bicon®
DENTAL IMPLANTS

UK

# SHORT™ IMPLANTS





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DENTAL IMPLANTS

**"An implant's design dictates its clinical capabilities"**


Bicon's Patented SHORT® Implants

The Bicon System is a unique dental implant system, offering the worldwide dental community a comprehensive solution since 1985. Bicon's engineers and clinicians have been responsible for many of the innovations in implant dentistry for decades.

Bicon's unique plateau design follows sound bioengineering principles which allow for the use of SHORT® Implants. Its unique bacterially-sealed, locking taper, implant to abutment connection provides for 360˚ of universal abutment positioning — *offering restorative flexibility unmatched by other implant systems.* The sloping shoulder of the Bicon implant consistently provides for gingivally aesthetic restorations, which are easily achieved because the bone that is maintained over the shoulder of the implant provides support for the interdental papillae.

Bicon's unique design and its revolutionary clinical techniques have not only passed the test of time, but also continue to lead implant dentistry. We welcome your joining Bicon clinicians from around the world, so that both you and your patients may also enjoy the clinical benefits of Bicon.

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*"I have been placing Bicon implants since 1997, and love their simplicity and reliability. I've been using the Bicon SHORT™ Implant since it first came out in the UK.*

*Although I am experienced in all types of bone grafting for dental implants, this SHORT™ Implant frequently allows my patients to avoid the need for any grafting at all. I have to worry less and less about sinuses and nerves as the SHORT™ Implant allows me to stay well away from them—patient acceptance for implant treatment soars when you don't have to tell them about bone grafts!"*

**Bill Schaeffer, Oral Surgeon**

*"With over 25 years of experience, I enjoy the challenge of performing bone augmentation procedures when the necessity arises. However, my patients are often not so eager to undergo grafting procedures — and their reluctance can be a roadblock to successful implant treatments. With the advent of Bicon's 6.0mm SHORT™ Implants, I have been able to treatment plan many cases as routine implant placements without grafting with its additional expense for my patients. The Bicon SHORT™ Implant greatly increases case acceptance and has allowed me to place many more implants without reservations about their success."*

**Joseph Leary, Periodontist**

4.0 x 5.0mm

4.5 x 6.0mm

5.0 x 5.0mm

5.0 x 6.0mm

6.0 x 5.0mm

6.0 x 5.7mm

## Why SHORT® Implants?

**Bicon SHORT® Implants** offer flexibility to dentists in challenging clinical situations. The short lengths allow clinicians to avoid vital structures with confidence, and can eliminate the need for many grafting procedures. With Bicon, longer implant lengths are not necessarily better. In many clinical situations, shorter implants offer a better solution.

# SHORT™ IMPLANTS

### With Bicon's SHORT® Implants you can:

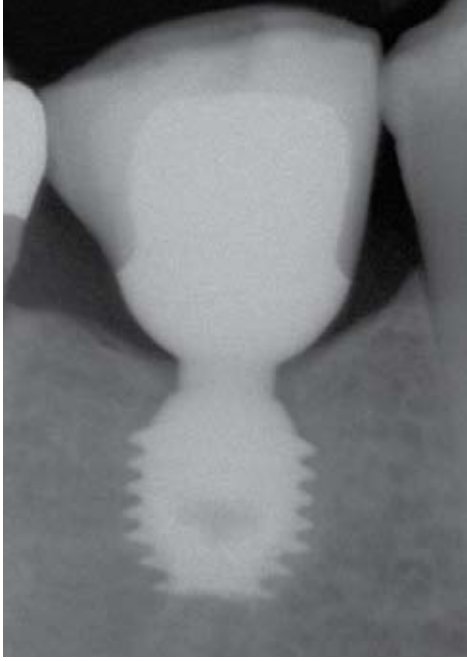
- Avoid vital structures
- Minimize bone grafting procedures
- Maximize implant placement possibilities
- Increase patient acceptance
- Offer a clinically proven solution
- Offer single unit restorations without splinting

## The Dentist

The clinical reality is that many potential implant patients have limited bone height. When placing longer implants, the maxillary sinus and inferior alveolar nerve often present risks. Although bone grafting procedures help alleviate these risks, patients may still avoid treatment because of the financial costs and time for grafting procedures. Additionally, bone grafting procedures have their own inherent risks and morbidities – which patients often find unacceptable. Bicon SHORT® Implants afford simpler and consistently more predictable treatments, which can significantly increase a patient's acceptance of implant treatment.

## The Patient

With the use of Bicon SHORT® Implants, patients with limited bone height can often avoid the inherent risks and costs associated with bone grafting procedures. Additionally, the extended healing time and cost of bone grafting procedures are eliminated.



**6 Years**

## HISTORY OF THE SHORT® IMPLANT — CLINICALLY PROVEN SINCE 1985

**1968**
Tom Driskell begins implant design research which enables the routine use of short lengths.

**1985**
Bicon's implant system is introduced, including 8.0mm length implants which were considered very short at the time.

