ABSOLUTE DENTAL SERVICES
1994

A Clinician's Guide to Restoring
Screw Retained Full Zirconia Implant Crowns

ABSOLUTE DENTAL SERVICES

NOBELPROCERA® FCZ & ASC PROTOCOL

Nobel Biocare®

Nobel Biocare®

www.AbsoluteDentalLab.com

NobelProcera® Full Contour Zirconia (FCZ)

What is NobelProcera® FCZ?
This innovative technology allows fabrication of a monolithic zirconia screw retained implant crown. The process eliminates the need for cement and therefore eradicates possible cement residue. This has been shown to be a common cause of inflammatory soft tissue complications* and in most cases the number one reason for implant failure. The system features a metal adapter into the implant creating a very strong and lasting connection.

Fully retrievable

No cement cleanup

Monolithic design

No chipping

Metal interface

Economical Anterior hybrid as well as Posterior application

FCZ System Features

- Extremely efficient and stress-free chairside protocol
- No cementation equates to no implant failures due to cement residue
- Available on all Nobel Conical Connection implants
- Design file archiving allows for impression-less remake if ever required
- Metal Adapter creates strong connection between implant and abutment-crown
- Monolithic design minimizes chipping under function
- Compatible with all Vita shades

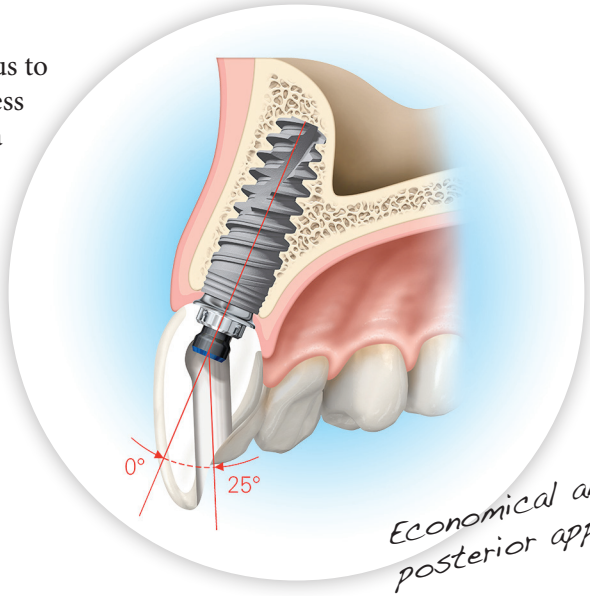
Request Nobel Conical Connection implants to allow for this technology!

*Peri-Implant Mucositis and Peri-Implantitis:
A Current Understanding of Their Diagnoses and Clinical Implications,
developed under the direction of the Task Force on Peri-Implantitis and approved by the Board of Trustees of the American Academy of Periodontology. *J Periodontol* 2013;84:436-443.

NobelProcera® Angulated Screw Channel Correction (ASC)

What is NobelProcera® ASC?
This technology enables the restorative team to re-angulate the screw access channel without the use of a correction abutment. Combining the ASC & FCZ technologies allows us to design Hybrid Anterior as well as Monolithic Posterior zirconia screw retained crowns. ASC allows the surgeon to place the implant in a more ideal position without having to adjust for access. This allows for a screw retained option without compromise.

ASC technology allows us to re-angulate screw access without the use of a correctional abutment



Economical anterior & posterior application

FCZ System Features

- Allows for a more ideal implant placement without the need to consider screw access
- Enables screw retained options in both anterior and posterior applications
- Adjust screw access up to 25 degrees
- Rotate access up to 360 degrees to manage accessibility
- Traditional Nobel Biocare torque settings
- Omnigrip™ screwdriver fits standard Nobel Biocare torque wrench

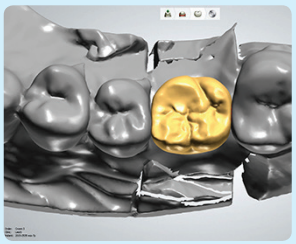
Full Contour Zirconia Case Flow

Case courtesy of Dr. Thomas Leech

Posterior Screw Retained
Monolithic Crown

IMPRESSION AND PROCESSING

Implant level impression



Absolute digital design

NobelProcera® CAD milling & sintering

Absolute Lab final contouring & staining

Available on all Nobel Biocare Conical Connections

DELIVERY

Attach metal adapter

Position the crown

Adjust interproximal & occlusal contacts

Torque to Nobel Biocare protocols

Protect screw head with cotton plug

Plug access using composite material

Final delivery

"I delivered my first "FCZ" implant retained crown in less than 10 minutes. Prescribing this procedure with its retrievable option and no cement residue will change how we restore implants in the future. I truly believe this technology to be a more predictable, economical and functional way to restore dental implants."
– *Thomas A Leech DDS, Dentistry at the Park, NC*

