

# More Beauty, Plenty of Brawn



— INTRODUCING —

# BruxZir<sup>®</sup>

**A N T E R I O R**

— S O L I D Z I R C O N I A —



The #1 prescribed brand of solid zirconia is available at dental laboratories nationwide. Over 9 million restorations delivered through the Authorized BruxZir<sup>®</sup> Laboratory network

## The BruxZir Phenomenon – A Clinician’s Perspective by Dr. Michael DiTolla

November 2010 is a milestone in dental history. That’s the first time that doctors prescribed more BruxZir restorations than PFM restorations. At the time, BruxZir Solid Zirconia was nearly two years old and PFMs were 50 years old. Here at the lab, it confirmed a trend that we had been observing during that time: The days of the PFM being the dentist’s everyday restoration were coming to a close. The sales of BruxZir never dipped below those of the PFM again; in fact, the gap between the two continues to grow wider as BruxZir grows and PFMs continue to shrink (see graph to right).

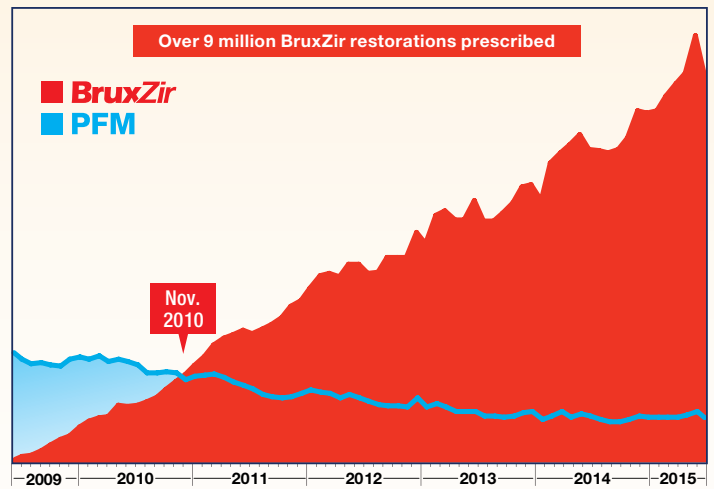
The rapid growth of BruxZir Solid Zirconia took us somewhat by surprise, as our original intention for the material was as a cast gold or metal occlusal PFM replacement. Almost every dentist I know agrees that cast gold is the finest indirect restorative material we have in dentistry. Unfortunately, almost every patient I know agrees that cast gold or a PFM with a metal occlusal is the least esthetic indirect restorative material we have in dentistry.

As the translucency and esthetics of BruxZir Solid Zirconia continue to improve, it has transitioned from being solely a posterior material to being an anterior material as well, meaning it can be used in almost any clinical situation. The biggest reasons for the rapid growth of BruxZir are high strength and fit. As a monolithic restoration with no porcelain on it, BruxZir Solid Zirconia has the lowest fracture rate of any restoration (besides cast gold) in our lab. It’s clear that dentists place strength very close to the top, if not at the top, of their list of desirable characteristics for an everyday crown & bridge material.

By far the most common comment we get from dentists about BruxZir restorations is how well they fit compared to most of the crowns they have used in the past. It took us a few months to figure out what these dentists really meant. It wasn’t that they used to cement crowns with open margins; it was that the emergence profile of BruxZir crowns blended with the tooth structure and soft tissue better than any material they had previously used (again, with the exception of cast gold).

The combination of fit, strength and improved esthetics has made BruxZir Solid Zirconia the most prescribed restoration in the lab, and it shows no signs of slowing down. Most recently, we have introduced BruxZir Anterior as the newest member of the BruxZir family. By increasing the amount of yttria in the zirconia oxide, we were able to create a material that competes esthetically with lithium disilicate, while still being 50 percent stronger than lithium disilicate. BruxZir Anterior means that solid zirconia can now be your restoration of choice in the anterior just like it is in the posterior.