**1997**
Clinical trials begin on the 6.0 x 5.7mm implant.

5.0 x 8.0mm implant with 3.0mm well introduced.

**2000**
4.5 x 8.0mm implant introduced and receives FDA clearance.

**2002**
6.0 x 5.7mm implant introduced and receives FDA clearance.

**2004**
5.0 x 6.0mm implant introduced and receives FDA clearance.

**2006**
4.5 x 6.0mm implant introduced and receives FDA clearance.

**2008**
6.0 x 5.0mm implant introduced and receives FDA clearance.

5.0 x 5.0mm implant introduced and receives FDA clearance.

**2009**
4.0 x 5.0mm implant with 2.5mm internal connection receives FDA clearance.

**2011**
26th anniversary of 8.0mm lengths.

14th anniversary of 5.7mm lengths.

## Selected Research

Bicon's Research focuses on a design that has remained unchanged since 1985. While other manufacturers claim decades of research, most of their research was conducted on designs that are no longer in clinical use. Please find selected research on the Bicon SHORT® Implant below:


- Urdaneta, R., Rodriguez, S., McNeil, C., Weed, M., and Chuang, S., *The Effect of Increased Crown-to-Implant Ratio on Single-Tooth Locking-Taper Implants*, The International Journal of Oral & Maxillofacial Implants, Vol. 25, No. 4, p. 729-743, July/August 2010.
- Venuleo, C., Chuang, S.K., Weed, M., Dibart, S., *Long term bone level stability on SHORT® Implants: A radiographic follow up study*, Indian Journal of Maxillofacial and Oral Surgery September 2008, Vol. 7: No.3, p. 340-345.
- Schulte, J., Flores, A., and Weed, M., *Crown-to-Implant Ratios of Single Tooth Implant-Supported Restorations*, Journal of Prosthetic Dentistry, Vol. 98, Issue 1, p. 1-5, July 2007.
- Gentile, M., Chuang, S.K., and Dodson, T., *Survival Estimates and Risk Factors for Failure with 6.0 x 5.7mm Implants*, The International Journal of Oral & Maxillofacial Implants, Vol. 20, No. 6, p. 930-937, November/December 2005.
- Bozkaya, D., Müftü, S., and Muftu, A., *Evaluation of Load Transfer Characteristics of Five Different Implant Systems in Compact Bone at Different Load Levels by Finite Element Analysis*, Journal of Prosthetic Dentistry, Vol. 92, No. 6, p. 523-530, December 2004.

# Would you like to...

## ▸ Avoid the Inferior Alveolar Canal?

**4 Years**

Three 5.0 x 6.0mm SHORT® Implants supporting three Bicon Integrated Abutment Crowns™ for restoring the posterior mandible. Note level of inferior alveolar canal.

**4 Years**

Two 5.0 x 6.0mm SHORT® Implants supporting two Bicon Integrated Abutment Crowns™ for two mandibular right molars. Note level of inferior alveolar canal.

**7 Years**

A 6.0 x 5.7mm SHORT® Implant supporting a Bicon Integrated Abutment Crown™ for a mandibular left first molar.

**5 Years**

A 6.0 x 5.7mm SHORT® Implant supporting a Bicon Integrated Abutment Crown™ for a mandibular left first molar.

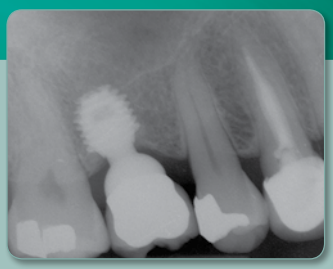
## ▸ Avoid the Maxillary Sinus?

**6 Years**

A 6.0 x 5.7mm SHORT® Implant supporting a Bicon Integrated Abutment Crown™ for a maxillary left first molar. Note level of maxillary sinus.

**4 Years**

A 5.0 x 6.0mm SHORT® Implant supporting a Bicon Integrated Abutment Crown™ for a maxillary left second molar. Note level of maxillary sinus.



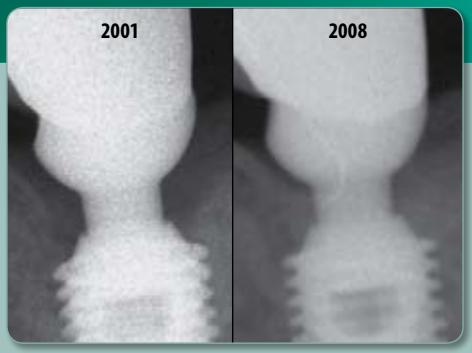
**12 Years**

A 6.0 x 5.7mm SHORT® Implant supporting a PFM crown for a maxillary right first molar. Note level of maxillary sinus.

