

# Dental Implants

By: *Dr. Benjamin Oppenheimer*

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## ABOUT THE AUTHOR

Dr. Benjamin D. Oppenheimer is a graduate of the University at Buffalo School of Dental Medicine. There he received a Dean's letter for Academic Excellence as well as the [International Congress of Oral Implantologists](#) Achievement Award for his research on Mini Dental Implants. He is now one of the leading experts in the world on Mini Dental Implants. He has taught hundreds of dentists to use 'minis' and currently is a consultant to the [IMTEC Corporation](#), the manufacturer of the Mini Dental Implant product. He is also the author of a number of scientific journal articles on the subject.



As well as offering dental implants, Dr. Ben provides all aspects of patient care for adults and children in Amherst, NY. Dr. Oppenheimer also is the president of [Foundation Milling Centre, LLC](#), a dental contract manufacturing firm, and heads research and development for high tech dental products including their yttria-zirconia line of products and sintered diamond abrasives.

Dr. Oppenheimer also is a business consultant and Board member for Jenius Industries Inc. and VBS Holdings LLC both technology firms focusing on healthcare and Web 2.0 internet applications.

Dr. Oppenheimer conducts his practice with his wife, Dr. Julia Oppenheimer who focuses her dental practice on Endodontics and cosmetic. She offers a full range of general dental services including cosmetic dentistry. Prior to her interest in dentistry, Dr. Oppenheimer perused a career in fine arts. Her masters level education in sculpture and printmaking enhances her critical eye for esthetics in dentistry. Dr. Julia works with her husband Dr. Ben to offer a complete range of dental services together in one office.

## **Dr. Oppenheimer's Achievements Include:**

- Founding Diplomat of The International Academy of Mini Dental Implants
- Deans Letter for academic excellence State University of New York at Buffalo School of Dental Medicine
- International Congress of Oral Implantologists Award for Student Achievement
- International Student Foundation Chairman Alpha Omega
- Vice President Alpha Omega Student Chapter Buffalo
- President Alpha Omega Student Chapter Buffalo



## **Dr. Oppenheimer is an active member of:**

- ADA - American Dental Association
- NYSDA - NY State Dental Association
- Erie County Dental Association
- Eighth District Dental Society
- AGD - Academy of General Dentistry
- ICOI - International Congress of Oral Implantology
- Founding Diplomat IAMDI!! International Academy of Mini Dental Implants

## **Dr. Oppenheimer's Research Papers Include:**

- [Mini dental implants for long-term fixed and removable prosthetics: a retrospective analysis of 2514 implants placed over a five-year period.](#)
- [A simplified approach to implant dentistry with mini-dental implants](#)
- [Minimally Invasive Implantology: A new smile in 2 visits](#)

## **The Website:**

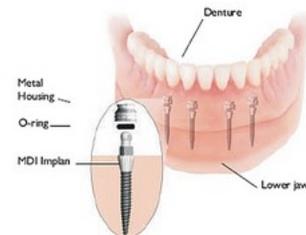
- <http://drmdi.com>

## WHAT ARE DENTAL IMPLANTS?

Dental implants are titanium posts that are surgically positioned into the jaw bone beneath your gums. Once in place, they allow the dentist to mount replacement teeth onto them.

### WHAT ARE MINI DENTAL IMPLANTS?

The Mini Dental Implant System consists of a miniature titanium implant, or screw that acts like the root of your tooth and a retaining fixture that is incorporated into the base of your denture. The head of the implant is shaped like a ball and the retaining fixture acts like a socket that contains a rubber O-ring. The O-ring snaps over the ball when the denture is seated and holds the denture at a predetermined level of force. When seated, the denture gently rests on the gum tissue. The implant fixtures allow for micro-mobility while withstanding natural lifting forces.



Mini Dental Implants

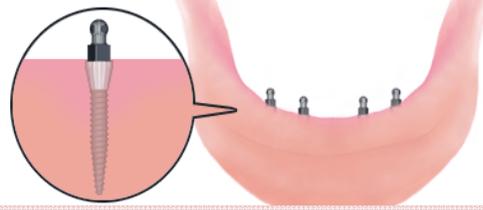
Late in 1997, Dr. Victor Sendax collaborated about his mini implant theory and design concepts with a colleague, Dr. Ronald Bulard. Dr. Bulard had previously formed a dental implant company, IMTEC Corporation, which was at the time, manufacturing and marketing standard sized dental implants, abutments, and other dental products. Convinced they were on to something special, the two Implantologists spent countless hours studying and refining Dr. Sendax's original creative design, resulting in a more efficient top and collar to the mini dental implants. Combining this now re-designed mini implant with Dr. Sendax's original insertion protocol resulted in a successful breakthrough. Under Dr. Bulard's direction, IMTEC Corporation began the rather complex and expensive design and manufacturing procedures which ultimately resulted in what is now offered to the dental community under the brand name IMTEC Sendax MDI (mini dental implant). The innovative system and procedure was thereafter formally introduced to the United States dental community at an implant conference in Orlando, Florida in April, 1999. It was an instant success and now represents one of the fastest growing segments of the dental product industry.

