

What is Captek™ Alloy and How Does It Reduce Bacteria

Why does use continue to grow in the U.S.?

In many dental practices across the country, Captek™ has been slowly replacing traditional PFM's. By some estimates, Captek use is increasing faster than many of the all-ceramic crowns systems. Since its introduction in 1993, this porcelain fused-to high noble crown (CDT 2750) has won many converts due to exceptional clinical results, most notably the gingival health and aesthetics



Biologic response to Captek crowns improves gingival esthetics, even without porcelain butt margins.

thought to be the result of significant bacteriostatic biocompatibility of the Captek metal coping. Doctors continually report extraordinary tissue response in

Indications:

Full coverage, single tooth crowns, anterior or posterior.
Small bridges, maximum 15 mm pontic width.
Patients at risk for periodontal disease.

Contraindications:

Metal occlusal
Knife-edge margin
Irregular prep form or post crown.

Tooth Preparations:

1.5mm incisal,
2.0 occlusal reduction circumferential,
1.0 chamfer margin
Rounded line angles,
no undercuts.

patients with previously unsightly dark tissues around crowns. Teeth with a history of significant plaque and periodontal infection also show marked improvement with Captek crowns. Along with exceptional biocompatibility, Captek has proven strong enough for posterior crowns and bridges, unlike many of the other "high-gold" alloys on the market today.

Not an alloy, more like a composite metal

First of all, to understand

Captek metal is to understand it is not a traditional cast dental alloy. Think of it as composite. Like your favorite hybrid material that consists of a matrix reinforced with small, filler particles of high strength quartz or zirconium,



Captek crowns



Captek copings consist of a 97% gold matrix reinforced by infusion technology with small particles of a high strength platinum/palladium alloy. The combination of a pure gold matrix with the palladium group filler preserves the color, biocompatibility, burnishability, and high nobility of pure gold while introducing the high temperature stability, strength, and toughness of the platinum/palladium alloy. The color of traditional PFM alloys that create gray margins and gray shades, are a thing of the past.

Mysterious Periodontal Benefits

By now you've probably heard about the claims that Captek significantly reduces plaque adhesion on both the adjacent tooth structure and the crown margins. A decrease in bacteria is of particular importance. Tests have shown Captek surfaces have about one-tenth the bacteria of natural tooth surfaces. But the reason for Captek's bacteria-repelling effect is not yet completely understood. Some researchers theorize that the unique layering process used to make a Captek metal coping produces a small electrical field that affects bacteria. Whatever the cause, the visible results and anecdotal accounts of exceptional gingival response and periodontal health continue to be reported to Captek processing laboratories around the world.

If you haven't tried Captek before and would like to start today, give us a call for our "new user" trial kit that includes shipping supplies and a special Captek offer from Keller.

NTI-tss Plus™ 5 Point Checklist for Insertion



When delivering an NTI-tss Plus™ you need to confirm that the appliance meets critical guidelines for patient safety, comfort, compliance and success. Remember your goal is no tooth contact on plastic or tooth structure from the canine back, regardless of patient functional or parafunctional movement.

The NTI-tss Plus Checklist:

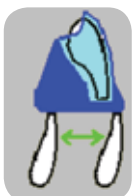
1 Retention and Comfort: Ask the patient to remove the appliance using only their tongue, lips, cheeks, and facial muscles. If they cannot remove it and retention is secure, move on to the next check. If they can displace it and pop it out, you need to relin the appliance using a very small amount of Snap acrylic. Also, at this time ask about sharp edges, overextensions, and other surface irregularities that need smoothing.

2 Centered: The DE (Discluding Element) of the appliance should be centered on the two opposing centrals. This helps distribute the clenching load on the two teeth in equal proportion. The DE centered on one opposing tooth will cause patient discomfort. Centered does not mean the DE is necessarily aligned with the maxillary or mandibular mid-line. Reduce or widen the DE as necessary to center it before moving on.



DE Centered on opposing centrals for load distribution

3 Protrusive Protection: Ask the patient to maximally protrude and retrude the mandible. Check to be sure the patient does not get “in front” or “behind” the DE. Remember your goal is to disclude all the canine/posteriors in all movements. Extend or shorten the DE as indicated.



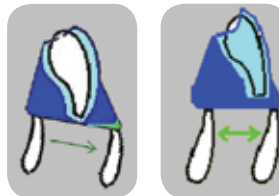
DE length protection at maximum protrusion

4 Lateral Excursive Clearance: After confirming there are no tooth contacts in protrusive, have your patient slide laterally left and right. Again, confirm there are no posterior tooth contacts during these movements. The amount of vertical clearance in these movements should be minimal. Reduce the DE height if possible to minimize vertical opening. If an increase in the DE vertical is necessary to avoid tooth contacts, either add to the DE height or reduce the interfering cusps.



DE height or enamel/plasty prevents canine/posterior excursive contacts

5 DE Angle Minimizes Translation: The angle of the DE should not unnecessarily increase vertical opening in protrusive. A general guideline is that the angle of the ramp should be parallel to the maxillary occlusal plane.