### BruxZir vs. PFM – Units Produced per Month



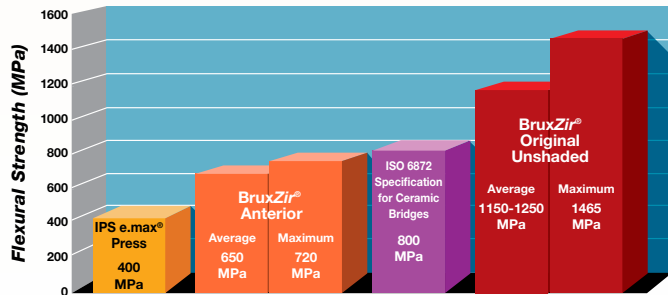
Dr. Michael C. DiTolla

# BruxZir® Anterior, significantly more translucent for natural vitality

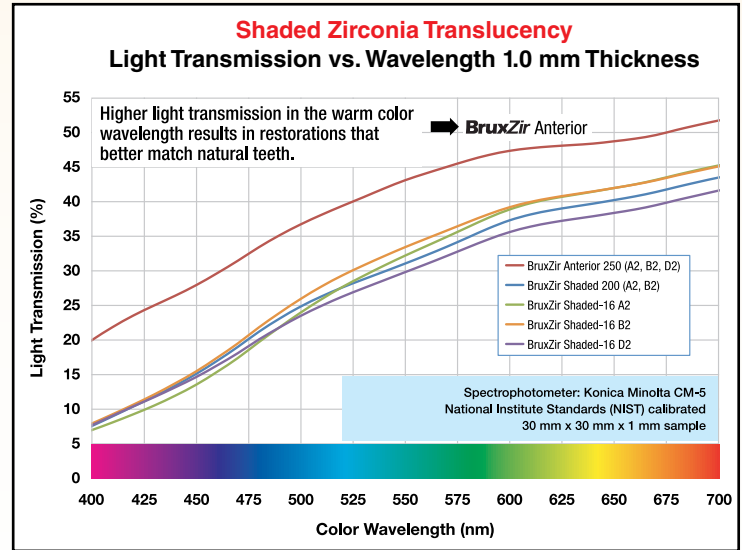
**BruxZir® Anterior** is the latest advancement in the BruxZir Solid Zirconia product line. This highly esthetic restorative material is designed specifically to satisfy the esthetic and functional requirements of the anterior region of the mouth. Exhibiting an average flexural strength of 650 MPa with translucency and color similar to natural dentition, BruxZir Anterior is an ideal, esthetic solution for your anterior and premolar crowns or 3-unit bridges.



BruxZir Anterior restorations exhibit a substantially higher light transmission in the warm color wavelengths than any previous version of BruxZir Solid Zirconia. In the backlit restorations above, note how the BruxZir Anterior crowns closely match the vital translucency of natural dentition.



Flexural Strength Testing per ISO 6872 specification.



BruxZir Shaded zirconias allow for improved shade consistency, exhibiting a higher translucency when compared to other pre-shaded zirconias.



These Captek™ crowns had been in place for 15 years and the patient exhibited a possible metal allergy. Though the crowns had served her well, she was not pleased with the visible margins and was happy to hear that there are now several more esthetic options available.



The underlying preparations were tetracycline stained and would show through had IPS e.max® HT (High Translucency) ingots been used. The case was restored with IPS e.max MT (Medium Translucency) and BruxZir Anterior crowns, which combine an esthetic level of translucency with the ability to block out discolorations.



The crowns on tooth #6, #7 and #8 are BruxZir Anterior and the crowns on tooth #9, #10 and #11 are IPS e.max. Due to the increased translucency of BruxZir Anterior you can see that these solid zirconia crowns come much closer to matching the proven esthetics of IPS e.max.



A patient presented with the chief complaint of wanting to replace the failing composite on one of their maxillary incisors. After noting the minimal wear and absence of para-functional habits, caries were excavated, a preparation was made, and then a BruxZir Anterior crown was delivered.



A single-unit BruxZir Anterior crown was seated on tooth #9. Matching a shade in the esthetic zone has been a difficult task for dentists, and BruxZir Anterior has moved the bar ahead in terms of making that achievable with monolithic zirconia. We might be closer than most think to the day where monolithic zirconia crowns are the treatment of choice for restorations in the esthetic zone.





# Authorized **BruxZir** Laboratories

Call for case pickup from your preferred laboratory. (More labs listed behind Rx offers).