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### Is the Mini Dental Implant FDA Approved?

Yes. Prior to his preliminary discussions with Dr. Bulard, Dr. Sendax had submitted a formal application to the FDA in Washington, DC seeking permission to market the mini dental implant devices to the general public. After providing satisfactory technical and clinical evidence to that agency that the product was safe for public use and in fact had beneficial attributes, the FDA granted its formal consent to market the Mini Dental Implant device not only as a transitional or temporary dental product, but significantly, as a long-term item. (IMTEC was the first company to receive long-term approval of its MDI implants from the FDA, and for several years, was the only company to have that distinction.) As stated, IMTEC's introduction of the Mini Dental Implant to the dental industry and appropriate marketing efforts under a license granted by Dr. Sendax followed the [FDA's](#) consent to market.

## A Simple Dental Implant Procedure



The MDI system consists of a miniature titanium implant that acts like the root of your tooth and a retaining fixture that is incorporated into the base of your denture. Placement of the implants is accomplished quickly and easily in a process performed in the dentist's office. The procedure generally takes just over 1 hour. It is a one step procedure that involves minimally invasive surgery, no sutures nor the typical months of healing.



## When can Mini Dental Implants be used?

When critically needed for support purposes, and where solid bony adaptation (integration) has clearly occurred, mini implants can function as long-term supporting structures rather than as short-term or medium term devices. In fact, some have been successfully functioning in patients' jaws for several decades. In the past several years, some clinicians have been utilizing MDI's for single tooth replacements and in crown and bridge cases.

## What's the primary and most effective use for Mini Dental Implants?

The most effective use of this unique dental product is stabilization of a lower denture. There are approximately 50,000,000 people in the United States who are "edentulous" (literally meaning lacking teeth) who struggle daily with prosthetic devices. A majority suffer a great deal of discomfort as a result of loose or ill-fitting dentures. 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 Mini Dental Implant addresses and solves all of these social and practical problems. Denture patients all over the world have experienced relief from loose or ill-fitting dentures from doctors who are trained to place the MDI. Uniquely, the MDI can be utilized to stabilize a denture in a couple of hours by a trained doctor, with the patient leaving the clinic with a stabilized prosthesis..

## How specifically can Mini Dental Implants help denture wearers?

The standard insertion protocol for mini dental implants calls for four of them to be gently screwed into the front of a patient's lower jaw. This is a relatively painless procedure that can be performed by a general dentist, requiring only a mild anesthesia. The mini dental implants, which are approximately the size of wooden toothpicks, are placed about five millimeters apart in the patient's mandible. The patient's denture is then carefully adjusted by the dentist to allow it to snap onto the four mini implants. The result is a tight fitting, completely reliable system that allows a patient to speak and eat with confidence. The Mini Dental Implants are placed in about an hour's time. Because of the unique, minimally

invasive procedure, the minute size of the implants, and the characteristic placement area, the typical Mini Dental Implant patient can enjoy a light meal an hour or so after having the mini implants placed. Further, a denture patient who has had his or her prosthesis stabilized with MDI can remove and replace the denture easily after a little practice, and can easily utilize good dental hygiene. All in all, the MDI is quite satisfying.

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

It's true that what the dental profession calls occlusal forces create dynamic pressures on the human jaw. Our jaws are 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 metal, in its commercial form, is incredibly strong and durable. The Sendax Mini Dental Implants takes that metallurgical concept to the next level by adapting an industry approved alloy of titanium. The result is the strongest metal 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 at Dr. Sendax's behest revealed that the particular titanium alloy implants used in the IMTEC Sendax Mini Dental Implants are 64% stronger than ones constructed of commercially pure titanium. The bottom line of this discussion area 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 chewing forces just like natural teeth. Fractures are extremely rare, but as the case with a person's normal teeth, can certainly occur.

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How long are the Mini Dental Implants?

IMTEC Corporation manufactures and sells the Mini Dental Implants in four lengths, 10, 13, 15 & 18 mm's. 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 Mini Dental Implant patients.

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I've been told by my dentist that my jaw bone is not "dense." Is this a problem with Mini Dental Implants? Will a dentist be able to get a rock-solid resistance state in such a situation?

