The following languages are included in this packet:

English (en)

For additional languages, visit our website www.wmt.com. Then click on the Prescribing Information option.

For additional information and translations please contact the manufacturer or local distributor.

* The CE-Marking of Conformity is applied per catalog number and appears on the outer label, if applicable.
Attention Operating Surgeon

IMPORTANT MEDICAL INFORMATION
PRO-TOE™ VO HAMMERTOE IMPLANT SYSTEM
(144939-4)

OUTLINE:
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DESCRIPTION
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# DEFINITIONS

Symbols and abbreviations may be used on the package label. The following table provides the definition of these symbols and abbreviations.

Table 1. Definitions of Symbols and Abbreviations

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>![LOT]</td>
<td>Batch code</td>
</tr>
<tr>
<td>![REF]</td>
<td>Catalog number</td>
</tr>
<tr>
<td>![2]</td>
<td>Do not re-use</td>
</tr>
<tr>
<td>![!]</td>
<td>Caution, consult accompanying documents</td>
</tr>
<tr>
<td>![i]</td>
<td>Consult operating instructions</td>
</tr>
<tr>
<td>![H]</td>
<td>Use by</td>
</tr>
<tr>
<td>![L]</td>
<td>Temperature limitation</td>
</tr>
<tr>
<td>![D]</td>
<td>Keep dry</td>
</tr>
<tr>
<td>Icon</td>
<td>Text</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>![Sun]</td>
<td>Keep away from sunlight</td>
</tr>
<tr>
<td>![Factory]</td>
<td>Date of manufacture</td>
</tr>
<tr>
<td>![Mountain]</td>
<td>Manufacturer</td>
</tr>
<tr>
<td>![EC REP]</td>
<td>Authorized EC Representative in the European Community</td>
</tr>
<tr>
<td>![Sterile R]</td>
<td>Sterilized using radiation</td>
</tr>
<tr>
<td>![Sterile A]</td>
<td>Sterilized using aseptic processing techniques</td>
</tr>
<tr>
<td>![Rx ONLY]</td>
<td>For prescription use only</td>
</tr>
<tr>
<td>![Warning]</td>
<td>Do not use if packaging is ripped or damaged</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ti</td>
<td>Titanium</td>
</tr>
<tr>
<td>Ti6Al4V</td>
<td>Titanium Alloy</td>
</tr>
<tr>
<td>SS</td>
<td>Stainless Steel</td>
</tr>
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</table>
DESCRIPTION
The PRO-TOE™ VO Hammertoe Implants have a blade-style end and a threaded end and will be offered in multiple sizes with multiple blade angles. The implants are manufactured from stainless steel or titanium.

A. INDICATIONS
The PRO-TOE™ VO Hammertoe Implant System is indicated for the fixation of osteotomies and reconstruction of the lesser toes following correction procedures for hammertoe, claw toe, and mallet toe.

B. CONTRAINDICATIONS
- Infection
- Physiologically or psychologically inadequate patient
- Inadequate skin, bone, or neurovascular status
- Irreparable tendon system
- Possibility for conservative treatment
- Growing patients with open epiphyses
- Patients with high levels of activity

C. PRECAUTIONS
Pre-operative Precautions
The surgeon must evaluate each situation individually based on the patient’s clinical presentation in making any decisions regarding implant selection. The surgeon must be thoroughly familiar with the implant, instruments, and surgical procedure prior to performing surgery. The surgeon should contact Wright for product-specific surgical techniques.

The surgeon should also use medical devices in accordance with their labeled indications and the manufacturer’s instructions for use, especially during insertion and removal.
Patient selection should consider the following factors which could lead to increased risk of failure and can be critical to the eventual success of the procedure: the patient’s weight, activity level, and occupation. Implant longevity and stability may be affected by these variables. A heavy-weight patient can produce high loads on the implant, which can lead to failure of the implant. The surgeon must consider the ability and willingness of the patient to follow instructions and to control their weight and activity level. Any implant, including the implant/bone interface, cannot be expected to withstand activity levels and loads as would normal healthy bone and will not be as strong, reliable, or durable as natural human bone. The patient should not have unrealistic functional expectations for occupations or activities that include substantial walking, running, lifting, or muscle strain.

