



## WishBone Medical Plate and Screw System

### Instructions for Use

WishBone Medical Plate and Screw System







### Manufactured by:

**WishBone Medical, Inc. (WBM)**

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<b>Caution: Federal law restricts this device to sale by or on the order of a physician.</b>		
	5.4.2	• <b>Single use</b>
	5.1.6	• <b>Catalog number</b>
	5.1.5	• <b>Lot number</b>
	5.4.3	• <b>See instructions for use</b>
	5.2.3	• <b>Sterile – Irradiation</b>
	5.1.4	• <b>Use by date</b>

Symbols: ISO-15223

### CONTENTS

The package contains one or several implants and surgical instrument(s) for the express purpose of fracture management or deformity correction.

### DESCRIPTION

The WishBone Medical Plate and Screw System gives the surgeon a means of bone fixation and helps in the management of fractures and reconstructive surgery; Bone Plates are not intended to replace normal body structures. The WishBone Medical Plates and Screws are made of Stainless Steel or Titanium alloy.

### IMPLANT AND INSTRUMENT MATERIAL SPECIFICATIONS

Implants are made from medical grade stainless steel or titanium alloy, instruments are made from medical grade stainless steel & plastic.

### MRI SAFETY INFORMATION

These devices have not been evaluated for safety and compatibility in the MRI environment. The system has not been tested for heating, migration, or image artifact in the MRI environment. The safety of these devices in the MRI environment is unknown. Scanning a patient who has this device may result in patient injury.

### INTENDED USE

The WishBone Medical Plate and Screw System is used for pediatric and adult patients as indicated for pelvic, small and long bone fracture fixation and fixation of bones that have been surgically prepared (osteotomy) for correction of deformity or arthrodesis.

### INDICATIONS

Indications for use include fractures of the clavicle, scapula, humerus, ulna, radius, middle hand, metacarpals, pelvis acetabulum, femur, fibula, tibia, metatarsals and middle foot bones, and treatment of the calcaneus.

### ADVERSE EFFECTS

Possible reactions may include but are not limited to:

- Allergic reactions to metal
- Delayed or non-union of bone
- Delayed healing
- Delay of surgery
- Injury to user
- Adverse biologic reaction
- Revision
- Pain
- Infection
- Implant failure
- Difficulty in removal of hardware

### CONTRAINDICATIONS

- Comminuted bone surface which would mitigate against plate and screw placement.
- Pathologic conditions of bone such as osteopenia which would severely impair the ability to securely fix the plate.
- Foreign body sensitivity to metals including nickel. Where material sensitivity is suspected, appropriate tests should be made prior to implantation.
- The WishBone Medical Plate and Screw System's plates are not intended to cross active growth plates.

### SURGICAL TECHNIQUES

Surgical techniques are available describing the uses of this system. It is the responsibility of the surgeon to be familiar with the procedure before use of these products. In addition, it is the responsibility of the surgeon to be familiar with relevant publications and consult with experienced associates regarding the procedure before use. Surgical Techniques can be found on the WishBone Medical website ([www.wishbonemedical.com/IFU](http://www.wishbonemedical.com/IFU)).

### STERILE:

Sterilized by irradiation. Do not use if package is open or damaged. Caution: Do not re-sterilize. This is a single use device. Products intended for single-use must not be re-used in a subsequent procedure. Re-use or reprocessing (e.g. cleaning and re-sterilization) may compromise the structural integrity of the device and/or lead to device failure which may result in patient injury, illness or death. Furthermore, reuse or reprocessing of single-use devices may create a risk of contamination e.g. due to the transmission of infectious material from one patient to another. This could result in injury or death of the patient or user.

### HOW SUPPLIED/STORAGE:

The devices are packed in protective packaging that is labeled to its contents. All implants and instruments are supplied sterile.

- Always store the devices in the original protective packaging.
- Store the devices in a dry and dust-free place (standard hospital environment).

### INSPECTION:

Before use, inspect the implant/instrument box carefully. Do not use when sterile barrier is visually damaged.

### WARNINGS

Please note that using a single use device which comes into contact with human blood or tissue constitutes reprocessing & that reprocessing can only be performed by an authorized third-party reprocessor who has received 510(k) clearance for such.

### SAFETY PRECAUTIONS

- Prior to use, thoroughly read these instructions for use. Each surgeon must consider the particular needs of each patient and create a surgical plan that uses the appropriate implant(s) for that patient. Take care not to place screws into the physis of patients with open growth plates. Do not affix screws to the same plate both proximal and distal to a physis in patients with open growth plates.
- Keep the instructions for use accessible to all staff.
- The use of a surgical instrument for tasks other than those for which they are intended may result in damaged or broken instruments or patient injury.
- The surgeon must be familiar with the instrumentation, method of application, and the recommended surgical technique for adequate fracture repair and protection of soft tissue structures during surgery. Use appropriate drill guide when drilling to protect soft tissues from edges of drill flutes.
- Note: Due to the notch sensitivity of titanium, take care not to notch plate when bending. The plate must never be unbent or reverted to its original shape once it has been contoured.
- Do not bend plates excessively. Do not use Threaded Drill Guides to bend plates.
- Always confirm correct drill diameter for desired screw prior to drilling. Progress slowly with drill to prevent plunging through far cortex where vital anatomic structures might be. Fluoroscopy may be needed to confirm desired length.
- Always measure the depth of a pre-drilled hole by carefully inserting the depth gauge first through the plate, and then into the pre-drilled hole. The sleeve of the depth gauge must be fully inserted into the respective plate hole prior to measuring.
- Threaded drill guides must always fit securely within a locking hole. Using the wrong size or type of drill guide or angulating a threaded drill guide could cause the screw head to pull through the hole. Prior to screw insertion, confirm screw type (cortex or locking), length, and diameter is correct. Fluoroscopy may be needed to confirm desired length.
- Use manual force only with the screwdriver supplied to insert screws. Insert a screw only once. Do not reuse screws as fatigue or damage from a prior insertion may damage the screw.
- For one procedure only. Do not re-sterilize.
- Do not use if package is open or damaged.

### SAFETY PRECAUTIONS (CONT.)

- This is a single use device. Never re-use an implant or instrument. Re-use can result in the transfer of materials not limited to bone, tissue, blood or infectious disease. Although the device may appear undamaged, previous stresses may have created non-visible damage that could result in device failure. The manufacturer accepts no responsibility for a re-used implant or instrument.
- This device is provided sterile and re-sterilization of the device has not been validated.
- WishBone Medical implants should only be used in conjunction with WishBone Medical instruments applicable for the respective sizes.
- After fracture reduction: When using locked plating techniques, reduction should, where possible, be within 1mm to limit fracture fragment motion during healing.
- After closure: For unstable repair constructs, i.e. highly comminuted fractures, post-operative loading should be restricted to a level determined by the physician until callus formation is radiographically documented.

### DEVICE INTENDED TO BE USED BY A TRAINED PHYSICIAN

This description alone does not provide sufficient background for direct use of WishBone Medical products. Instruction by a surgeon experienced in handling these products is highly recommended.

### FOR FURTHER INFORMATION

Please contact WishBone Medical Inc. or your authorized representative if further information about this product is needed.