



What's the most effective use for them?

When can they be used?



Is the MDI FDA approved?

What are Mini Implants?

Mini dental implants are ultra-small diameter (I.8 millimeter width), biocompatible titanium alloy implant screws, conceived and developed over 20 years ago by a Manhattan dentist, Victor I. Sendax, DDS. Dr. Sendax originally created the unique design of this innovative dental product as a transitional device to help support fixed bridge replacements for missing teeth. His novel theory was that mini implants could function free standing by themselves or in combination with natural tooth supports and/or larger conventional type implants. This was a revolutionary concept in dental science.



Late in 1997, Dr. Sendax collaborated about his miniimplant theory and design concepts with a colleague, Dr. Ronald A. Bulard. Convinced they were on to something special, and recognizing the need for dental applications involving the new implants, Drs. Sendax and Bulard spent countless hours studying and refining the original creative design, resulting in a more efficient top and collar for the implants. The two doctors recognized the need for dental applications involving the new implants. The trade name MDI (mini dental implants) was agreed upon and copyrighted.

Yes. After research. clinical trials and exhaustive studies, a formal application was filed with the FDA in Washington, D. C. seeking permission to market the mini dental implant devices to the general public. After providing satisfactory technical and clinical evidence to that federal agency that the product was safe for public use and in fact had beneficial attributes, the FDA granted its formal consent to market the MDI device not only as a transitional or temporary dental product, but significantly, as a long-term device. No other mini dental implant product currently on the market can make this claim.



When can they be used?

When critically needed for support purposes, and where solid bony adaptation (integration) has clearly occurred, mini implants can function as longterm supporting structures rather than as short-term or medium term devices. In fact. some have been successfully functioning in patients' jaws for several decades. Further, they're particularly effective in crown and bridge applications, as well as singletooth replacements.

What's the primary and most effective use for them?

The most effective use of this unique dental product is stabilization of a mandibular denture. There are approximately 30,000,000 people in the United States who are "edentulous" (literally meaning lacking teeth) who struggle daily with prosthetic devices. A majority suffers a great deal of discomfort as a result of loose or ill-fitting dentures. Also, many denture wearers simply withdraw from any type of social engagement as a result of being compelled to wear them. Moreover, it's not uncommon for family members to complain about a denture wearer's disagreeable breath as a result of food being trapped and decaying under their denture prosthesis. Successful placement of the MDI addresses and solves all of these social and practical problems and concerns.

You've told us about the diameter of the implants. How long are they?

10, 13, 15 & 18 millimeters

IMTEC Corporation manufactures and sells the implants in six lengths, 6, 8, 10, 13, 15 & 18 millimeters. One trained in dental science will recognize instantly that these lengths appropriately anticipate the type of depths that are needed in a wide variety of prospective MDI patients. The company also manufactures the MDI MAX that's sold in 10, 13, 15 & 18 millimeters.

How are mini implants different?

As a revolutionary departure from routine implant methods, mini implants are so narrow they are typically inserted directly through the overlying gum tissue and into the bone underneath. Consequently the need to surgically cut and "flap" open the gum tissue, routinely required for standard dental implant systems, is avoided in most MDI applications. As a result, post-insertion patient irritation and soreness is significantly reduced. While all dental implants require care during insertion to avoid encroaching on vulnerable nerves, sinuses or bony structures, the ultra small width of the IMTEC mini implants offers a comfortable margin of safety.

It's true that what the dental profession calls occlusal forces create dynamic pressures on the human jaw. The jaw is marvelously designed to adequately withstand those forces. It's also true that mankind has been struggling for centuries to come up with some type of metal or metallic element that can efficiently withstand those forces. Most have been outright failures. However, approximately twenty-five years ago some doctors around

the world began experimenting with titanium as a potential dental medium. Titanium is an extremely strong metal used in the construction of aircraft and aircraft engines. The

I'm somewhat aware of the tremendous forces the human jaw usually endures during normal chewing of food. How can these tiny implants withstand that?