LABORATORY	CITY	STATE	PHONE	LABORATORY	CITY	STATE	PHONE
Burdette Dental Lab Inc.	Birmingham	AL	800-624-5301	Bayside Ceramics Dental Lab	South Miami	FL	305-663-5810
Capitol Dental Designs	Montgomery	AL	334-269-2700	Carlos Ceramics Dental Lab	North Miami Beach	FL	305-940-4040
Dothan Crown & Bridge	Dothan	AL	334-792-0365	DigiTech Dental Restorations	Doral	FL	888-336-1301
Mobile Dental Design, Inc.**	Mobile	AL	251-634-2445	Doral Dental Lab	Miami	FL	305-740-6263
Oral Arts Dental Laboratories, Inc.**	Huntsville	AL	866-590-9435	DSG - Clearwater	Clearwater	FL	800-237-1723
Oral Arts Dental of Mobile	Mobile	AL	800-327-4047	Florida Laboratories	Orlando	FL	800-262-2547
Parkway Dental Lab	Opelika	AL	800-239-3512	GPS Dental Lab Inc.	Orlando	FL	877-287-5977
Phillips Dental Innovations	Daphne	AL	251-621-1690	Gregson Dental Studio	The Villages	FL	352-561-4186
Scrimshire Laboratories	Huntsville	AL	800-633-2912	JC Dental Lab	Hialeah	FL	305-824-5156
Tuscaloosa Dental Arts	Tuscaloosa	AL	205-562-3231	Julian Ceramic Dental Lab	Doral	FL	305-468-1414
Walker Dental Laboratory, Inc.	Decatur	AL	800-727-0705	Knight Dental Group	Oldsmar	FL	800-359-2043
Creative Dental Lab	Harrison	AR	800-741-4642	Technics Dental Laboratory	Margate	FL	800-322-3485
Green Dental Laboratories, Inc.**	Heber Springs	AR	800-247-1365	Winter Springs Dental Lab	Winter Springs	FL	800-952-5423
Quality Dental Lab	Jacksonville	AR	501-982-8721	Bruce Jackson Dental Laboratory	Aalto	GA	770-869-0052
Adams Dental Laboratory	Mesa	AZ	480-644-8878	Daniel Dental Laboratory	Macon	GA	478-997-0201
Continental Laboratories	Phoenix	AZ	800-695-0155	Digital Dental Laboratory	East Ellijay	GA	706-669-0941
Creative Dental Laboratory, Inc.	Scottsdale	AZ	480-948-0456	Life Like Inc.	Kennesaw	GA	800-241-0632
Denticon	Nogales	AZ	800-284-7602	New Image Dental Laboratory**	Morrow	GA	800-233-6785
Lafayette Dental Lab	Phoenix	AZ	800-996-9482	Oral Arts Dental Lab Georgia**	Chamblee	GA	800-229-7645
Lakeview Dental Ceramics	Lake Havasu City	AZ	928-855-3388	Ridge Craft Dental Laboratory	Langrange	GA	800-516-0281
New West Dental Ceramics**	Lake Havasu City	AZ	800-321-1614	Seckler Crown Dental Lab	Atlanta	GA	770-804-1005
Phoenician Dental Studios	Gilbert	AZ	480-279-2977	The Lab 2000, Inc.	Columbus	GA	800-239-3947
Progressive Dental Services Laboratory	Phoenix	AZ	800-516-0789	Vital Ceramics	Roswell	GA	770-992-8843
Sun State Dental Creations	Glendale	AZ	623-487-1545	Esthetic Dental Designs	Honolulu	HI	808-266-0351
A&M Dental Laboratories**	Santa Ana	CA	800-487-8051	Eclipse Dental	Waterloo	IA	319-232-6020
Advanced Dental Technology**	Chula Vista	CA	619-656-9422	Oral Arts Laboratory Iowa	Dubuque	IA	800-747-3522
Alien Milling Technologies	San Bernardino	CA	909-562-0069	Eastside Crown & Bridge Inc.	Pocatello	ID	208-237-2525
Atlas Dental	Gardena	CA	866-517-2233	McClure Dental Lab Design Inc	Meridian	ID	208-884-0636
Backer Dental Lab	Bakersfield	CA	614-847-9980	Accudent Dental Laboratory	Lansing	IL	800-895-3565
BDL Prosthetics**	Irvine	CA	800-411-9723	Artistic Dental Studio, Inc.	Bolingbrook	IL	800-755-0412
Berkeley Dental Laboratory	Berkeley	CA	510-525-0135	CeraMax Dental Art	Elmhurst	IL	855-237-2629
Beverly Hills Dental Studio	Beverly Hills	CA	800-215-5544	Dental Arts Laboratories, Inc.	Peoria	IL	800-322-2213
Bigler Dental Ceramics, Inc.**	Tustin	CA	714-832-9251	Dental Arts Lincolnshire	Lincolnshire	IL	800-779-5089
Continental Dental Laboratories	Torrance	CA	800-443-8048	Distinctive Dental Studio, Ltd.	Naperville	IL	800-552-7890
Creative Porcelain	Oakland	CA	800-470-4085	Kobler Enterprises Inc. Dental Laboratory	Mount Prospect	IL	847-788-1426
Crowns R Us	Brea	CA	866-315-8338	Prosthotech**	Sugar Grove	IL	630-466-8333
Custom Dental Laboratory	Fountain Valley	CA	877-466-3522	Quad City Dental Laboratory Inc.	Moline	IL	888-797-5707
Dental Laboratory Concepts	Hermosa Beach	CA	866-366-7070	Rock Creek Dental Ceramics	O'Fallon	IL	618-632-2233
Dental Masters Laboratory	Santa Rosa	CA	800-368-8482	Rockert Dental Studio	Wheaton	IL	800-665-1401
Denton Dental Laboratory	Santa Ana	CA	714-426-2930	Vitality Dental Arts	Elgin	IL	800-399-0705
Dura-Metrics, Inc.	Santa Rosa	CA	707-546-5138	Dental Art Solution	Indianapolis	IN	317-373-6629
