



WishBONE Mg™
MAGNESIUM-BASED BONE VOID FILLER

STERILE IMPLANT KIT - Single-use Only

CAUTION: Federal (USA) LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

IMPORTANT INFORMATION FOR PHYSICIANS, SURGEONS, AND/OR STAFF

DESCRIPTION:

WishBONE Mg is a magnesium-based synthetic bone void filler that is drillable, resorbable, radiopaque, and osteoconductive. The WishBONE Mg Packet contains powder (Magnesium based compound) and a mixing solution (Buffered saline). The device is sterile, single use only.

WishBONE Mg is indicated as a bone graft substitute (used alone) to fill bone voids or defects of the extremities or pelvis; these defects may be traumatic or surgically created (including but not limited to: surgical excision of bony lesions, cysts, fibromas, or tumors; core decompression for avascular necrosis/osteonecrosis; excision and grafting of osteochondritis dissecans lesions).

WishBONE Mg is indicated as a bone graft extender used with autograft bone in the posterolateral spine.

INDICATIONS:

WishBONE Mg, Magnesium-Based BVF is intended for bony voids or defects of the extremities, posterolateral spine, and pelvis that are not intrinsic to the stability of the bony structure. These defects may be surgically created osseous defects or osseous defects created by traumatic injury to the bone. WishBONE Mg, Magnesium-Based BVF can be used as

an adjunct to conventional rigid hardware fixation by supporting the bone fragments during the surgical procedure only in the extremities and pelvis. Once the material has set, it acts as a temporary support medium and is not intended to provide structural support during the healing process. WishBONE Mg, Magnesium-Based BVF is intended to be placed into bony voids either before or after final fixation. WishBONE Mg, Magnesium-Based BVF is resorbed and replaced with bone during the healing process. WishBONE Mg, Magnesium-Based BVF must be used with morselized autograft bone at a ratio of 1:1 by volume in the posterolateral spine. WishBONE Mg, Magnesium-Based BVF is not intended to treat large defects that in the surgeon's opinion would fail to heal spontaneously.

CONTRAINDICATIONS

WishBONE Mg is not intended to provide structural support during the healing process. WishBONE Mg is contraindicated where the device is intended as structural support in the skeletal system.

WishBONE Mg is contraindicated for vertebroplasty or kyphoplasty, or pedicle screw augmentation.

Conditions representing relative contraindications include:

- Severe neurological or vascular disease
- Uncontrolled diabetes
- Hypercalcemia
- Pregnancy

Where stabilization of fracture is not possible

Segmental defects without supplemental fixation

Where there is significant vascular impairment proximal to the graft site

When there are systemic and/or metabolic disorders that affect the bone or wound healing

Any patient unwilling or unable to follow postoperative instructions.

WARNINGS:

1. Remove any excess WishBONE Mg, Magnesium-Based BVF prior to closure.
2. When used for filling defects of the extremities and pelvis, do not mix the product with any other substance.
3. When used in the posterolateral spine, the product must be used with morselized autograft bone at a ratio of 1:1 by volume.
4. Highly pressurized application of the product into confined space with ready venous or arterial access is not recommended.
5. Do not use product in infected sites.
6. Do not disturb placement site once the product begins to harden.
7. Do not overfill the defect area.
8. Do not reuse. The product is single-use only.

MRI Safety Information

WishBONE Mg has not been evaluated for safety in the MR environment. It has not been tested for heating or unwanted movement in the MR environment. The safety of WishBONE Mg in the MR environment is unknown. Performing an MR exam on a person who has this medical device may result in injury or device malfunction.

PRECAUTIONS

The long-term effects of extraosseous or intra-articular use of the product (material injected into the joint space) are unknown.

Arthritis may be a possible complication of intra-articular use of the product.

The safety and effectiveness of the product has not been established in:

- Traumatic open injuries which are predisposed to infection.
- Patients with compromised health (e.g. metabolic, vascular, or severe neurological disease, infection, immunologic deficiencies).
- Patients who are skeletally immature.
- Pregnant or nursing women.
- Patients undergoing concurrent radiotherapy or chemotherapy treatment.
- Patients with renal impairment.

