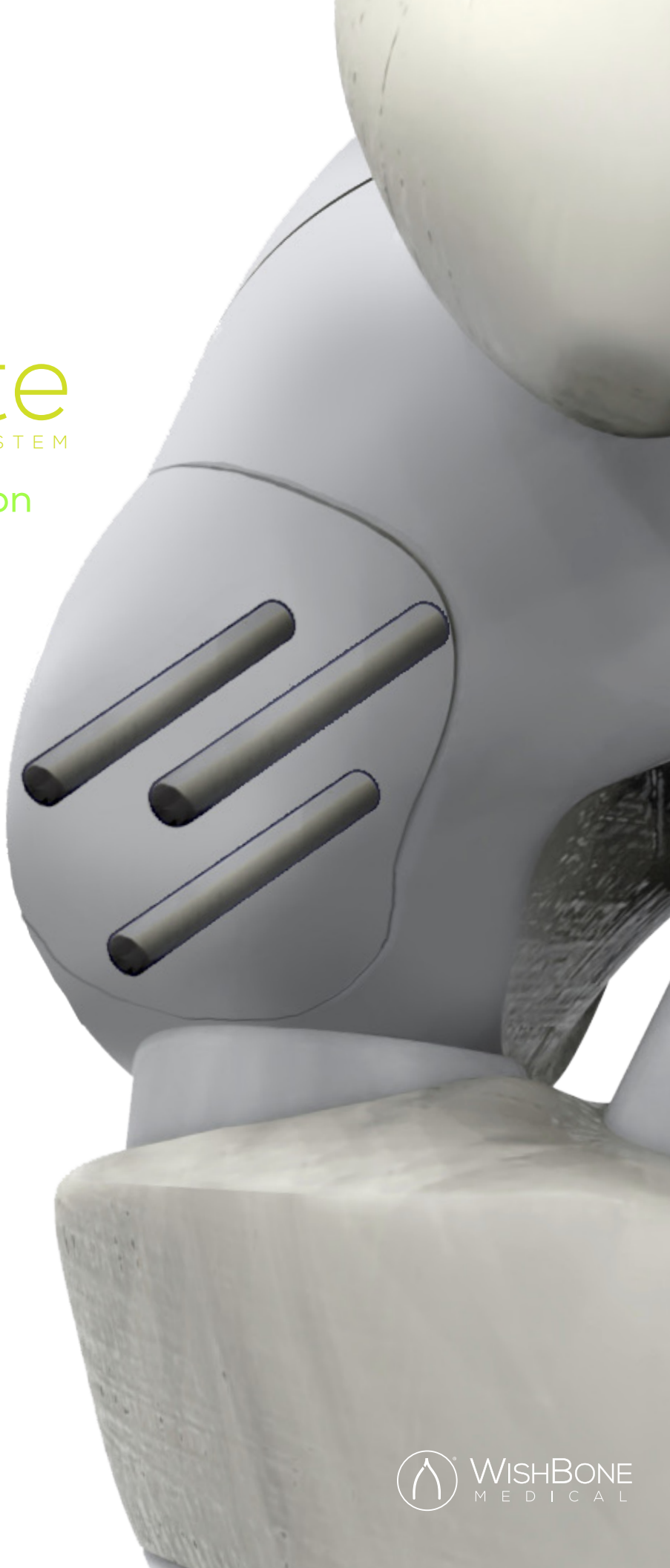
ALLOMate

BONE PIN SYSTEM

Arthroscopic OCD Lesion Surgical Technique



WishBone Medical

Single-Use. Sterile Packed

AlloMate Bone Pins are precision-machined from sterilized human cortical bone. Arthroscopic instrumentation supports implantation of 2.0mm in diameter Bone Pins. AlloMate Bone Pins are 45mm in length and able to be trimmed to the specific length required for each patient.

The AlloMate Arthroscopic OCD Instrument System is used to facilitate arthroscopic implantation of Bone Pins in pediatric and adult orthopedic and reconstructive procedures used for maintenance of alignment and fixation of bone fractures, osteotomies, arthrodesis, or bone grafts in the presence of appropriate additional immobilization (e.g., cast, brace). AlloMate Bone Pin instrumentation is single-use and sterile packaged, eliminating the need for set reprocessing while potentially reducing infection risks and improving hospital efficiencies[1,2]. Complete procedure kits are designed to avoid delays or cancellations attributed to missing or damaged components. Readily available for immediate use, individual kits deliver sharp and pristine instruments --new for each procedure.