After utilizing the standard Mini Dental Implants in his practice, Dr. Bulard quickly anticipated this type of dental patient, and as a result, took steps to expand IMTEC Corporation's original production offering to provide a MAX Mini Dental Implant. Equipped with the same dimensions as the standard ones, the MAX implant has a different thread design that enables it to bite into softer bone and hold. It's ideal for a patient whose bone density is lacking.

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## What about failures with Mini Dental Implants?

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 as to longevity. However, the loss of a Mini Dental Implant is a far less critical event to the patient since it may be replaced at relatively minimal cost compared to conventional implants, and with minimal associated bone or gum deterioration.

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## How are Mini Dental Implants different?

As a revolutionary departure from routine dental implant methods, Mini Dental 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 implant systems, is avoided in most Mini Dental Implant 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 nerve, sinus or bony structures, the ultra small width of the mini implants offers a much more comfortable margin of safety.

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## What type surgery is involved with Mini Dental Implants?

A single, minimally invasive surgery is needed for insertion of the Mini Dental Implants. The implants 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. Mini dental implants clearly represent an enormous breakthrough for the dental implant specialty as the most patient-friendly, cost-effective, proven dental implant system available today.

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## What will my first day be like with Mini Dental Implants?

Leave the denture in place until bedtime. You should not experience any excessive bleeding. There will be some mild discomfort but this should be minimal and controlled by recommended pain medication. The denture should feel secure. You may eat as soon as you wish to avoid excessively hard or sticky foods at first. Upon removing the denture, rinse your mouth with an antiseptic mouthwash and carefully clean around each implant fixture with a cotton swab and toothpaste. Use a cotton swab for three days. After that, use your ACCESS toothbrush. It has been specially designed to clean your implants and gently stimulate the surrounding gum tissue.

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## How do I place & remove my dentures?

The Mini Dental Implants and O-ring fixture must be clean and free from debris. Grasp the denture with both hands and lightly seat the denture, feeling that the O-rings are resting

above the ball head of the implants, then press down firmly and equally on both sides. Make sure that you feel the implant heads easily fitting each O-ring. You will feel the denture snap into place. If you have trouble seating your denture, first make sure the implants and your denture are absolutely clean. Secondly, make sure that you push downward equally on both sides. If you are still experiencing difficulty, see if a family member can give you assistance. To remove the denture, place your thumbs under each side of the lower denture rim and gently push both sides upward at the same time.

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[What's a typical daily routine one might expect once the Mini Dental Implants have been placed?](#)

As with all dental applications, there's a short adjustment period during which time you become 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, rinsing the mouth, rinsing the denture itself and then replacing it.

You must clean and brush the ball of the implant as if they were your natural teeth. As with natural teeth food and bacterial debris must be removed or inflammation of the gums will occur. In addition, food and debris can be forced into the O-ring fixture causing improper seating and loss of retention. The O-ring fixture must also be cleaned out.

The result is a normal day's activity for you, including eating, talking, taking a nap, etc. Then, in the evening, the denture is usually removed again, the ACCESS brush is used, and the mouth thoroughly rinsed. The result is a fully functioning dental appliance that works.

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[What about the cost of Mini Dental Implants?](#)

Mini Dental Implants are surprisingly affordable, and are usually available at a fraction of the cost of traditional implants. 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 ill-fitting denture. That's worth a lot.

Most every reputable dentist employing mini dental implant technology has financing programs available.

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[How long do dental implants last?](#)

Dental implants generally last ten to twenty years. This depends on the location of the implant and patient compliance with oral hygiene and dental visits. Because molars receive more stress and wear, these implants typically do not last as long as implants located at the front of the mouth.

## BEFORE & AFTER PICTURES



Mini implant posts immediately after placement in lower jaw.



Completed dentures attached to mini implants.

### Mini Dental Implants



Mini Dental Implant and Crown



### Mini Dental Implants



4 Mini Implants to stabilize lower denture



### Dental Implant



Dental Implant to replace missing Lateral Incisor



## WHERE WOULD YOU LIKE YOUR SMILE TO BE?

By now, you have probably done a fair amount of research and have a pretty good idea what the dental implant procedure is all about. You may also be reading this publication and wishing that you had already undergone the procedure and had the perfect smile that you deserve.

There is only one way to achieve that goal. You need to take action. You can easily pick up the phone right now and call your dentist or a dentist who is proficient in dental implant technology. Most every reputable dentist will offer a free, no obligation consultation. Just ask! As you pick up the telephone, you will have taken that all important first step to a beautiful smile.

### **MORE INFORMATION:**

Our Website: <http://DrMdi.com>

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