DE Angle adjusted to minimize vertical opening in protrusive

When fabricating the NTI-tss Plus, Keller technicians follow the same checklist.

Recommended add-on materials include:

Snap acrylic (Parkell) and Triad LC with bonding agent (Dentsply). Temporary Crown Matrix Buttons (Advantage Dental Products) can also be used as a temporary relin material to increase retention or to relin an NTI over temporary crowns.

What to Send the Laboratory:

1. Upper and lower full arch impressions.
2. Maximum protrusive bite registration or measurement-
Used by the lab to check DE facial-lingual length.
3. Vertical opening measurement for excursive clearance-
Used by the lab to confirm DE height.



FREE Marketing Kit

To make it easier for you to introduce the NTI-tss Plus to your patients, Keller offers a Free NTI-tss Plus marketing kit.

Each Free kit includes:

- NTI-tss Plus sample for your patients to see and touch
- Patient Brochures for your reception area to prompt patients to ask about NTI-tss Plus:
 - 25 brochures highlighting protection benefits
 - 5 brochures highlighting migraine prevention benefits
- 3 Personalized NTI-tss Plus Protection posters for your operatories or hygiene department.

Call us today to get your Free NTI-tss Plus Marketing Kit!

Upcoming Educational Opportunities for NTI-tss

ABCs of TMDs, NTI's and Occlusion

Presented by
Jim Boyd, DDS and
Barry Glassman, DMD

September 23-24, 2005
San Diego, CA

To Register call Angela at the
Allentown Pain Center
(800) 435-6760

For more information go to
www.nti-tss.com and click on
course title at the top of the page

NTI in a Box – Rationale, Refinement, Restorative and Medical Insurance

Presented by
Michael Melkers, DDS, FAGD

For upcoming dates log on to
www.michaelmelkers.com

Conservative and Aesthetic Solutions for Single Tooth Replacements

- When an implant is unaffordable.
- When a conventional bridge is contraindicated.
- When you are looking for a conservative, aesthetic removable appliance. **Think Valplast.**

Valplast offers unique properties that cannot be matched with a conventional processed acrylic partial. The combination of unbreakable strength and aesthetics make Valplast ideal for both anterior and posterior single tooth replacements.



These properties include:

Flexible Retention: Material flexes to provide a variable path of insertion and ability to engage multiple undercuts.

Comfortable: Strength allows extra-thin palatal coverage.

Aesthetics: Light pink and translucent, no metal clasps needed.

Injection-Molded: Exceptional “non shrink” processing provides intimate mucostatic retention.

Hygienic: Will not absorb stain or odors, no monomer reactions

Because of the unique processing steps, Valplast partials are not available as quick, overnight, or emergency appliances. Allow 6 lab processing days plus shipping time.

Save on Shipping when you “Bundle”



When you ship multiple cases in one box to Keller, you can save on shipping charges with our “Inbound Bundling” Program.

Include 2 or more cases in one box (using one airbill) and we will charge the customary \$9 return shipping fee on one case. For every other case included in the same box, the **return shipping charge will be \$1.00.** You save \$8.00 on every case that you send “bundled.” The savings add up very quickly sending multiple cases per box. Please call for details!



No Hassle Custom Sports Guards

Various Studies conclude:

9% of Adolescent Athletes Suffer Oral Trauma

25% of Soccer Athletes Suffer Oral Trauma

31% of High School Basketball Players Suffer Oral Trauma

Nearly 39% of all dental injuries are sports related

*Matt Moss
Product Specialist*

It is estimated that victims of total tooth avulsions may face lifetime dental costs of \$10,000 - \$15,000 per tooth, hours in the dentist's chair, and the possible development of other dental problems such as periodontal disease.

Everyone associated with sports dentistry agrees that custom sports guards are more comfortable, more protective, and far more likely to be used if the athlete can speak and breathe. Because inexpensive "boil and bite" guards dominate market sales, accounting for nearly 97% of all units sold in the US, there is a huge potential for dentists to increase their sales of these appliances with proper patient education and pricing.



Nearly 39% of dental injuries are sports related. These injuries can be prevented.

In order to significantly reduce your chair time and costs, and to improve patient service, we now offer the new HotShok Sports Guard One-Appointment Method.

The 1-2-3 HotShok Protocol

1. Take a maxillary full arch PVS impression in a disposable tray during a regular hygiene appointment
2. Mail the impression with the HotShok Rx using a Keller postage-paid padded mailer.
3. The custom HotShok guard is delivered directly to your patient, no second appointment!

If only all dentistry could be this easy! One



appointment. 5-10 minutes total chair time. No laboratory work. No patient revisit.

We also suggest you set 3 prices based on the 3 levels of HotShok guards available. Consider a mark-up of 60-80% instead of the usual 4-5 times lab fee and you'll see parent and patient acceptance increase and practice revenue rise.

Please contact us for more information!