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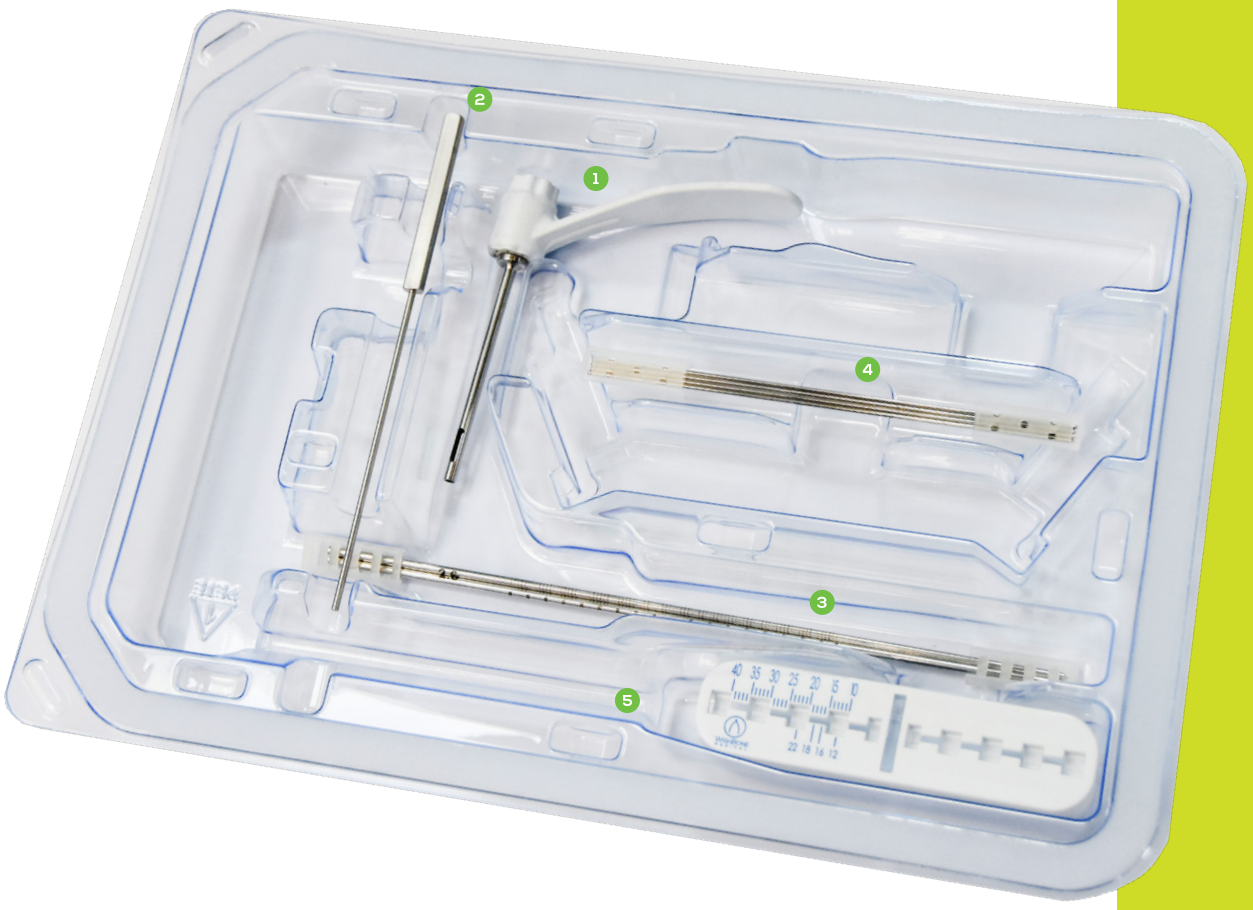
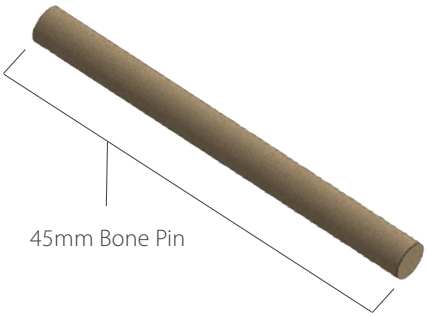
System Components



ALLOMATE ARTHROSCOPIC OCD INSTRUMENT SYSTEM

1. 2.0mm Bone Pin OCD Arthroscopic Inserter
2. 2.0mm Bone Pin OCD Tamp
3. 2.1mm OCD Graduated Pin Reamer (2)
4. 1.25mm Fixation Pin, 130mm Long (4)
5. AlloMate Cutting Block



PIN DIAMETER
● 2.0mm

Pins are not included in instrument kits

SURGICAL TECHNIQUE

1. Place the AlloMate Bone Pin in sterile saline for at least 15 minutes prior to insertion. (**Fig. 1**)

Fig. 1

2. After performing the necessary osteochondral fragment reduction, introduce the OCD Arthroscopic Inserter into the joint. (**Fig. 2**) Be sure the guide shaft is perpendicular to the joint surface. The Inserter can be fixed in place by drilling 1.25mm K-wires through the perimeter holes, or atraumatic compression can be applied to the fragment throughout the procedure. (**Fig. 3**)

Note: The AlloMate Arthroscopic OCD Instrument Set contains four 1.25mm K-wires.

Fig. 2

Fig. 3

SURGICAL TECHNIQUE, CONT

3. Insert the Graduated Pin Reamer through the central hole of the Inserter and ream through the fragment and into the underlying bone until the desired reaming depth has been achieved. (**Fig. 4**)

   The Graduated Pin Reamer has pin length markings on the proximal and distal end for referencing pin length based on surgeon preference. (**Fig. 5**)

   If the Bone Pin length is referenced on the distal end of the reamer through the guide shaft window, utilize the etch marking on the guide shaft window to reference the reamed depth. (**Fig. 6**)

   Note: AlloMate Bone Pins should be countersunk 1-2mm below the articular cartilage to avoid impingement with neighboring articular surface. Take this into consideration when determining the final reaming depth and Bone Pin length.