Additional conditions presenting increased risk of failure include:

1. uncooperative patient or patient with neurologic disorders, incapable of following instructions;
2. marked bone loss, severe osteoporosis, or revision procedures for which an adequate fit of the implant cannot be achieved;
3. metabolic disorders that may impair bone formation;
4. osteomalacia
5. poor prognosis for good wound healing (e.g., decubitus ulcer, end-stage diabetes, severe protein deficiency and/or malnutrition).
6. pre-existing conditions commonly considered with any surgery including bleeding disorders, long-term steroidal therapy, immunosuppressive therapy, or high dosage radiation therapy.

The patient should be warned of surgical risks, and made aware of possible adverse effects. The patient should be warned that the implant does not replace normal healthy bone and that the implant can break or become damaged as a result of certain activity or trauma. The patient should also be advised of other risks that the surgeon believes should be disclosed. The patient should be advised that any noise or unusual sensation should be reported to the surgeon as it may indicate implant malfunction.
Intra-operative Precautions
Specialized instruments are available and must be used to assure the accurate implantation of the implant. Do not mix instruments from different manufacturers. While rare, breakage of instruments may occur especially with extensive use or excessive force. For this reason, instruments should be examined for wear or damage prior to surgery.

Inspect devices prior to use for damage during shipment or storage or any out-of-box defects that might increase the likelihood of fragmentation during a procedure.

Correct selection of the implant is extremely important. Implants require careful seating and adequate bone support. Surgeons are encouraged to use their best medical judgment when choosing the proper implant size regardless of the endosteal area of the bone. Proper implant selection must consider design, fixation, patient weight, age, bone quality, size, activity level, preoperative level of health, and also the surgeon's experience and familiarity with the device. Implant longevity and stability may be affected by these variables. Surgeons should inform the patient about these factors.

Post-operative Precautions
The patient must be advised of the limitations of the reconstruction and the need for protection of the implant from full weight bearing until adequate fixation and healing have occurred. Periodic follow-up is recommended to monitor the position and state of the implant components, as well as the condition of the bone. Periodic post-operative x-rays are recommended for close comparison with early post-op conditions to detect long term evidence of changes in position, loosening, bending, or cracking of components.

The PRO-TOE™ VO Hammertoe Implant System has not been evaluated for safety and compatibility in the MR environment. The PRO-TOE™ VO Hammertoe Implant System has not been tested for heating or migration in the MR environment.

Recommendations Regarding Device Fragments
1. Inspect devices immediately upon removal from the patient for any signs of breakage or fragmentation.
2. If the device is damaged, retain it to assist with the manufacturer’s analysis of the event.
3. Carefully consider and discuss with the patient (if possible) the risks and benefits of retrieving vs. leaving the fragment in the patient.
4. Advise the patient of the nature and safety of unretrieved device fragments including the following information:
   a. The material composition, size, and location of the fragment (if known);
   b. The potential mechanisms for injury, e.g., migration, infection;
   c. Procedures or treatments that should be avoided such as MRI exams in the case of metallic fragments. This may help to reduce the possibility of a serious injury from the fragment.

D. ADVERSE EFFECTS
   • Allergic reactions to materials; metal sensitivity that may lead to histological reactions, pseudotumor and aseptic lymphocytic vasculitis-associated lesions (ALVAL).
   • Delayed wound healing; deep wound infection (early or late) which may necessitate removal of the implant. On rare occasions amputation of the limb may be required.
   • a sudden drop in blood pressure intra-operatively due to the use of bone cement;
   • damage to blood vessels or hematoma;
   • temporary or permanent nerve damage, peripheral neuropathies and subclinical nerve damage as possible result of surgical trauma resulting in pain or numbness of the affected limb;
   • cardiovascular disorders including venous thrombosis, pulmonary embolism, or myocardial infarction;
   • fatigue fracture of the prosthetic component can occur as a result of trauma, strenuous activity, improper alignment, incomplete implant seating, duration of service, loss of fixation, non-union, or excessive weight;
   • dislocation, migration and/or subluxation of prosthetic components from improper positioning, trauma, loss of fixation and/or muscle and fibrous tissue laxity;
   • pain.
E. HANDLING & STERILIZATION

Implants
Devices provided sterile are sterilized by gamma radiation. Irradiated devices have been exposed to a minimum 25 and a maximum 40 kilo Grays of gamma radiation. Devices provided sterile should be considered sterile unless the inner package has been opened or damaged. If the inner package integrity has been compromised, contact the manufacturer for instructions. Remove device from package, using aseptic OR technique, only after the correct size has been determined and the operative site has been prepared for final implantation. Always handle the product with powder-free gloves, and avoid contact with hard objects that may damage the product.