Keller Locations

- (800) 325-3056 St. Louis, Missouri
- (800) 292-1894 Louisville, Kentucky
- (800) 325-3056 Indianapolis, Indiana
- (800) 821-3107 Kansas City, Missouri

Did you know you can contact us for:

- Free Captek Patient Brochures
- Free Captek Preparation CD
- Free 3 Appointment Denture System Instructional CD



Give us a call or log on to www.kellerlab.com

How Hands-On CE Changed a Practice

Dr. David Greenhalgh of Shawnee Mission, Kansas has practiced 40 years. Soon his son will graduate and join him. So what does dad have in store for the newest member of his team? More education! "I want to get him into a hands-on Smile Design course as soon as possible. No other course changed my outlook on dentistry, or affected my patients more than the Smile Solution Practicum I attended last year."

Mendy Sneed, Dr. Greenhalgh's assistant of 18 years, was eager to take the hands-on aesthetic course for many reasons. "I wanted to learn more about how to do the type of cases that successful cosmetic practices were doing." Then she adds with a laugh, "I also wanted to discover how I could get Dr. Greenhalgh to do these Smile cases."

Mission accomplished. Since the course the office has averaged two Smile Design cases every month. Dr. Greenhalgh customarily uses metal-free restorations whenever he can. Every day he puts his new Odyssey Laser from Ivoclar* to work, improving gingival symmetry, crown lengthening, controlling hemorrhage and more.



Dr. Greenhalgh's Smile Solution patient.



"When I retire from dentistry I want to still be climbing, still improving, still learning and doing something new every day." Mendy Sneed and Dr. Greenhalgh are a true Smile Design team.

The Smile Solution Practicum offered by Keller Laboratories at various locations throughout the country connects an experienced clinical mentor to a mini-class of 5 doctors. All participants bring a patient to the course and complete a porcelain smile make-over during the 3 day program spread over 2 weekends. For more details about hosting a course in your area, contact a Keller service representative at 1-800-325-3056.

Nowadays, Dr. Greenhalgh calls Mendy "...my evangelist. When patients look at Mendy's beautiful smile they often say "I want my teeth to look like that!" Since taking the course, her confident response is "We can do that for you."

Along with the new found "aesthetic confidence and competence" Dr. Greenhalgh and Mendy agree that the most rewarding result of their course participation is the way they can now affect patients' self-image.

"I believe we are getting into another realm with Smile Design dentistry." says Mendy. "Sure we are working on their teeth and tissues, but we are working on their insides, too."

At Keller we all want to congratulate Dr. Greenhalgh for making a commitment to continuing education that has had a profound effect on his patients and his practice.

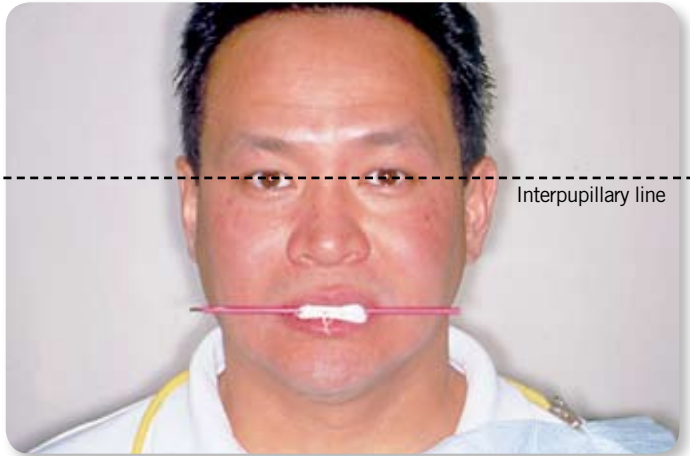
**For information about the Odyssey Laser go to www.getodysseylaser.com.*

Would you like to receive this newsletter via email? Just email us at keller@kellerlab.com with "Newsletter" as the subject and you're on the list.

Use a Stick Bite Registration for Dentures/Crowns/Veneers

Without using an earbow, the stick-bite establishes a horizontal reference for model mounting and helps the lab provide aesthetic wax-ups and finished porcelain work that follow the interpupillary line or, in asymmetric patients, the horizon.

Over the years we have expanded the use of this technique to help our clients communicate the desired



Stick-bite is used for mounting to horizontal, include a separate inter-occlusal bite for mounting opposing arch.

occlusal plane on denture set-ups and other anterior restorations.

Here is the simple technique:

1. With patient in open bite position and sitting either upright or standing, syringe bite registration material across the lower incisal edges from #21 to #28.
2. Flow an extra amount of bite registration material over the central incisors in a button fashion.
3. Have the patient close lightly into the bite material.
4. Flow additional registration material onto the centrals in a closed position, creating an excess to insert the horizontal reference "stick."
5. Align a plastic handle (Benda-Brush) with the interpupillary line of the patient or horizontal to the floor. Roll it into the excess material near centrals.
6. Carefully tip the embedded brush into horizontal alignment with the pupils.
7. Take a photo for reference.

Always include eye to chin photo.

Not a substitute for centric bite registration.

Return service requested



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