



# The Implant Solution for Restoration of Sagittal Alignment

2019 Product Catalog



## Kiva® VCF Treatment System

#### What is Kiva?

The Kiva® VCF Treatment System is an implant solution for treating vertebral compression fractures (VCFs). The implant is made from PEEK-OPTIMA® and replaces bone cement as the primary structural support needed for the fractured vertebra. PEEK, a biocompatible polymer widely used and well-accepted in spinal implants, approximates bone characteristics. In three Level I/II clinical studies, the Kiva® System was shown to meet or exceed the performance of balloon kyphoplasty (BKP).<sup>12</sup>

#### How does Kiva work?

Kiva is a Unipedicular System. The Kiva Implant is delivered percutaneously over a removable guide-wire in a continuous loop into the vertebral body through a small diameter, single incision. The amount of the implant delivered is physician-customized during the procedure to adjust to vertebral compression fracture morphologies. Once the Kiva Implant is positioned in the center of the vertebra, bone cement is introduced through the implant to stabilize the fracture. Bone cement is delivered simultaneously through both the access cannula and the implant, reducing the added steps that other systems require.

2 2019 Product Gu



# Procedural Steps for Kiva® VCF Treatment System









- 1 A coil is advanced to create a path through the vertebral body bone and provide a pathway for the Kiva Implant
- 2 As the loops of the Kiva Implant are delivered into the bone, they form a column structure.
- 3 The coil is removed and the Implant is left in place providing a path for the delivery of bone cement.
- 4 Once cured, the cement interlocks the Implant to the bone.

Contact Us US / 800 231 1499 Int'l / + 1 410 594 9403 IZIMed.com





#### ORDER INFORMATION

#### **Kiva System Kits**

SET ORDER NUMBER	DESCRIPTION
KIV2100	Kiva VCF (Treatment System Kit, Right
KIV2200	Kiva VCF Treatment System Kit, Left

#### **Kiva Accessories A La Carte**

SET ORDER NUMBER	DESCRIPTION
PLT2100*	Pilot, Right
PLT2200*	Pilot, Left
ACC5350	Ultraflex Cement Needle
ACC5270	Working Cannula, 6G
ACC5225	Bone Drill, 7G • 17 cm
G13018	Access Needle, Diamond Tip, 11G • 10 cm
G13761	Access Needle, Bevel Tip, 11G • 10 cm
G36211	Access Needle with Coaxial Biopsy, Diamond Tip, 11G • 10 cm

<sup>\*</sup>Pilot is an accessory used in conjunction with Kiva if hard bone is encountered. Pilot contains a thicker Nitinol coil which cuts through bone to create space for the Kiva Nitinol coil.

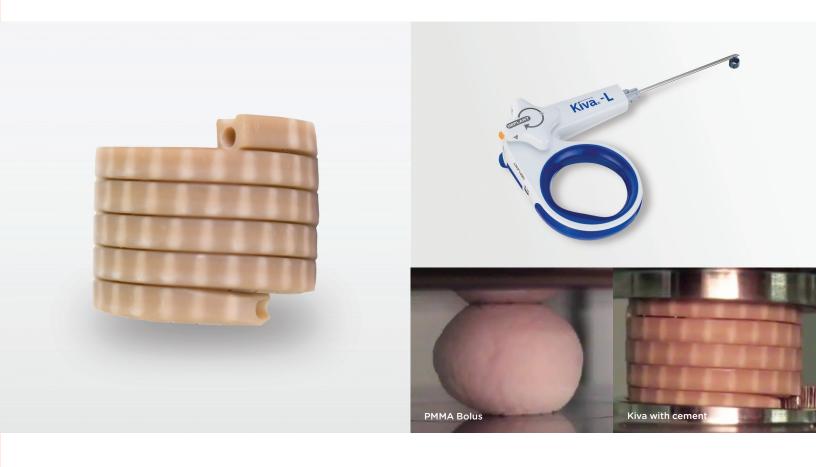
#### **Cements & Mixers**

SET ORDER NUMBER	DESCRIPTION
G80000	Osteo-site Mixing & Injection System
G90002	Vertefix Plus Bone Cement