metal, in its commercial form, is incredibly strong and durable. The Sendax MDI takes that metallurgical concept to the next level by adapting an industry approved mixture of commercially pure titanium, a small percentage of aluminum, and a tiny sample of vanadium, likewise a malleable metallic element. The result is one of the strongest metals on earth, now commonly referred to as titanium alloy. In fact, extensive tests conducted several years ago by the University of Alabama-Birmingham School of Orthopedics revealed that the particular titanium alloy implants used in the IMTEC Sendax MDI's are 64% stronger than ones constructed of commercially pure titanium. The bottom line is simple: If a denture patient has sufficient bone mass to create a rock hard placement of the tiny implant, which an experienced dentist can usually determine by an initial examination, the mini dental implants will generally withstand normal occlusal forces just like natural teeth. Fractures are extremely rare, but as is the case with a person's normal teeth, can certainly occur. In those rare instances, a dentist can guickly remove the fractured implant and replace it.



What type of surgery is involved?

A single, minimally invasive surgery is needed for insertion of the MDI mini implants. They are then put into immediate biting or "loading" function thanks to their "self-tapping" design, thereby anchoring a fixed bridge system. As a result, it is often possible to provide the complete mini implant service in a single office visit.



What about failures?

It must be recognized that all implant systems as well as natural teeth are subject to potential failure due to natural causes, including osteoporosis, poor oral hygiene, wear and tear attrition, poor health, heavy, stressful biting habits, and lack of follow-up dental maintenance care. Mini implants similarly do not carry any actual or implied guarantee of longevity. However, the loss of a mini implant is a far less critical event to the patient since it may be replaced at relatively minimal cost compared to larger conventional implants, and with minimal associated bone or gum deterioration. Case failures involving mini implants are extremely rare. I've been told by my dentist that my jaw bone is not "dense." Is this a problem with the MDI? Will a dentist be able to get a rock-solid resistance state in such a situation?

After the MDI was developed, Dr. Bulard anticipated this type of dental patient, and as a result, took steps to expand IMTEC's original production offering to provide an MDI MAX implant. Equipped with approximately the same dimensions as the standard ones, the MAX has a different thread design that enables the implant to bite into softer bone and hold. It's ideal for a patient whose bone density is lacking. The MDI Max has a diameter of 2.2 millimeters.



What's a typical daily routine one might expect once the MDI's have been placed?

As with all dental applications, there's a short adjustment period during which time the MDI patient becomes comfortable placing and removing the denture. Typically, this involves removal of the lower denture in the morning, brushing the gums and implant area with an ACCESS curved bristle toothbrush, using the ACCESS Oral Care implant gel and mouth rinse, rinsing the denture itself, then replacing it. The result is a normal day's activity for the patient, including eating, talking, taking a nap, etc. Then, in the evening, the denture is usually removed again, the ACCESS Oral Care system is used, and the mouth thoroughly rinsed. The MDI patient then opts to sleep with, or without his or her denture. The result is a fully functioning dental appliance that works, is socially acceptable, has a comfortable fit, etc.

How can I find out more about the IMTEC Sendax MDI?



(ACCESS)

If your computer is connected to the Internet, log onto IMTEC's website, www.imtec.com, and click on the Sendax MDI portion. You can get additional information there. For dentists in your locale who are placing the MDI, click on Doctor Locator. Remember, this wonderful procedure slatively new, and dentists and oral surgeons who have learned the system and have had experience in placing it, are growing in number. More dentists are being added to the company's website and to www.minidentalimplants.com each business day. While you're at IMTEC's site, check out the ACCESS curved bristle toothbrush and ACCESS Oral Care system that are specially designed to complement the MDI's insofar as oral hygiene is concerned. They're ideal products for implant patients.

I've heard that standard dental implants are somewhat expensive. What about these?

