viscosity that allows precise application with no slumping. Light activation can be accomplished with a whitening light or any light-curing unit with a wavelength of 380-500 nm. Lack of post-treatment sensitivity was reported to be excellent, and the use of **PROSPEC MI Paste** was effective in reducing sensitivity in those cases where it occurred. The effectiveness of the in-office whitening was judged to be good with 75% of the consultants rating it equivalent to or better than their current product. A marked increase in the whitening effect was reported after use of the take-home supplement. Sixty-seven percent of consultants would purchase and 71% would recommend the **GC TiON Tooth Whitening System**. ■

BiteStrip® + + +

Great Lakes Orthodontics, Ltd.
800.828.7626 • 716.871.1161
www.greatlakesortho.com

Description

BiteStrip is a home-screening tool to detect the amount of nocturnal bruxism. The device is a single-use, disposable, electromyogram (EMG) used to detect and evaluate nocturnal jaw muscle activity (bruxism). It is 27-mm long and adheres to the jaw over the masseter muscle with an adhesive strip. The unit is powered by a lithium battery and has two pre-gelled EMG electrodes to detect muscle activity. Recommended test time is overnight. After the test is completed, an electrochemical display shows a score of 0 to 3 representing the range of bruxing episodes over a five-hour period:

- 0 = No bruxism: up to 39
- 1 = Mild: 40-74
- 2 = Moderate: 75-124
- 3 = Severe: over 125
- E = Error: study too short or other problem

The display is covered by a protective film. Patients are instructed to leave the film in place and present to the dentist in the morning to have the results read and interpreted. Twenty-two consultants used the **BiteStrip** for 58 home screening tests conducted by the patients. This product received a 78% clinical rating.

Suggested Retail Cost

- \$45.00 each

Product Features

Consultants found **BiteStrip** useful for patients who exhibit clinical signs of bruxism (tooth attrition, abfraction lesions, muscle hypertrophy, etc.) but are unsure whether bruxism is a past or present issue. The test is simple in design, convenient and comfortable for the patient. Good dexterity is required to position the strip. The instructions for the practitioner were rated easier to understand than those for the patients. Patient acceptance and compliance were



Consultants' Comments

- ▶ "A good screening tool."
- ▶ "The test is self-contained and simple."
- ▶ "Strip will not adhere on patients with facial hair."
- ▶ "Patients were not compliant with the return visit to the office to have the device read."
- ▶ "DVD instructions would be useful for patients."
- ▶ "Include 2 tests in the kit - test could be repeated to confirm accuracy."

reported as significant issues. The scoring system was rated good at presenting the test results. While the **BiteStrip** scale quantifies the bruxing events, clinical judgment is necessary to determine what, if any, treatment is necessary for those patients with results indicating mild or moderate bruxism. Fifty-five percent of the consultants reported that the **BiteStrip** would add value to their practices, and 47% would purchase it.

Clinical Tips

- Wait one hour after use before the green sticker is removed. This allows the electro-chemical reaction to take place in order to clearly develop an image on the digital display. When it is removed in this manner, the display is permanent and the **BiteStrip** can be maintained as part of the patient's medical record.
- The display may not be visible or, at best, difficult to read, if the sticker is removed sooner than one hour after use. ■

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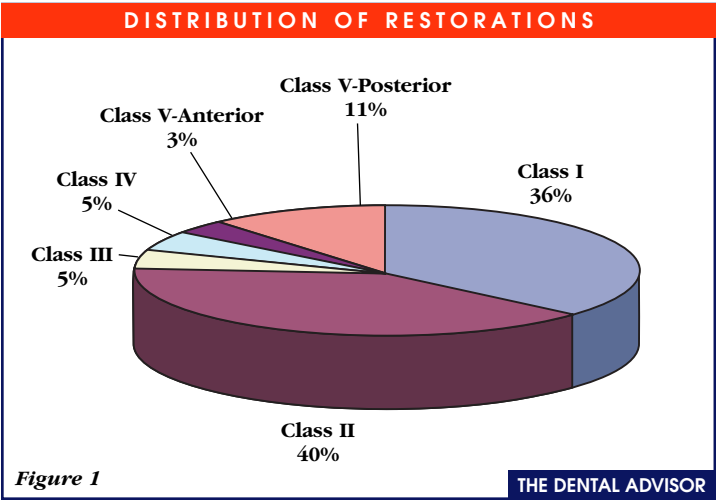
VOCO GmbH
888.658.2584
www.voco.com/us

Description

GrandiO is a nanohybrid composite for universal restorative use. The composite is filled 87% by weight and is compatible with any bonding agent. Light-curing time for two-mm increments is 20 seconds with a halogen or LED light. **GrandiO** is available in unit-dose capsules and syringes in 11 Vita shades plus a bleach shade, an incisal shade and two opaque shades. This product received a 96% clinical rating.