G&H Dental Arts, Inc.**	Torrance	CA	800-548-3384	Dental Professional Laboratories	Merrillville	IN	800-348-1010
Glidewell Laboratories**	Newport Beach	CA	800-854-7256	Elite Dental Laboratory	Rochester	IN	574-223-4982
Great Smiles Dental Services Inc.	San Bernardino	CA	909-885-7600	Image Dental Arts	Fort Wayne	IN	866-496-1160
Greenhaven Dental Laboratory	Elk Grove	CA	916-421-7777	Ito & Koby Dental Studio	Indianapolis	IN	800-288-6684
Hatzakortzian Dental Lab	Rialto	CA	909-562-0001	Lumident, Inc.	Indianapolis	IN	866-586-4336
Hogan Dental Laboratory	Huntington Beach	CA	714-842-0466	Professional Dental Lab	Elkhart	IN	574-294-3631
Ikon Dental Design	San Leandro	CA	510-430-9659	Roy Dental Laboratory	New Albany	IN	877-769-3368
ITec Dental Laboratory	Fullerton	CA	888-341-6333	Aesthetic Aim Dental Lab	Wichita	KS	316-263-1007
Juno Dental Lab	Milpitas	CA	408-262-5030	Heumann & Associates Dental Laboratory	Topeka	KS	800-255-2412
Killian Dental Ceramics	Irvine	CA	800-317-7100	Heumann Dental Laboratory	Fairway	KS	800-888-1925
Mr. Crown Dental Studio	Santa Ana	CA	800-515-6926	Pearce-Turk Dental Laboratory	Wichita	KS	800-835-2776
Nash Dental Lab, Inc.	Temecula	CA	877-528-2522	Highland Dental Lab	Louisville	KY	502-451-2205
NEO Milling Center**	Cerritos	CA	562-404-4048	Keller Laboratories, Inc.	Louisville	KY	800-292-1894
Noel Laboratories, Inc.	San Luis Obispo	CA	800-575-4442	Russellville Dental Lab	Russellville	KY	877-714-6595
O-TEC Dental Laboratory	Hawthorne	CA	800-536-6832	CDS Dental Studio**	Bossier City	LA	800-259-7775
OD's Dental Laboratory	Tustin	CA	714-435-8082	Irwin Dental Lab	Baton Rouge	LA	225-755-7006
Paramount Dental Studio	Garden Grove	CA	714-903-1477	Nicosia Dental Lab	Violet	LA	504-915-4879
Perfect Smile Dental Ceramics, Inc.	San Diego	CA	877-729-5282	Pfisterer-Auderer Dental Lab	Mettairie	LA	800-288-8910
Polaris Dental Laboratory**	Anaheim	CA	866-937-1563	Advanced Dental Technologies	Stoneham	MA	800-243-2235
Precision Ceramics Dental Laboratory**	Montclair	CA	800-223-6322	Arcari Dental Laboratory	Wakefield	MA	781-213-3434
Riverside Dental Ceramics**	Riverside	CA	800-321-9943	Dental Studios of Western Massachusetts, Inc.	West Springfield	MA	413-787-9920
Robertson Dental Lab	Lompoc	CA	800-585-3111	Northshore Dental Laboratories, Inc.	Lynn	MA	800-338-5850
San Ramon Dental Lab	San Ramon	CA	800-834-4522	Yankee Dental Arts Agawam Laboratory	Agawam	MA	800-732-2891
Solitaire Smile Dental Laboratory LLC	San Diego	CA	619-819-7526	Elite Dental Lab	Cockeysville	MD	410-667-7773
Trident Dental Laboratories	Hawthorne	CA	800-221-4831	Microdent Dental Laboratories	Gaithersburg	MD	301-519-0034
Williams Dental Laboratory	Gilroy	CA	800-713-5390	Nichols Laboratory Inc.	Hebron	MD	410-543-8264
Dahlin Dental Laboratory	Lakewood	CO	800-536-8241	Staggs Dental Lab	McCoolle	MD	301-786-4368
Diamond Dental Studio	Byers	CO	866-431-5111	Eliason Dental Lab	Portland	ME	800-498-7881
Gnathodontics, Ltd.	Lakewood	CO	800-234-9515	Port City Dental Lab Inc.	Windham	ME	207-892-2386
JP Dental Lab	Grand Junction	CO	970-243-2025	Apex Dental Milling**	Ann Arbor	MI	866-755-4236
Mountain Springs Dental Laboratory	Colorado Springs	CO	719-576-3661	Artistic Dental Lab**	Allen Park	MI	800-437-3261
Professional Dental Ceramics	Arvada	CO	303-759-5189	Caruso Dental Laboratory	Livonia	MI	734-425-8700
Vitality Dental Arts	Boulder	CO	800-399-0705	Coulter Dental Lab	Flint	MI	810-733-3310
Zinser Dental Lab, Inc.	Westminster	CO	303-650-1994	D.H. Baker Dental Laboratory	Traverse City	MI	800-946-8880
Cosmetic Dental Studio	Newtown	CT	203-426-9310	Davis Dental Laboratory	Wyoming	MI	800-253-9227
Novadent Technologies	Windsor	CT	860-688-4131	Davison Dental Lab	Flint	MI	800-340-6971
Yankee Dental Arts Laboratory	Wethersfield	CT	800-447-3941	Dental Art Laboratories	Lansing	MI	800-444-3744
Dodd Dental Laboratories	New Castle	DE	800-441-9005	Expertec Dental Laboratory	Westland	MI	734-641-9999
4 Points Dental Designs	Saint Petersburg	FL	727-329-8981	K&M Dental Lab	Lansing	MI	517-394-1975
All Smiles Dental Lab	Englewood	FL	941-662-1206	LaDouce Dental Lab	Saginaw	MI	989-799-0472
Bayshore Dental Studio	Tampa	FL	813-890-9010	Nelson Dental Laboratory	Rochester Hills	MI	800-570-2131