All users should become familiar with the product mixing instructions prior to use.

- The product powder and liquid should be stored at room temperature.
- The product powder and liquid should be equilibrated to 18-23°C/65-73°F prior to mixing for optional results.
- The safety and effectiveness of the product in contact with adjacent allograft, acrylic, silicone, or polymer materials has not been established.
- Do not over-pressurize the device because this may lead to extrusion of the device beyond the site of its intended application and damage to the surrounding tissue.
- Do not over-pressurize the defect site since this may lead to fat embolization or embolization of the device material into the bloodstream.
- Skin Exposure: Wash area with soap and water
- Eye Exposure: Flush thoroughly with running water

ADVERSE EVENTS

The following adverse events can occur with the use of bone void fillers:

- Revisions and/or removals
- Superficial wound or deep wound infection
- Pain/discomfort, swelling, redness, fever, inflammation
- Fluid accumulation, wound dehiscence, drainage
- Debridement/irrigation

Delayed or nonunion, lack of osseointegration, impaired healing, inadequate bone formation
 Material fracture, altered handling characteristics leading to failure
 Protrusion, dislodgement, migration, or extravasation (leakage)
 Decreased range of motion, loss of motor function, sensory deficit
 Allergic/immune response
 Blood pressure change
 Hematoma
 Cyst
 Death

STERILIZATION

This device is provided sterile (gamma radiation).
 Contents are **STERILE** unless the barrier packaging is open or damaged; **DO NOT USE** if the package is open or damaged.

STORAGE CONDITIONS

Sterile devices must be stored in the original unopened packaging, away from moisture and should not be used after the expiration date.

MIXING INSTRUCTIONS:

Refer to STI for Mixing, Delivery and Setting times.

SYMBOLS GLOSSARY:

Symbol	Reference Number	Title of Symbol	Description of Symbol per Standard ¹
	5.1.1	Manufacturer	Indicates the medical device manufacturer, as defined in EU Directives 90/385/EEC, 93/42/EEC and 98/79/EC.
	5.1.4	Use-by date	Indicates the date after which the medical device is not to be used
	5.1.5	Batch code	Indicates the manufacturer's batch code so that the batch or lot can be identified
	5.1.6	Catalogue number	Indicates the manufacturer's catalogue number so that the medical device can be identified
	5.1.7	Serial Number	Indicates the manufacturer's serial number so that a specific medical device can be identified.
	5.2.4	Sterilized using irradiation	Indicates a medical device that has been sterilized using irradiation
	5.2.6	Do not re-sterilize	Indicates a medical device that is not to be re-sterilized.
	5.2.8	Do not use if package is damaged	Indicates a medical device that should not be used if the package has been damaged or opened
	5.4.2	Do not re-use	Indicates a medical device that is intended for one use, or for use on a single patient during a single procedure
	5.4.3	Consult instructions for use	Indicates the need for the user to consult the instructions for use
	5.4.4	Caution	Caution: Federal Law restricts this device to sale by or on the order of a physician
	21 CFR 801.109(b)(1)	Prescription only	Requires prescription in the United States

¹With the exception of the Rx Only symbol, all information is from ISO 15223-1:2016, Medical Devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements, FR recognition number 5-117.

FURTHER INFORMATION:

Further Information: For product information, sales inquiries, customer service, or to obtain mixing instructions, please contact your sales representative or WishBone Medical Customer Service at Email: CustomerService@WishBoneMedical.com

PRODUCT COMPLAINTS:

Any healthcare professional (e.g. customer or user of this system of products) who has experienced dissatisfaction in this product's quality, identity, durability, reliability, safety, effectiveness, and/or performance, should either notify their WishBone Medical, Inc. sales representative or contact WishBone Medical, Inc. at WeCare@WishBoneMedical.com.
 When filing a complaint, please provide the following information:

- Nature of the complaint
- Location of the incident
- Name and address of complainant
- Device name(s) and part number(s)
- Device lot number(s)
- Device UDI (if available)
- Patient name or patient identifier
- Patient age & gender

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