Suggested Retail Cost

- \$149.95/50 unit-dose caps kit
- \$229.95/5 syringe kit



Clinical Evaluation Protocol

- 132 restorations were placed in 76 patients.
- 88 restorations in 53 patients were available for recall at two years.
- Those recalled included 77 posterior and 11 anterior restorations (See **Figure 1**).
- Categories were rated on a 1-5 scale: 1 = poor, 2 = fair, 3 = good, 4 = very good, 5 = excellent.

Clinical Observations (See **Figures 2 and 3**)

Resistance to Fracture/Chipping

No chips or fractures were noted on 90% of **GrandiO** restorations during the second year of evaluation. Slight chips were seen on five posterior restorations, none of which required repair or replacement. Additionally, two adjacent Class IV restorations chipped, leaving a space interproximally that required repair.

Shade Match/Esthetics

The translucency of **GrandiO** resulted in restorations that blended well with the surrounding tooth structure. All restorations were completed using a single shade, which simplified placement compared to layered shades while producing excellent esthetics. Only one restoration was noted to be slightly yellow at two years. Five restorations were noted to have a rough or grainy surface texture. Overall, the appearance of the restorations was rated very good to excellent.

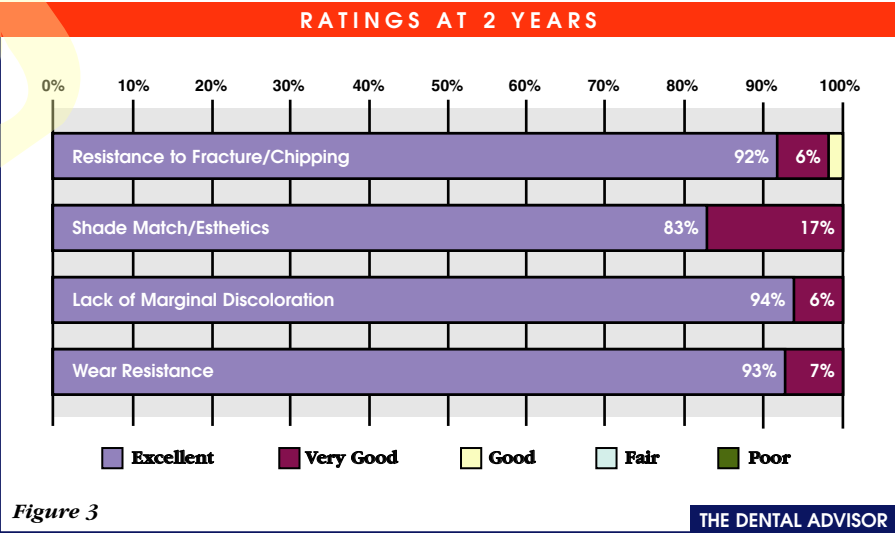
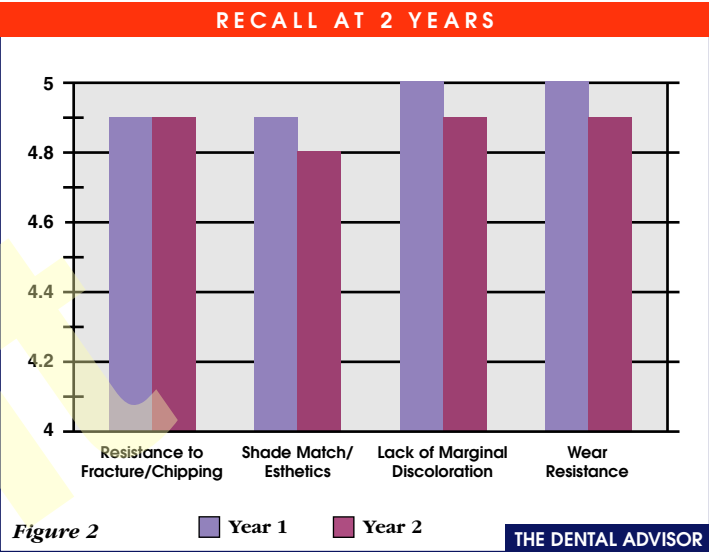
Lack of Marginal Discoloration

Marginal discoloration (microleakage) can be influenced by factors such as the restorative material, finishing procedures, bonding agent, and bonding technique.

