

The Impact Zone



IMPACT DENTAL LABORATORY — A PROUD NATIONAL DENTEX (NDX) LAB

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NTI-tss Plus Appliance: Less Is More

The Most Effective
FDA Approved
method of migraine
prevention.



The NTI-tss Plus™ protects teeth, muscles and joints by suppressing parafunctional muscle contraction by almost 70%. Originally developed to prevent migraine pain, the NTI-tss Plus is proven to be a superior alternative to full coverage bite guards.

The NTI-tss Plus also gives dentists a way to simply and effectively treat patients suffering from tension and mi-

graine headaches by reducing the intensity of jaw clenching while the patient sleeps.

To find out more about the **NTI-tss Plus appliance, including a chairside guide and patient literature, call our toll free number at 800-668-4691 or visit our website at www.impact-dental.com.**

Points of Interest:

- FIND OUT HOW LESS IS MORE
- THE SUCCESS RATE OF NTI-TSS PLUS
- HOW YOUR LAB WILL SUPPORT YOU
- A SIMPLE DEMONSTRATION OF THE NTI-TSS
- A NEW REVOLUTION IN THE INDUSTRY

PRACTICE ADVANTAGES

- Easier to seat with fewer adjustments than a traditional bite guard, saving valuable chairtime
- Durable, precise fit
 - High heat, high pressure injection process guarantees perfect fit and safe retention
 - High strength, longer wear
- Excellent practice builder
- Superior alternative to bite guards — does the job of bite guards but only covers the centrals and laterals

PATIENT ADVANTAGES

- Smaller, more comfortable than traditional bite guards
 - Won't trigger a gag reflex
 - Patients will actually wear it
- Less costly than restoring teeth
- Save on costs and side-effects of prescription drugs
- More effective
 - discludes canines and posterior teeth, thereby reducing clenching by almost 70%

INDICATIONS

- Tooth wear from bruxing and clenching
- Muscle pain associated with muscle dysfunction
- Diagnostic treatment planning
- Protection (prevent damage to hard and soft tissue)
- Diagnosis (determine the cause of the patient's painful condition)
- Therapy (to relieve pain and promote healing)

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THE NTI-TSS PLUS

IS MORE
DURABLE, MORE
EFFECTIVE, MORE
COMFORTABLE,
AND EASIER TO
SEAT

Achieving instant and constant incisal guidance



Protrusive: Lingual extension of the DE maintains incisal contact, prevents posterior contacts, maintains suppressed muscular intensity in all movements.



Centric: Instant incisor contact on the DE reduces muscle contraction intensity and allows for optimal, stable condylar position.



Excursive: The height and contour of the DE prevents the canine contact on tooth or appliance, maintaining suppressed muscular intensity and joint stability.



James P. Boyd, DDS

Question and Answer with Dr. Jim Boyd

"What is the success rate of the NTI-tss Plus?"

"That depends on the condition of the patient. Dentists who are using the NTI-tss exclusively for TMD patients are getting very, very good results. Based on the reports I've

been receiving, even those patients who seem to not respond to any TMD treatment do quite well with the NTI-tss (testimonials). Migraine patients are different. Unlike the protocol for the TMD patient, the dentist can not miss a trick when

providing an NTI-tss to a migraineur."

Part of an ongoing feature in the Impact Zone newsletter, where Dr. Jim Boyd answers questions related to TMD, migraine, and headache problems.



From brochures to DVDs, Impact has a wide variety of NTI-tss Plus support materials

NTI-tss Plus Support Materials

Impact offers a wide variety of NTI-tss support material and resources. This includes:

- Patient education pamphlets
 - Protection brochures
 - Migraine brochures
- Chairside guide
- Evaluation cards
- Design options chart
- DVDs
 - Occlusion and split therapy
 - Introductory and Educational CD-ROM
 - Principles of Parafunctional Control
 - Stories of Success with NTI-tss

Impact also holds and sponsors lectures, lunch-and-learns throughout the year, whether it's a product update or technical skill seminar. To join our mailing list, contact Jeff at 800-668-4691 or visit our website at www.impact-dental.com

How the NTI-tss Plus Works

This is a simple demonstration of the efficacy of the NTI-tss device.



Begin by gently biting on the moon portion of your fingernail, using your central incisors. Only be forceful enough to create slight discomfort.



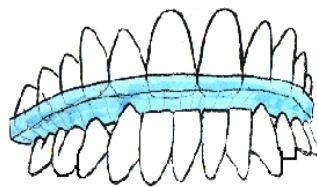
Now **attempt to use the same amount of force**, but this time bite with a canine tooth on the same spot of your fingernail as you did with the central incisors.