# Authorized **BruxZir** Laboratories

LABORATORY	CITY	STATE	PHONE	LABORATORY	CITY	STATE	PHONE
Olson Dental Laboratory.....	Clinton Township	MI	800-482-3166	Applegate Dental Ceramics.....	Medford	OR	541-772-7729
Patriot Dental Laboratory.....	Prescott	MI	855-522-2121	C&J Dental Laboratory.....	Gresham	OR	503-465-6553
Premier Dental Lab.....	Grand Rapids	MI	616-454-8600	Ceramics West Dental Lab.....	Tigard	OR	503-620-9245
Redpath Dental Lab.....	Davisburg	MI	248-620-7901	Abel Dental Laboratory.....	Uniontown	PA	800-524-1106
Spartan Dental Lab.....	Lansing	MI	800-678-2227	Albensi Laboratories**.....	Irwin	PA	800-734-3064
Studio 2 Dental.....	Kentwood	MI	616-957-2140	D&L Dental Studio.....	Pennel	PA	215-757-4246
U.S. Dental Laboratories.....	Southfield	MI	248-557-8029	DeLux Dental Laboratory.....	Reading	PA	800-541-5642
Workhorse Dental Lab.....	Dexter	MI	734-808-0010	Dental Services Group of Pittsburgh.....	Pittsburgh	PA	800-322-7080
Xcel Dental Studio.....	Flint	MI	810-733-0909	Innovative Dental Arts.....	North Huntingdon	PA	866-305-5434
Advanced Dental Lab.....	Fridley	MN	763-571-4887	JSM Dental Milling.....	Irwin	PA	724-861-5000
Boos Dental Laboratory.....	Golden Valley	MN	800-333-2667	Maverick Dental Laboratories.....	Monroeville	PA	866-294-7444
Custom Crown Craft.....	Alexandria	MN	800-568-5414	Muth & Mumma Dental Laboratory.....	Harrisburg	PA	800-932-0584
Dental Services Group.....	Minneapolis	MN	800-259-3717	Newtech Dental Laboratories.....	Lansdale	PA	866-635-5227
Dimension Dental Design.....	Hastings	MN	888-793-3682	R&K Dental Lab, Inc.....	Friedens	PA	814-445-7561
Harrison Dental Studio.....	West St. Paul	MN	800-899-3264	Shu Dental Laboratory, Inc.....	Morrisville	PA	800-929-9846
Small Ceramics Dental Lab.....	La Crescent	MN	507-895-2307	Smile Renovation Studio.....	Kingston	PA	570-687-0049
Thoele Dental Laboratory.....	Waite Park	MN	800-899-1115	Thayer Dental Laboratory.....	Mechanicsburg	PA	800-382-1240
Trachsel Dental Studio**.....	Rochester	MN	800-831-2362	Windl Dental Laboratory.....	New Castle	PA	800-645-4576
Twin Cities Laboratories.....	Falcon Heights	MN	800-328-2568	Young Dental Laboratory.....	Philadelphia	PA	866-888-1668
Udell Dental Laboratory.....	St. Louis Park	MN	800-248-9943	Joe Fargione Dental Studio.....	Bluffton	SC	843-707-1042
Becker Dental Laboratory, Inc.....	Herculaneum	MO	800-931-6691	Sherer Dental Laboratory.....	Rock Hill	SC	800-845-1116
Creative Dental Arts, Inc.....	Raytown	MO	800-633-4083	Associated Dental Lab Inc.....	Rapid City	SD	605-343-7437
Cutting Edge Dental Lab.....	Kansas City	MO	816-741-2200	Bauer Dental Studio.....	Mitchell	SD	800-952-3334
Keller Laboratories, Inc.**.....	Fenton	MO	800-325-3056	ProSmiles Dental Studio.....	Rapid City	SD	605-791-0652
Mallow-Tru Dental Studio.....	Lee's Summit	MO	800-444-3685	Dental Prosthetics Lab.....	Clarksville	TN	931-647-2917
Midwest Dental Laboratory.....	St. Louis	MO	800-325-8011	Functional Esthetics.....	Nashville	TN	615-385-2123
Stewart Dental Laboratories.....	Columbia	MO	866-724-5509	Hermitage Dental Lab.....	Hermitage	TN	615-889-4949
Verch Dental Ceramics.....	Ellisville	MO	888-868-3724	Peterman Dental Laboratory.....	Smyrna	TN	800-476-1670
Western Dental Arts.....	Billings	MT	406-652-1652	Rogers' Dental Laboratories.....	Athens	TN	800-278-6046
Carolina Outsource Inc.....	Charlotte	NC	704-814-0644	Affordable Cosmetic Laboratories.....	Arlington	TX	860-258-0678
Drake Precision Dental Laboratory.....	Charlotte	NC	800-476-2771	C&J Dental Lab.....	El Paso	TX	915-564-3800
Natural Ceramics Inc.....	Fayetteville	NC	910-425-8296	Centric Dental Laboratory, Inc.....	Bullard	TX	800-522-1193
Real Time Dental Lab.....	Rocky Mount	NC	877-830-4770	Concert Dental Lab.....	Richardson	TX	800-449-3514
Sikes Dental Studios Inc.....	Charlotte	NC	800-932-9971	Crystal Dental Ceramics.....	Richardson	TX	972-680-1660
Sirona InfiniDent.....	Charlotte	NC	800-659-5977	Dale Dental, Inc.**.....	Richardson	TX	888-438-3253
Sunbelt Dental Lab.....	Charlotte	NC	704-527-6277	Dallas Milling Center.....	Garland	TX	972-271-3399
Kel-Cap LLC.....	Mandan	ND	701-663-3005	Dental Dynamics Laboratory Inc.....	Arlington	TX	800-640-8112
Minot Dental Laboratory.....	Minot	ND	800-860-3404	Dental Plus Laboratory.....	Garland	TX	972-271-3399
Precision Dental Laboratories, Inc.....	Fargo	ND	800-568-4145	Mascola Esthetics.....	San Antonio	TX	877-490-5533
Integrity Dental Arts.....	Kearney	NE	308-698-2200	Natural Arts Dental Laboratory.....	San Antonio	TX	800-322-6235
Kiess Kraft Dental Laboratory.....	Omaha	NE	800-553-9522	Oral Designs Dental Laboratory, Inc.**.....	San Antonio	TX	800-292-5516
