



**Klausz Dental
Laboratories Ltd.**

Working **harder and smarter** for your practice!

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"We Build Advanced Occlusal Concepts Into Everything We Do!"

SPRING 2020

INSIDE THIS ISSUE

- 1 We've Grown into an O.I.C.S. Specialty Laboratory
- 1 Panthera D-SAD Prescription 1.5 and the All New Communication Suite of Documents
- 2 The Mini Marvel Appliance Developed to Reduce Daytime Grinding and Clenching
- 3 Anterior Aesthetics - Case Courtesy of Dr. Daphne Kwan
- 4 How to Increase the Bond Strength of Zirconia Based Restorations

We've grown into an O.I.C.S. Specialty Laboratory!

At **Klausz Dental Laboratories**, we are committed to providing our clients with a full range of services, restorations, and appliances to meet all aspects of clinical dentistry. To meet your expectations we have grown into an **Occlusal-Implant-Cosmetic-Sleep (O.I.C.S.) Specialty Laboratory** and we have solidified our position as a leader in these fields through various certifications.

With over 50 years of experience in the dental technology field, we build advanced occlusal concepts into every restoration and appliance we custom fabricate. It's with a greater understanding of how teeth, muscles and joints work together that we can create restorations that not only look lifelike and aesthetic, but can last longer and function better. Allow us to apply the knowledge we've accumulated into your next restoration or appliance. See why we've become an **O.I.C.S. Specialty Laboratory**.

Klausz Dental Laboratories is thrilled to announce the launch of the new Panthera D-SAD Prescription 1.5, along with the all new Panthera D-SAD Communication Suite of Documents

As a leader in the field, developing appliances for the treatment of Obstructive Sleep Apnea (OSA), Panthera is always looking for ways to improve the communication between the dentist, the dental laboratory, and their design team. With this in mind they have created a new suite of communication tools to help make prescribing and delivering Panthera appliances easier and more predictable. As a Preferred Partner Laboratory, we are thrilled to be one of the first dental laboratories to offer our clients the full suite of communication documents to help our clients succeed in this growing field of dentistry. These documents are available to download directly from our website.



PANTHERA D-SAD Prescription 1.5

Patient: _____
Dentist: _____
License #: _____

1 TREATMENT RANGE NEEDED? (Starting point)
 Retrade 4mm with 0.5 mm step before patients max. Protrude 5mm. Retrade 5mm and protrude 5mm.

2 VERTICAL SPACING
 Close or open to optimize the device. Yes No
 Keep it, call if minor change needed.

IS MANDIBULAR PROTRUSION STRAIGHT? Yes No

ELASTIC NOTCHES No Yes

FRAGILE TEETH: Teeth #: _____
 CROWN AND / OR POSTIC: Teeth #: _____

USE OPTIMAL VALUES? No Yes * IF YES checked, skip to section 5.

3 UPPER PLATEAU LATERAL FULL INVERSE LOWER PLATEAU LATERAL FULL

4 UPPER BAND LINGUAL FULL LINGUAL LINGUAL LINGUAL ANTERIOR WITH CONTACT FULL LINGUAL LINGUAL LINGUAL

LOWER BAND LINGUAL FULL LINGUAL LINGUAL LINGUAL ANTERIOR WITH CONTACT FULL LINGUAL LINGUAL LINGUAL

5 EXTRA OPTIONS
 Thinner upper soft distal wrap
 Decant case or roller Upper Lower
 Lower

COMPOSITE BUTTON Add if needed Call me Cancel case and ship back

SITE REPOSITIONING APPLIANCE No Yes No Yes

6 COMMENTS _____

SIGNATURE _____
 do not call me if design changes are needed.

The MiniMarvel Appliance

Developed to Reduce Daytime Clenching and Grinding

The MiniMarvel Appliance is a discreet custom fabricated splint for your patients who are looking for ways to stop daytime clenching and grinding.

Experiences involving physical exertion, stress, anger, and intense concentration all have a higher potential for clenching damage.

The MiniMarvel Appliance design is light, thin, and very comfortable. This appliance is so discreet, it doesn't even affect speech. The appliance easily trains the wearer to keep his or her teeth apart.



