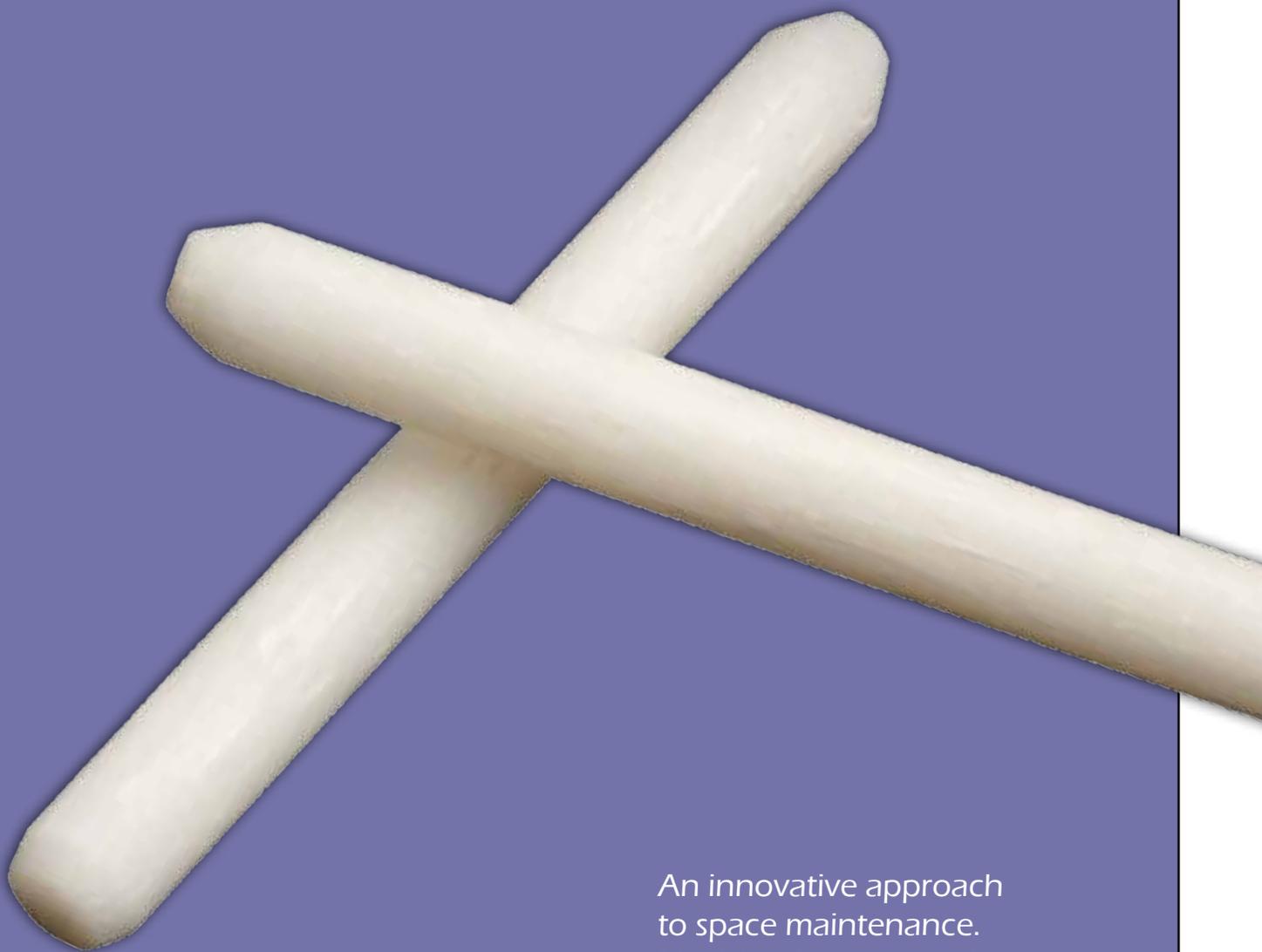


BonePin

Cortical Allograft



An innovative approach
to space maintenance.
Machined — not metal.

BonePin

Cortical Allograft

Exactech's precision cortical allograft bone pin for dental surgical procedures is easy-to-use. It comes pre-formed to exact specifications the surgeon can depend on time after time. Allograft cortical bone pins have been used in orthopaedic surgical procedures such as bunionectomies, radius/scaphoid fixation and hand surgery.

In dental procedures, cortical bone pins have been used to add additional support to the grafted site and deter the collapse of the barrier membrane into the surgical site.

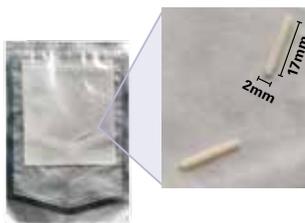
Historically, titanium screws have been used as a means of maintaining space and preventing membrane collapse at a newly grafted site. Once placed, the cortical bone pin remodels, along with the newly placed graft, and thus eliminates the need for retrieval and possible defect that can be created by removal of a titanium screw.¹

Cortical Allograft Bone Pin

- Processed through the BioCleanse[®] process, lyophilized and terminally sterilized
- May be stored at room temperature
- Smooth and processed from dense, cortical bone and may be additionally shaped
- Recommended to be hydrated with sterile saline for a minimum of 30 seconds prior to implantation. For maximum mechanical property, hydrate for one hour.
- Packaged two to a sterile pouch
- 2mm x 17mm

Product Available

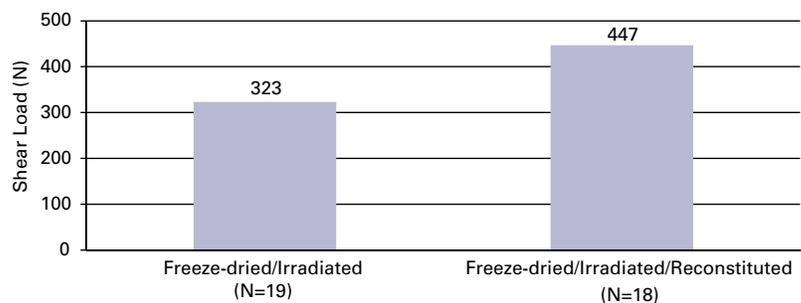
531217 Cortical Allograft Bone Pins



Mechanical Properties

A double-tap shear test was performed to determine the resistance of the pins to shear loading. Testing performed on 2mm pins that were freeze-dried and irradiated had mean shear strength of 323 N, but similar pins which were reconstituted in saline for one hour had a breaking strength of 447 N.^{4,5}

Shear Load of Cortical Allograft Bone Pins^{4,5}



References

1. **Stadeker WJ.** Grafting with cortical bone pins (The Alabama Graft). *Inside Dentistry*. April 2009
2. Photo courtesy of Wilkie J. Stadeker, DDS
3. Photo courtesy of Jeffrey Lemler, DDS
4. **Squillace D, Summitt M, Bianchi J.** Proposed standards for testing the biomechanical properties of cortical bone [abstract]. American Association of Tissue Banks 25th annual meeting program; 2001 Aug 25-29; Washington. 4. Squillace D, Summitt M, Bianchi J. Proposed standards for testing the biomechanical properties of cortical bone [abstract]. American Association of Tissue Banks 25th annual meeting program; 2001 Aug 25-29; Washington.
5. Data on file at Exactech.

Cortical Allograft Pins are processed by RTI Biologics, Inc. and distributed by:

866-284-9690
www.exac.com/dental



717-05-10
Bone Pin Sell Sheet 0809