Reflections Dental Laboratory, Inc.....	Lincoln	NE	800-645-8644	PCB Dental Lab.....	Richardson	TX	972-671-3894
Spectrum Dental Science Inc.....	Union	NE	888-263-4930	Reliable Dental Laboratory.....	Dallas	TX	972-272-5511
H&O Dental Laboratory.....	Manchester	NH	800-543-4312	Rose Dental Laboratory.....	Houston	TX	281-565-3600
Excel Laboratories.....	Princeton	NJ	800-438-3384	Stern Empire Laboratories**.....	Houston	TX	800-229-0214
Laxmi Dental Lab USA Inc.....	Iselin	NJ	732-372-4412	Stern Tyler Dental Laboratory.....	Tyler	TX	800-926-1318
Preferred Dental Laboratory.....	Roseland	NJ	800-548-2613	AccuDent Dental Lab.....	West Jordan	UT	801-231-6161
R&R Modeling.....	Maywood	NJ	201-546-8025	Crown Laboratories Inc.....	Sandy	UT	800-574-1911
St. Mary Dental Lab.....	Lyndhurst	NJ	201-460-7552	Crystarr Dental Design.....	Salt Lake City	UT	800-343-2488
TSR Dental Services.....	Milltown	NJ	732-979-8499	Epic Dental Studios**.....	American Fork	UT	801-756-1117
Ceratek Dental Laboratory.....	Roswell	NM	575-623-7533	Evolution Dental Studio.....	Draper	UT	801-432-7446
Ideal Laboratories.....	Albuquerque	NM	800-998-6684	Swift Lab.....	South Jordan	UT	866-505-9090
Sterling Dental Lab Inc.....	Las Cruces	NM	575-644-4485	Treasure Dental Studio.....	Salt Lake City	UT	800-358-6444
Core 3D Centres, LLP.....	Las Vegas	NV	888-750-9204	Via Digital Solutions.....	Draper	UT	888-484-6842
Crown Dental Lab, LLC.....	Las Vegas	NV	702-432-4012	Art Dental Lab.....	Chantilly	VA	703-378-8555
Las Vegas Dental Studio.....	Las Vegas	NV	800-455-1598	Marine Dental Lab.....	Annandale	VA	703-256-3601
Las Vegas Digital Dental Solutions**.....	Las Vegas	NV	800-936-1848	NexTek Dental Studios.....	Manassas	VA	800-678-7354
Las Vegas Esthetics.....	Las Vegas	NV	800-711-6011	Nu Technologies Dental Laboratory.....	Powhatan	VA	804-379-9939
Studio 360: The Dental Lab.....	Las Vegas	NV	866-963-6885	Quality Dental Lab - VA.....	Virginia Beach	VA	757-497-8211
Americus - New York.....	Jamaica	NY	800-222-8980	The Point Dental Studio, LLC.....	West Point	VA	804-337-5477
CAB Dental Studio.....	Brooklyn	NY	347-450-3368	Best Dental Lab.....	Auburn	VA	253-939-3242
Creo Dental.....	New York	NY	212-302-3860	Choice Dental Laboratory.....	Federal Way	WA	253-946-0903
Crown Biomedical Design Inc.....	Harrison	NY	203-353-8688	Pacific Dental Arts.....	Olympia	WA	877-438-1882
Dental Couture.....	New York	NY	212-695-9372	Seabrook Dental Laboratory.....	Edmonds	WA	800-693-7487
DP/Mt. Vernon Dental Laboratory.....	Mt. Vernon	NY	800-431-1797	Ziemek Aesthetic Dental Lab**.....	Olympia	WA	866-943-6357
Elegant Dental Laboratories.....	Brooklyn	NY	877-335-5221	Gessler's Dental Laboratory.....	Tomahawk	WI	715-453-4383
Elite Margins.....	Holbrook	NY	631-874-9455	Integrated Dental Milling Centers.....	Greendale	WI	414-421-6695
GP Dental Lab.....	Brooklyn	NY	718-339-4995	Lord's Dental Studio**.....	DePere	WI	800-821-0859
MobileTek Dental Labs.....	New York	NY	212-951-7325	Nakoma Dental Laboratory.....	Lodi	WI	855-591-6975
Sciubba Ceramic Laboratory.....	Albany	NY	518-339-9440	Popp Dental Lab.....	Greendale	WI	414-421-6695
Smile Design Dental Laboratory.....	Port Washington	NY	516-472-0890	Pro-Ceram Dental Laboratory.....	Wausau	WI	715-845-1199
Town & Country Dental Studios.....	Freeport	NY	516-868-8641	Saber Dental Studio.....	Waukesha	WI	800-365-3210
AccuTech Dental Lab.....	Westerville	OH	614-751-9888	Winnebago Dental Lab.....	Appleton	WI	920-735-1208
Cooperative Dental Lab.....	Cleveland	OH	216-398-0893	Standard Dental Laboratory.....	Clarksburg	WV	800-842-6265
Dresch/Tolson Dental Laboratory.....	Sylvania	OH	800-843-4110	Tincher/Butler Dental Laboratory.....	South Charleston	WV	800-225-4699
Form & Function Laboratory.....	North Royalton	OH	800-423-8453				
John Hagler, CDT.....	New Albany	OH	614-560-5667				
Kriaris Dental Lab.....	Bay Village	OH	440-892-3200				
New Era Dental Arts, LLC.....	Sylvania	OH	800-971-8201				
Northwest Ceramics Inc.....	Columbus	OH	614-451-9597				
ROE Dental Laboratory.....	Garfield Heights	OH	800-228-6663				
Salem Laboratories.....	Cleveland	OH	800-747-5577				
Simon DeChatlet Dental Laboratory.....	Miamisburg	OH	800-448-6684				
United Dental Labs.....	Tallmadge	OH	800-367-0970				
Express Dental Laboratory.....	Norman	OK	405-217-2282				
Flud Dental Laboratory.....	Tulsa	OK	800-331-4650				
Imperial Crowns Dental Laboratory.....	Broken Arrow	OK	866-207-0858				
International Dental Arts.....	Tulsa	OK	800-741-0002				
Tom Yancy & Associates.....	Tulsa	OK	800-226-9887				