What happens? Biting with the canine tooth is suddenly more painful than with the incisors... Why?

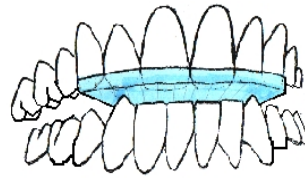
The incisor teeth are intended to not only incise food, but to be "hardness monitors" of what you're biting into. They are under your control and tell you if something will be too hard to chew.

The canine teeth are designed for grasping and pressing into what it is that you're trying to hold on to (carnivores specifically use the canine teeth for this purpose). The intensity of muscular activity created once the canine teeth have been engaged is under less voluntary control. In fact, the message to the brain is: **"We've opened our mouth to grab something and have caught it...hold on!"** The contacting of canine teeth encourages jaw clenching!

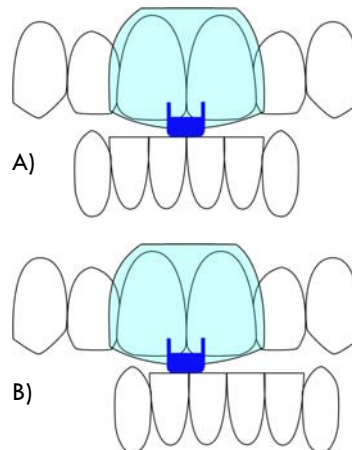
Dentistry's attempt at dealing with parafunctional jaw muscle activity (the most destructive of which is jaw clenching) has been to provide alterations of the biting surfaces of the teeth.



1) A full coverage splint, usually a thickness which mimics the intended space between the teeth when the jaw musculature is supposed to be at rest, provides both canine and posterior teeth contact, thereby allowing for perpetuation of parafunctional (nighttime clenching) muscular activity.



2) An anterior bite plane reduces parafunctional intensity of the masseters, and to a degree, the lateral pterygoids, but still provides canine contact for temporalis clenching.



The NTI-tss device (above) reduces clenching intensity by exploiting the mechanisms of the incisor teeth and by **preventing the engagement of the canine and molar teeth** when the jaw is centered (A), and when it is in excursive positions (B).

THERE ARE MANY OPTIONS AVAILABLE FOR THE NTI-TSS PLUS, DEPENDING ON THE TYPE OF INDICATIONS AND USE

We Deliver Smiles!



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Experience the difference that you can trust with Impact!

Impact Dental Laboratory is a state-of-the-art full-service dental laboratory, providing consistent quality products and services to our clients. Our excellent customer relations have given Impact a reputation as one of the leading dental laboratories in the country.

Our high-tech laboratory features the latest products, services and techniques available, as well as a knowledgeable team of technicians and administrative staff paying attention to detail while coordinating each and every case to be completed to the highest standard and in a timely fashion.

We invite you to visit each section of our website to discover how we can help you and your dental team create life-like smiles in your practice today. Experience the Impact difference!

We are a proud National Dentex Laboratory.

Visit our website at www.impact-dental.com,
or National Dentex at www.nationaldentex.com

Message From The President



Fred Lorenz, President

One of the great things about being in the health industry is seeing how our work is able to improve people's lives.

This is especially true for migraine and headache sufferers, whose affliction can be debilitating.

This is why the Impact team is proud to announce the addition of NTI-tss Plus as part of our product line up. Clinical Research Associates (CRA), an independent, all dentist research group, tested the NTI-tss over one year on 230 patients with various headache and TMD symptoms and found that 80% of those patients benefited from wearing the NTI (CRA Newsletter March

2000). In another study that lead to the FDA approval, 82% of NTI-tss users had a 77% average reduction in migraine events. Reportedly, drugs approved by the FDA for migraine prevention or treatments rarely have better than 55% efficacy and often have harmful side effects. The NTI, a reversible non pharmaceutical treatment with no reported health side effects may be the preferred first option to consider in treating migraine patients.

But that is only one aspect of NTI-tss plus, as it's a useful device with three main goals in mind. Protection: To protect/prevent damage to hard and soft tissue. Diagnoses: To

determine the cause of a patient's painful condition. Therapy: To relieve pain and promote healing.

All of this results in helping patients to relieve symptoms such as broken teeth, neck pain, disturbed sleep, sore muscles, fatigue. Things you can't put a price on.

We are proud to be able to offer this service to dental professional as the only certified NTI-tss plus dental laboratory in Canada.

Consider this practice building NTI-tss plus device in your daily routine and find out why "less is more".