4 2019 Product Guide



5



## Biomechanical & Biomaterial Advantages of the Kiva Implant

A bench test material comparison demonstrated that the Kiva Implant is 63% less rigid than PMMA bone cement alone, which may reduce the risk of adjacent level fractures.<sup>1,2,3</sup>

Compression testing at same rate to identical peak load (.5Hz, 300-3000N)

Contact Us US / 800 231 1499 Int'l / + 1 410 594 9403 IZIMed.com



### Kiva® Clinical Data

#### **Clinical Studies**

KAST: The Kiva® System as a Vertebral Augmentation Treatment – A Safety and Effectiveness Trial.

**Design:** Prospective, randomized clinical trial to evaluate the safety and effectiveness, and support non-inferiority of the Kiva® VCF Treatment System versus balloon balloon kyphoplasty: 300 patient trial

Authors: Tutton, Garfin, et al. Publication: Spine, June 2015

Balloon Kyphoplasty Versus Kiva® Vertebral Augmentation. Comparison of two Techniques for Osteoporotic Vertebral Body Fractures. A Prospective Randomized Study.

Design: Prospective, randomized study:

168 patients treated

Authors: Korovessis, et al.

Publication: Spine, February 2013

#### **Key Findings**

#### Kiva® Compared to BKP:

- Similar pain reduction and function improvement
- Reduced rate of adjacent level fractures -per protocol population
- 50% less cement volume used
- Significantly reduced rate of extravasation as reported by investigators

#### Kiva® Compared to BKP:

- Similar pain reduction, function and QOL improvement
- Significantly reduced kyphosis (i.e. restoration of Gardner angle)
- Lower extravasation rates
- Lower cement volume used

Comparison of Balloon Kyphoplasty with the new Kiva® VCF System for the Treatment of Vertebral Compression Fractures.

Design: Matched pairs study of Kiva® vs. balloon kyphoplasty with Medtronic balloons: 52 patients

Authors: Otten, Pflugmacher, et al.

Publication: Pain Physician Journal, October 2013

#### Kiva Compared to BKP:

- Significantly fewer new fractures after treatment
- Mean cement used was less than half with Kiva®
- Significantly greater pain reduction at 6 months

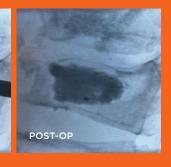
6 2019 Product Guide



## The Implant Solution for Restoration of Sagittal Alignment









PRE-OP



#### Structural Support

- natural bone structure
- Predictable structure restores

#### Predictable, Published Results

- fractures vs. BKP<sup>2</sup>

Contact Us

# About IZI Medical Products

Based in Owings Mills, Maryland, just outside Baltimore, IZI is a leading innovator, manufacturer, and distributor of quality medical devices that provides the continuity our healthcare partners need to succeed. Over the last three decades, IZI has built a diverse portfolio of products backed by strong intellectual property and currently sells to more than 1,000 domestic customers as well as internationally across 25 countries. IZI's portfolio of high-quality medical consumable devices are used in interventional radiology and oncology, radiation therapy, neuro-spine, and image guided surgery procedures

Our mission is to improve each patient's quality of life by providing our healthcare professional partners a complete portfolio of clinically proven, high value, and innovative medical device solutions inspired by physicians, for physicians. With this mission in mind, our vision is to become a leader in diagnostic and therapeutic minimally invasive solutions to advance healthcare and improve patients' lives.

Please call 800.231.1499 or +1.410.594.9403 for product samples, or visit IZIMed.com for more information.

We pride ourselves on our responsive service and prompt delivery.

When ordered by 4pm Eastern Standard Time (EST), products are shipped same day.

#### IZI Medical Portfolio also includes products for:

- Biopsy
- Diagnostic Radiology
- Image Guided Surgery

- Radiation Therapy
- Spine Solutions



5 Easter Court / Suite J Owings Mills, MD 21117 / USA P / +1800 231 1499 P / +1410 594 9403

IZIMed.com