**INTERNATIONAL LABS SERVICING THE U.S.**

Smith-Sterling Dental Laboratories**.....	Cartago	Costa Rica	800-395-8205
EPS Dental Studio.....	Cuernavaca	MO, Mexico	347-246-5203
Pacific Edge Dental Laboratories**.....	Baja California	Mexico	800-889-9323

**\*\*An Authorized BruxZir® Milling Center**



## BruxZir Solid Zirconia Crowns and Bridges 3-year Clinical Performance Report

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THE DENTAL ADVISOR  
www.dentaladvisor.com

RATINGS:  
Excellent +++++  
Very Good +++++  
Good +++

### LONG-TERM CLINICAL PERFORMANCE

#### Glidewell Laboratories

www.glidewelldental.com

#### Description

A total of 822 **BruxZir Solid Zirconia Crowns and Bridges** have been placed over the past four years. They included single crowns (87%) and three- and four-unit bridges (13%). The restorations were cemented with adhesive and self-adhesive resin cements.

#### Purpose

The purpose of this evaluation was to report the clinical performance of **BruxZir Solid Zirconia Crowns and Bridges** at three years.

#### Clinical Evaluation Protocol

At recall, 632 **BruxZir** restorations were evaluated, including crowns; three- and four-unit bridges; and implant-supported crowns and bridges (Figure 1). The majority (88%) of the restorations were fabricated by *Glidewell Laboratories*, while 12% were fabricated by Apex Dental Milling. Of the 632 recalled restorations, 33% were up to 3 years old, 46% were 3-4 years old and 21% were over 4 years old (Figure 2).

**BruxZir** restorations were evaluated in the following categories: esthetics, resistance to fracture or chipping, resistance to marginal discoloration, wear of zirconia and opposing dentition, and retention. The restorations were evaluated on a 1-5 rating scale: 1=poor, 2=fair, 3=good, 4=very good, 5=excellent.