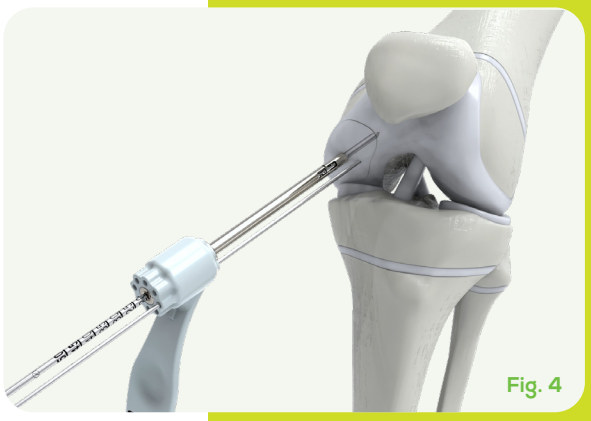


Fig. 4

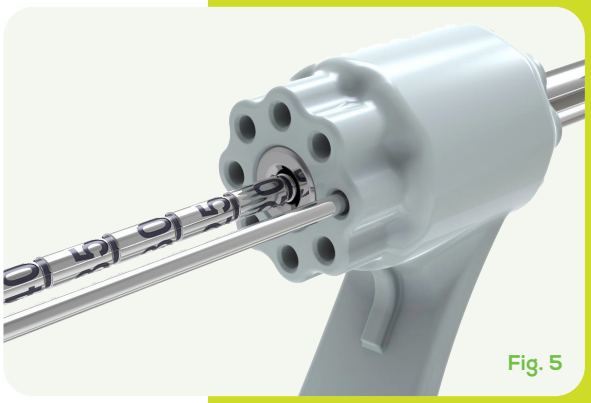


Fig. 5

Fig. 6

SURGICAL TECHNIQUE, CONT

4. Using the reamed depth from Step 3, trim the AlloMate Bone Pin to the desired length using a power saw and the Measurement Cutting Device. The OCD Tamp may be used to hold the AlloMate Bone Pin during cutting. The Bone Pin should be cut so that countersinking below the articular surface is possible. (**Fig. 7**)

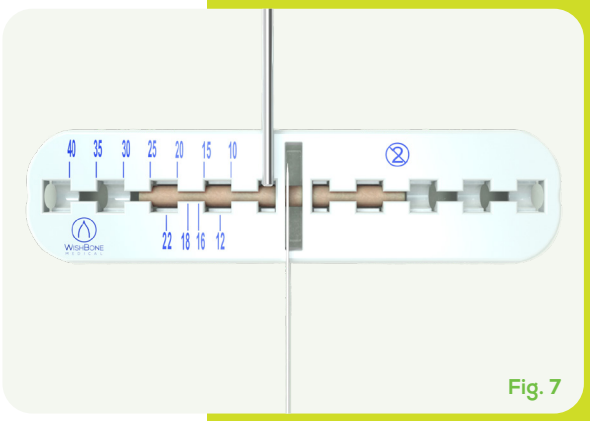


Fig. 7

5. Insert the Bone Pin into the central hole of the Inserter. Then insert the OCD Tamp into the central hole of the Inserter. By hand or with light taps of a mallet advance the Bone Pin into the pre-reamed hole using the OCD Tamp. (**Fig. 8**)

Fig. 8

When the OCD Tamp handle is fully seated against the Inserter, the final position of the Bone Pin should be recessed 1-2mm below the articular cartilage surface to avoid impingement. The Arthroscopic Inserter has a window at the tip of the guide shaft to allow for visualization of the Bone Pin during insertion. (**Fig. 9**)

Fig. 9

6. Depending on the size of the lesion, multiple AlloMate Bone Pins may be needed. Repeat steps #2-5 if using the remaining uncut length from the first Bone Pin selected, or select a new Bone Pin and repeat steps #1-5. (**Fig. 10**)

Fig. 10

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[1] Apurva Shah, MD, MBA. The Value Proposition of Single-Use Sterile Procedure Kits. May 2021

[2] Siegel GW, Patel NN, Milshteyn MA, Buzas D, Lombardo DJ, Morawa LG. Cost Analysis and Surgical Site Infection Rates in Total Knee Arthroplasty Comparing Traditional vs. Single-Use Instrumentation. The Journal of Arthroplasty, Volume30, Issue 12, P2271-2274, December 01, 2015

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The AlloMate Bone Pin System is only available as single-use, sterile packed kits. Always confirm product expiration date prior to use. Bone Pins manufactured for WishBone Medical.

Caution: Federal law restricts this device to sale by or on the order of a physician.

For product information, including indications, contraindications, warnings, precautions and potential adverse effects, visit WishBone Medical's Instructions for Use page online: **www.WishBoneMedical.com/IFU.**

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