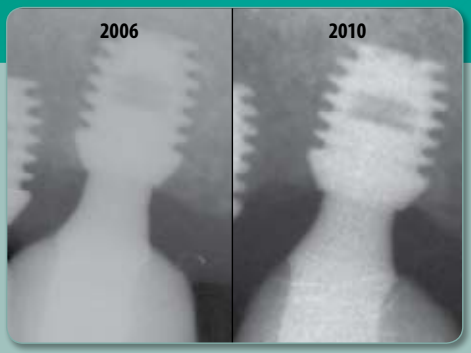
**7 Years**

A 6.0 x 5.7mm SHORT® Implant supporting a Bicon Integrated Abutment Crown™ for a maxillary right first molar. Note level of maxillary sinus.

## ▸ Enjoy the Benefits of the Bicon System?




**Bone *growth* over time.**

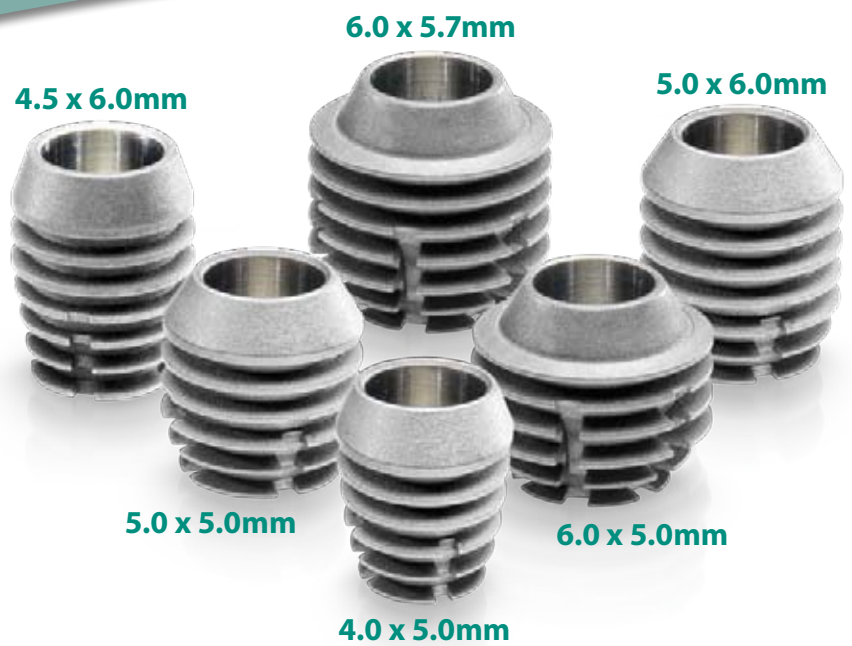



**Bone *growth* over time.**


Image courtesy of Zeidonis Skobe, Ph.D., Forsyth Institute and Harvard University, Boston, MA and Thomas G.H. Diekwisch, DDS, Ph.D., UIC College of Dentistry, Chicago, IL

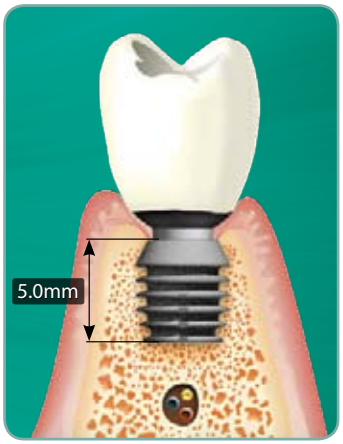
**Sealed connection.**

# Bicon SHORT® Implants



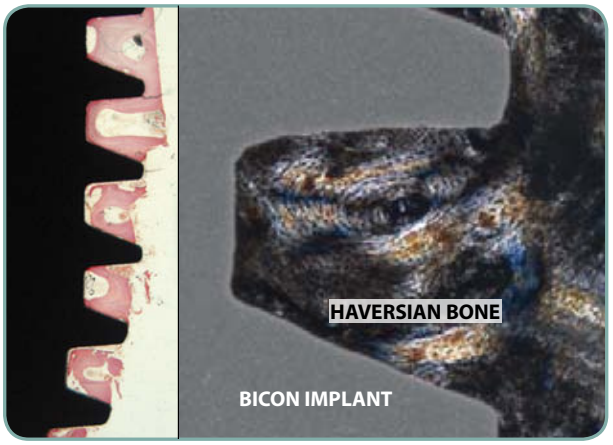

## Simplicity and Versatility

SHORT® Implants maximize implant placement possibilities and minimize the need for grafting procedures.




## Plateau Design

Bicon's plateau or fin design offers at least 30% more surface area than a screw implant of the same dimensions and allows for the callus formation of mature, cortical-like, haversian bone between the fins of the implant.




Images courtesy of Paulo G. Coelho, Ph.D., New York University and Jack E. Lemons, Ph.D., University of Alabama at Birmingham

Since 1985 » Simple. Predictable. Profitable.

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