BruxZir, No. 3 at 3 years

#### Consultants' Comments

*"Beautiful Crown. Perfect fit and no adjustments."*

*"One of the nicest implant crowns I have seen."*

*"BruxZir is a great choice for worry-free crowns and a good value."*

*"BruxZir is my go-to restoration for posterior teeth; it looks good and I know it will last."*

*"I have been using BruxZir for four years or more and I have not been disappointed – neither have my patients."*

FIGURE 1

Distribution of BruxZir Solid Zirconia Crowns and Bridges at Three-year Recall.

- Crowns
- Bridges (3 and 4 units)
- Implant-supported Crowns and Bridges

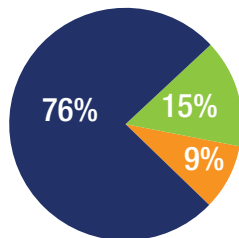
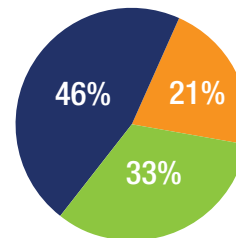


FIGURE 2

Age of BruxZir Solid Zirconia Crowns and Bridges at Three-year Recall.

- Less than 3 years old
- 3 to 4 years old
- More than 4 years old



## Clinical Observations

### Esthetics

The esthetics of **BruxZir** was rated excellent (Figure 3) when one considers the consistency of the shade and compares the esthetics to other monolithic zirconia restorations. Other zirconia restorations are generally more opaque and lack opalescence. **BruxZir** restorations were not compared with esthetic ceramic restorations resulting from layered porcelain. **BruxZir** restorations are perfect for patients desiring more uniform and whiter teeth like a B1 shade. The new **BruxZir 16** pre-shaded zirconia, recently introduced by *Glidewell Laboratories* could further improve esthetics.

### Resistance to Fracture/Chipping

The chipping or fracture of **BruxZir** single crowns has been practically non-existent (Figure 3). One second molar crown did fracture, but it was likely due to lack of occlusal clearance and reduction. Having less than a 1 mm of clearance is not recommended for molars. None of the three- or four-unit bridges have fractured.

### Resistance to Marginal Discoloration

None of the restorations exhibited any marginal discoloration at four years (Figure 3). The opacity of the crowns may help camouflage any staining or microleakage.

### Wear Resistance

Almost no wear was observed on **BruxZir** restorations and very minimal wear was observed on opposing natural dentition at four years (Figure 3). More wear was noted on gold crowns opposing **BruxZir** restorations.

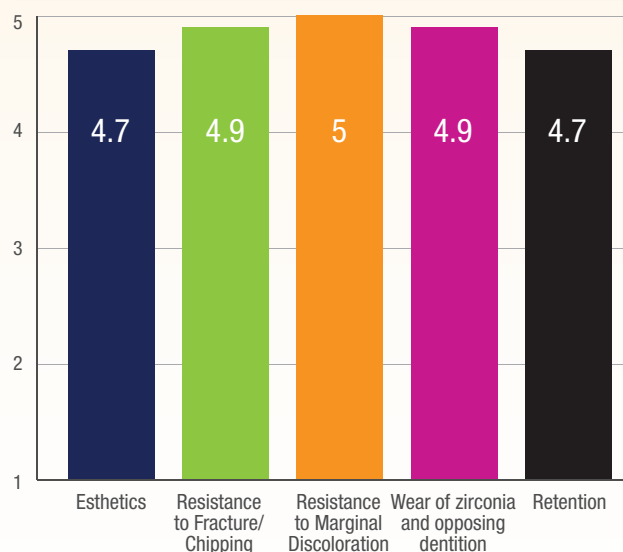
### Retention

Twenty-seven out of the 822 **BruxZir** crowns debonded (3%) and required recementation over the evaluation period (Figure 3). This debonding rate is slightly higher (3% vs 2%) when compared to non-zirconia crowns that THE DENTAL ADVISOR has documented over time.

## Conclusions

Over a three-year evaluation period, **BruxZir Solid Zirconia Crowns and Bridges** have proven to be excellent restorations with respect to esthetics and dependability. **BruxZir Solid Zirconia Crowns and Bridges** received a 97% clinical performance rating.

FIGURE 3 Results of BruxZir Solid Zirconia Crowns and Bridges at Three-year Recall.



### THE DENTAL ADVISOR – Clinical Recommendations

- *THE DENTAL ADVISOR highly recommends the use of **BruxZir** for three- and four-unit bridges.*
- *Data on file at THE DENTAL ADVISOR indicate that using a zirconia primer improves the bond strength of adhesive and self-adhesive resin cements to zirconia by up to 50%. It is advisable to prime zirconia crowns prior to cementation.*
- *It is highly recommended for posterior crowns and three- and four-unit bridges as well as implant-supported crowns and bridges.*



See inside for the expanding list of  
Authorized BruxZir Labs

**BruxZir**<sup>®</sup> Solid Zirconia is the **#1** prescribed brand of solid zirconia, with more than 9 million restorations prescribed in 6 years.

### BruxZir<sup>®</sup> Anterior Preparation Guidelines