It goes without saying that dentists set their own fees based on a wide variety of factors. As you would expect, fees vary around the country and from doctor to doctor. The best way to address this issue is to engage your dentist of choice in a frank discussion about what to expect insofar as fees are concerned. In considering the costs of an MDI placement, bear in mind the costs of dentures and required periodic adjustments that can be quite expensive. Plus, by choosing the MDI, you've chosen an enhanced way of life free of a lot of the discomforts and heartaches of a loose or illfitting denture. That's worth a lot.

Recent comments received by IMTEC Corporation concerning the Sendax MDI:

"I have placed over 1,400 MDI's during the past four years. Over 300 patients have benefitted from having stable, secure dentures. My patients are so satisfied that they can't stop telling all of their friends and relatives. In addition to using the MDI's for mandibular stabilization, I now use them for a patented concept where missing single teeth are restored in less than an hour. The success rate for that procedure is 98%+."

Dr. Todd E. Shatkin - Buffalo, New York

"I just wanted to thank the people that were responsible for this procedure. It has changed my life. I lost my teeth at the age of 23 and was never able to wear anything but a top plate. It affected by entire personality, and therefore the course of my life. I found this procedure (IMTEC Sendax MDI) by accident on the computer and decided to check in to it further. I had it done about 7 months ago, and it's wonderful. I really think it's sad that more people don't know about it, or do, but are afraid of it. Dr. William W. Rea of Leading Edge Dental in Leesburg, Florida performed the procedure for me. He determined that there was enough bone left to hold the implants. Everything was gone in the back of my mouth, so he put four mini dental implants in the front. They are great! I really thought there was no hope of ever being 'normal' again, especially after twenty-five years. The fact that this procedure is so affordable, and virtually painless to have performed, is something that the public should be made aware of. Had I not spent hours on my computer, I would have never known about it."

Deborah Bacon - Ferndale, Florida

"German dentists offer a high standard of quality for a reasonable price. With recent changes in the German social system, it has become more and more important to offer citizens good dental services at fair pricing. The IMTEC Sendax MDI system provides patients with a valuable system to fix his/her dentures without the dentist losing income. When fixing the metal housings into the denture and making a direct lining, the dentist is also able to change outsource laboratory work into in-office chair side work. That also reduces necessary fees to the patient."

Dr. Guenther Koenig, DDS - D Med Lemgo, Germany

Recent comments received by IMTEC Corporation - concerning the Sendax MDI:

"I've been using the MDI's and love them. My patients think I'm great when they leave my clinic with stabilized dentures. For the price you can make them accessible to most of your patients."

Mark Collins, DDS - Fort Mohave, Arizona

"My first case was a difficult patient with a difficult transition problem. I placed four MDI's and removed three infected teeth. The patient was pleased when he left my clinic and continues to do well. I want to do more of these MDI cases. I had initially thought the MDI's were a wonderful transition modality while conventional implants were healing; now I'm not so sure that this isn't a better technique for a lot of reasons, non-invasive surgery, immediate results, patient satisfaction, etc. Plus the MDI's can't all fail at one time and if one fails, it would seem to be a rather simple matter to back it out, replace it and go down the road."

Edwin P. Seaberg, DDS - Tulsa, Oklahoma

"I'm a general dentist in Unionville, Ontario, a Toronto suburb. I've had substantial experience placing the IMTEC MDI's. Here are typical comments from my MDI patients: 'Excellent. The denture does not feel foreign any more.' 'I haven't been able to eat this well in 30 years. My lower denture doesn't move around when I speak.' 'I love it! You're a great dentist! You are the number one dentist!' I ask: How many patients are overjoyed about having a complete lower denture? These patients were thrilled with the results. It's very gratifying to me as a dentist and for my staff to offer this type of service for our patients."

lan Erwood, DDS - Toronto, Canada

How can I locate a doctor in my area that has experience in placing the Sendax MDI?



Log onto IMTEC's website, www.imtec.com and click on Doctor Locator, or go online to www.minidentalimplants.com and click on Find a Dentist. Doctors in various locales who have attended MDI seminars and teaching courses and who have experience in placing the mini dental implants are listed. Another alternative is to call IMTEC or send the company an e-mail. A response will be forwarded the same day of reciept of the inquiry.

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