Combination Full Contour Zirconia with ASC

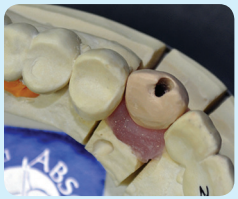
Case courtesy of Dr. Brandon Kofford

Hybrid Monolithic/Layered option for Anterior and Posterior application

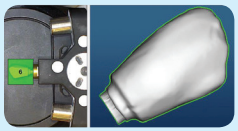
IMPRESSION AND LAB PROCESS

Removal of Immediate Temporary

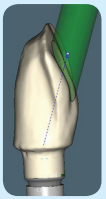
Implant level impression



Diagnostic wax-up



Digitizing the wax-up on the NobelProcera® 2G Scanner



Digital cutback and access correction using ASC

NobelProcera® Milling and Sintering

Cut back and preparation for layering Ceramics

Absolute Lab Processing - Porcelain application to facial

Lab delivery of processed crown

DELIVERY APPOINTMENT

Position and finger tighten crown

Radiographical verification of seating

Test and adjust occlusal and interproximal contacts

Torque to traditional Nobel Biocare torque settings

If using ASC a special screw will be provided with case. Note the blue screw head for ASC.

A special Omnigrip™screw driver is needed to engage an ASC screw. This driver fits into a standard Nobel Biocare wrench.

Protect screw head

Close access with composite

Monolithic Lingual /Layered Facial

Final Delivery

"After restoring my first hybrid FCZ screw-retained crown with Angulated Screw Channel Correction, I found the process very predictable and the results achieved to be both functional and esthetic. By prescribing these technologies I was able to solve the cement residue and screw access issues in one application."
– Brandon Kofford DMD, MS, FACP, Royal Oak Dental Group, NC

Clinical & Laboratory Components needed to restore FCZ & ASC

Noble Biocare order numbers shown, contact your rep for more information.

CLINICAL NEEDS

Impression Coping*

NP: 36258 narrow x short
36260 narrow x long
36259 intermediate x short
36261 intermediate x long

RP: 36263 narrow x short
36262 narrow x long
36265 intermediate x short
36264 intermediate x long
36267 wide x short
36266 wide x long

WP: 37855 intermediate x short
37854 intermediate x long
37857 wide x short
37856 wide x long

Unigrip – manual driver
29148 20mm // 29149 28mm // 29150 36mm

Omnigrip – manual driver – ASC application
37367 20mm // 37377 28mm // 37378 36mm

ASC Driver for torque wrench
37379 20mm // 37380 25mm // 37381 30mm // 37382 35mm

Nobel Biocare torque wrench
34584

Prosthetic Kit
3744

LAB NEEDS

Lab analogs
NP: 36697 // RP: 36698 // WP: 37879

FCZ wax-up sleeve
NP: 37449 // RP: 37450 // WP: 37608

Abutment wax up holders
NP: 36746
RP: 36747
WP: 37568

NobelProcera® 2G scanner
37260

**Narrow, intermediate or wide refers to emergence profile. Long (14mm) or short (10mm) refers to length of post.*

Absolute Dental Lab

Established in 1994, Absolute Dental started as a fixed prosthetics lab serving clinicians in the Triangle area of North Carolina. Two decades later, Absolute's restorative focus is much broader but their attention to product detail and exceptional customer service has not changed.

Today, the Absolute team is renowned for their expertise in creating world-class dental esthetics. Their use of cutting edge technology in CAD and milling departments, as well as their extraordinary dental implant and high end removables sections, enables them to deliver lifelike and functional dental prosthetics.

Staying abreast of new technologies, yet only implementing relevant protocols and procedures, has earned Absolute a reputation for being a trusted partner to discerning clinicians throughout the United States.

Serving their customers with Absolute Excellence has always been the primary focus of the owners, branch partners and team members...this remains true today.

Conrad J. Rensburg

ND & NHD in Tech.

Conrad J. Rensburg graduated under full scholarship from Pretoria Tech in 1992, with a four-year Baccalaureate Degree in Technology. Since that time, he has specialized in fixed prosthetics with a heavy emphasis on dental implant restorations.

While employed by ADW Dental as Senior Ceramist, Mr. Rensburg received managerial certification from the SADTC in 1995. After, he owned and operated RensTech Fixed Prosthetics in Pretoria, South Africa. In 1999 he relocated to the U.S. and was hired as the General Manager of Absolute Dental Services. During that time, he created the nationally renowned Absolute Implant Department.

Mr. Rensburg and his business partner, Drew Van Aarde, purchased Absolute Dental in 2004. With Drew as Senior Ceramist and Conrad as head of Absolute Dental Implant and Pre-Ceramics sections, they created a world class dental lab in the Triangle area of North Carolina.

Mr. Rensburg is a board-certified technician in good standing with the SADTC and NCDLA. He has been a CE accredited speaker for several dental implant manufacturers since 2002, and has been the keynote speaker at special events across the U.S. His seminars are focused on educating restorative dentists on the latest techniques and materials, as well as keeping them up-to-date with the ever-evolving dental implant market.

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