A variety of bonding agents were used during placement of **GrandiO** restorations. Ninety-four percent of restorations showed no staining at the margin at two years.

Wear Resistance

All restorations were rated as excellent for wear resistance. Ninety-three percent of restorations had no visible signs of wear.



The editors and staff of **THE DENTAL ADVISOR** are pleased to announce the opening of our "Vision" – a new state-of-the-art facility, which will include an Education Center, a Biomaterials Research Center, and the administrative offices of Dental Consultants, Inc., publisher of **THE DENTAL ADVISOR**.

John M. Powers, Ph.D., senior vice president of Dental Consultants, Inc., will lead **THE DENTAL ADVISOR Biomaterials Research Center**. He and Ronald A. Yapp, M.S., Director of Research, will be joined by a staff of

talented research associates. They will customize research projects to fit the specific needs of dental manufacturers and provide them with data in a timely manner. This world-class research facility will help maintain **THE DENTAL ADVISOR** as a strong scientific and practical research publication.

THE DENTAL ADVISOR Biomaterials Research Center will evaluate the bond strength of dental adhesives and the mechanical and physical properties of resin composites, dental cements

and impression materials. Special evaluations of dental equipment and devices will also be performed at this new facility.

We look forward to discussing your research needs and invite you to submit questions to Dr. John M. Powers at: jpowers@dentaladvisor.com.



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KaVo Dental Corporation
888.528.6872 • 847.550.6800
www.kavousa.com

Description

KaVo PROPHYwiz is a 2.7-oz prophylaxis handpiece with a one-piece construction and 360° swivel. It is designed for use with standard disposable or metal prophylaxis angles. The handpiece integrates directly into any standard four-hole connection. No coupler or additional motor is needed. The recommended operating pressure is 26-40 psi with an operating speed of 2300-2800 rpm. The handpiece is autoclavable up to 135° C (275° F) and has a one-year warranty. **KaVo PROPHYwiz** was evaluated by 10 hygienists over a six-month period. No failures were reported. This handpiece received a 98% rating.

Suggested Retail Cost

- \$599.00/each
- \$1,647.00/3-pack

Equipment Features

KaVo PROPHYwiz runs smoothly, produces no vibration, and is exceptionally quiet, which optimizes patient comfort. The lightweight design and 360° swivel eliminate operator



Consultants' Comments

- ▶ "Excellent lightweight handpiece and very quiet."
- ▶ "Easy to attach to my existing delivery system."
- ▶ "The microtextured finish provided a good grip."
- ▶ "I experienced no hand fatigue while using this handpiece."

wrist and hand fatigue. The one-piece construction is especially well balanced. Hygienists and their doctors appreciated the simple integration: no need for an additional motor and simple connection to existing four-hole tubing. **KaVo PROPHYwiz** produces excellent torque at the recommended pressure and speed settings. The instructions for care are very simple. One hundred percent of consultants stated that **KaVo PROPHYwiz** was better than the hygiene handpiece they were currently using and all would recommend it to colleagues. ■

Product Update

Zenith Dental Products/DMG (800.662.6383 • www.zenithdental.com) has introduced **Honigum Heavy Body** and **Honigum QuadFast Heavy** in 1:1 automix cartridges for a Type 50 dispensing gun. Both packages have four, 50-ml auto-mix cartridges and 12 mixing tips. Previously, both heavy-body materials were only available in 390-ml, double-barrel cartridges for dispensing with the **MixStar** machine. The **Honigum Impression System** is a line of polyvinyl siloxane impression materials that has improved flow by using a microcrystalline wax matrix. Intraoral setting time is 3:00 for the regular set and 2:15 for the fast set. The impression materials are available in heavy-body, light-body and monophasic viscosities. **Honigum** was evaluated clinically and received a 5+ rating and Editors' Choice in THE DENTAL ADVISOR Vol. 18, No. 8, October 2001. The **Honigum QuadFast** was evaluated clinically and received a 5+ rating in Vol. 19, No. 8, October 2002. ■

Suggested Retail Cost

- \$89.50/Honigum Automix Heavy 50 ml
- \$89.50/Honigum Automix QuadFast Heavy 50 ml

THE DENTAL
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THE DENTAL ADVISOR is pleased to announce we have moved into our new state-of-the-art facility. This facility will be home to our administrative offices, the Biomaterials Research Center, the Education Center, and the Dental Technology Center. Although our phone numbers and email addresses have not changed, individual extensions are new. For a directory of new extensions please call us at (734) 665-2020.

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