Exceptional Benefits of the MiniMarvel Appliance

- Recommended for Daytime Wear - The appliance is almost invisible when worn.
- No Adjustments - It seats with ease, with no time wasted on grinding in the occlusion.
- Improved Compliance and Performance - It is extremely comfortable and very stable, due to its use of tissue coverage to create a Hydroseal.



The secret to its comfort lies in the strategic placement of two discluding elements which act as rigid therapeutic bands. These are positioned to occlude with the maxillary canines making sure that the posterior teeth are separated. These elements deprogram the muscles of mastication by minimizing bite force, thus preventing the patient from completely occluding, and helping maintain a comfortable position. Since there are just two therapeutic bands as points of occlusal contact, there's no need for any adjustments.



Different from other splints, MiniMarvel Appliances will remind the patient when they are biting too hard, in an effort to change the behavior.

Simple and effective

The MiniMarvel Appliance may just be what you and your patients are looking for.

Looking for innovative ideas, is just another way we are,
"Working Harder and Smarter for your Practice!"

Anterior Aesthetics by Klausz Dental Laboratories Case Courtesy of Dr. Daphne Kwan, North York, Ontario



"From initial planning to final delivery, Klausz Dental Laboratory has provided us with unwavering support. Their expertise in ceramic artistry and knowledge in occlusion have enabled us to deliver both aesthetically pleasing and functionally ideal restorations."

-Dr. Daphne Kwan



The patient presented with a variety of cosmetic and functional concerns, and was looking for an aesthetic enhancement to make her smile more ideal. Teeth 11+22 had old, discoloured, pfm crowns with porcelain fractures. The rest of the anterior teeth were highly discoloured and misaligned. The patient consented to the treatment plan of having her teeth prepared for porcelain crowns and veneers. E.Max lithium disilicate was the material of choice for crowns that were fabricated for teeth 11, 21, 22 and veneers that were fabricated for teeth 14, 13, 12, 23, 24 and bonded into place. As a final step, occlusal equilibration was performed, and premature interferences in protrusive and lateral excursions were eliminated. The patient was thrilled with the final result.

We've Updated Our Website to Serve You Better

Your portal to all that's new and exciting in dental technology



www.klauszdentallab.com



How to Increase the Bond Strength of Zirconia Based Restorations

The use of zirconia based dental restorations has increased in recent years due to their superior aesthetic appearance and metal-free structure. The clinical success of fixed ceramic restorations seems to be strongly dependent on the cementation procedure. Zirconia based restorations can be bonded to teeth structures by both conventional and resin cements; however, dual cure resin cements are preferred because they have the advantages of marginal seal, good retention, and improvement of fracture resistance of ceramic materials.

Zirconia based restorations cannot be acid etched due to their lack of silica and glass, so sandblasting is the preferred surface-roughening method.

Here are some suggested methods to treat zirconia based restorations prior to bonding to improve restoration retention.

Method 1: If Sandblasting (Micro-Etching) Is available

Step 1: Sandblasted with 50 μm Al_2O_3 particles from a distance of 10 mm perpendicular to the specimen surface at a pressure of 2.5 bar for 15 s.

Step 2: Coat zirconia surface with Z-PRIME Plus (Bisco Canada 1-800-667-8811) or Monobond Plus (Ivoclar Vivadent Canada 1-800-263-8182) and allowed to air dry

Step 3: Cement with Preferred Dual Cure Resin Cement



Method 2: If Sandblasting (Micro-Etching) Is Not available

Step 1: Clean zirconia surface with ZirClean Restoration Cleaner (Bisco Canada 1-800-667-8811) or Ivoclean (Ivoclar Vivadent Canada 1-800-263-8182)

Step 2: Coat zirconia surface with Z-PRIME Plus (Bisco Canada 1-800-667-8811) or Monobond Plus (Ivoclar Vivadent Canada 1-800-263-8182) and allowed to air dry

Step 3: Cement with Preferred Dual Cure Resin Cement



Helping our clients achieve the very best clinical outcomes, is just another way we are, "Working Harder and Smarter for your Practice!"



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Working with others to provide our clients with the very best in Continuing Education is just another way we are, "Working Harder and Smarter for your Practice!"



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