Devices labeled for single-use only should never be reused. Reuse of these devices may potentially result in serious patient harm. Examples of hazards related to the reuse of these devices include, but are not limited to the following: significant degradation in device performance, cross-infection, and contamination.

An implant should never be re-sterilized or reused after contact with body tissues or fluids, but rather should be discarded. Wright does not take any responsibility for the use of implants resterilized after contact with body tissues or fluids.

WARNINGS:
• All packaging materials MUST be removed from the implant prior to implantation.
• NEVER steam sterilize/re-sterilize plastic and/or metal/plastic implants.

REUSABLE INSTRUMENTS
Surgical instruments for the PRO-TOE™ VO Hammertoe Implant System are provided standard in sterile, single-use foam instrument kits, as well as an optional non-sterile reusable configuration. While the sterile instruments are strictly single use, the non-sterile instruments should be cleaned and sterilized according to the following parameters:
Cleaning
1. **Disassemble** all components as per manufacturer instructions (if appropriate).
2. **Rinse** with cold tap water to remove gross contamination.
3. **Bathe** in an enzymatic detergent solution prepared per manufacturer directions for 5 minutes.
4. **Scrub** thoroughly with a soft brush and/or pipe cleaner; repeatedly flush any very narrow lumens with enzymatic detergent solution using a syringe.
5. **Rinse** with cold tap water for a minimum of one minute; use a syringe to repeatedly flush any very narrow lumens.
6. **Bathe** in a detergent solution prepared per manufacturer directions for 5 minutes.
7. **Scrub** thoroughly with a soft brush and/or pipe cleaner; repeatedly flush any very narrow lumens with detergent solution using a syringe.
8. **Rinse** thoroughly/flush with deionized/reverse osmosis (RO/DI) water.
9. **Sonicate** for a minimum of 10 minutes in an enzymatic detergent solution prepared per manufacturer directions.
10. **Rinse** thoroughly/flush with RO/DI water.
11. **Dry** with a clean, soft, absorbent, disposable cloth.
12. **Visually inspect** for cleanliness. All visible surfaces, internal and external, should be visually inspected. If necessary re-clean until it is visibly clean.

**Note:** Brushes (i.e. pipe cleaners) could be used for cleaning most lumens, however, the use of a syringe to flush narrow lumens with diameters less than or equal to 0.041 inches is recommended.
**Sterilization**

The minimum recommended steam sterilization conditions for Wright reusable instruments are as follows:

1. Double wrap the component in an FDA-cleared CSR wrap or similar type non-woven medical grade wrapping material.

2. Autoclave according to the following parameters:

<table>
<thead>
<tr>
<th>Cycle Type</th>
<th>Parameter</th>
<th>Minimum Set Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevacuum</td>
<td>Exposure Temperature</td>
<td>270°F (132°C)</td>
</tr>
<tr>
<td>270°F (132°C)</td>
<td>Exposure Time</td>
<td>4 minutes</td>
</tr>
<tr>
<td></td>
<td>Dry Time</td>
<td>20 minutes</td>
</tr>
</tbody>
</table>

3. After sterilization, remove the component from its wrapping using accepted sterile technique with powder-free gloves. Ensure that implants are at room temperature prior to implantation. Avoid contact with hard objects that may cause damage.

These recommendations are consistent with AAMI ST79 Table 5 guidelines and have been developed and tested using specific equipment. Due to variations in environment and equipment, it must be demonstrated that these recommendations produce sterility in your environment. If processing conditions, wrapping materials, or equipment changes occur, the effectiveness of the sterilization process must be demonstrated.

For additional information see Wright’s “Cleaning and Handling of Wright Medical Instruments”.

**F. STORAGE CONDITIONS**

All implants must be stored in a clean, dry environment and be protected from sunlight and extremes in temperature.

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