Salto Talaris® Total Ankle Prosthesis and Integra® XT Revision Ankle Replacement System Non-Sterile Device Reprocessing

Instructions for Use

1. Description and Intended Use
Integra LifeSciences Corporation reusable surgical device sets consist of various configurations of orthopedic devices in cases or trays. The sets are constructed from durable metal and/or plastic materials. The reusable surgical devices are intended for use in orthopedic surgical procedures according to the Instructions for Use and Surgical techniques that accompany Integra® implants. Reusable devices are to be cleaned, inspected, and sterilized between uses.

2. Inspection Before Use
Reusable Devices can be used indefinitely if not damaged or worn. Device systems should be cleaned and then inspected between uses. DO NOT use broken or damaged devices. Contact Integra for repair or replacement of damaged items. If damage or malfunction is detected, the device should not be used.

Disposable Devices should be disposed of according to hospital procedure and any applicable laws. Do not reuse disposable devices.

3. Preparation/General Guidance for Cleaning
Verify that all instruments required for use are present in the case. In addition, it is not recommended to use chloride containing cleaning solutions since its use has been linked to corrosion of metallic instruments, especially stainless steel.

Please also note the following:
- Disinfect and clean devices immediately after use in order to avoid device encrustations.
- Solutions used for cleaning must always be prepared in accordance with the manufacturer’s instructions.
- Never use metal brushes or metal sponges for manual cleaning.
- Use a suitably sized non-metallic bristle brush for cleaning lumens, cannulations, blind holes, and cavities, making sure that every part of the inner surface can be properly accessed.
- Clean jointed instruments in closed as well as open positions.
- Disassemble instruments as far as possible before cleaning. Reference Section 8 for specific disassembly instructions.
- Be sure to arrange the items so that the water can easily flow out of cannulations, blind holes, and cavities.
- For instruments with long or narrow lumens, standard processing should be used only if the disinfectant can flow easily through the lumens and safe rinsing is guaranteed.
- The cases/trays used for cleaning must always be loaded correctly to ensure proper cleaning.
- After cleaning, check instruments for cleanliness (visible dirt). This especially applies to cannulated instruments or those with blind holes and crevices.
- To ensure proper instrument functioning, verify that all movable parts have been thoroughly cleaned.
- Pay special attention to slots, ratchets, joints and box locks, narrow lumens, blind holes, and other areas that are hard to access.
- Deionized or distilled water should be used for the final rinse.

4. Manual Cleaning Instructions
The following steps should be completed in sequence. Please note that all instructions provided are as validated by Integra LifeSciences. Depending upon the detergent selection, minimum processing times and temperature settings may need to be adjusted for optimal processing:

   a) Prepare a neutral pH enzymatic detergent as per the manufacturer’s recommendation (e.g. Enzol® prepared at 1 oz. per gallon of lukewarm deionized water).
   b) Disassemble instruments to lowest level. Reference Section 8 for specific disassembly instructions.
   c) Rinse instruments under lukewarm running water to remove all gross soil. Use a soft bristled brush to aid in the brushing. Agitate the instruments under the running water. Agitation includes actuating all movable parts such as opening and closing hinges and moving the instruments around under the running water. Use a clean soft bristled brush and/or pipe cleaner to brush and aid in the rinse for the exterior and interior of instruments. Use a syringe to flush any lumens.
   d) Fully immerse each device in the prepared detergent and allow it to soak for a minimum of two (2) minutes.
   e) After soaking the devices, and while still immersed, use a syringe to flush all hard to reach areas/lumens with the prepared detergent. Use a pipe cleaner brush to clean all hard to reach areas and/or lumens of each article. Use a soft bristle brush and circular strokes to remove any visible soil. Pay particular attention to all the areas where the soil could be imbedded (i.e. grooves, crevices, lumens, blind holes). Bend flexible components to their maximum amount in all orientations during this step. Note: Cleaning is performed under the surface of the prepared detergent solution to limit aerosolization of the cleaning fluid and soil, as well as for worker and environmental safety.
   f) Use a syringe to flush lumens and a pipe cleaner to clean lumens and holes.
   g) Remove articles from the detergent, and rinse devices under running lukewarm water for a minimum of one and a half (1.5) minutes to remove any detergent residuals. In accordance with Step C, agitate the instruments under the running water, being sure to actuate all movable parts, and using a soft bristled brush for internal and exterior device surfaces. Use a syringe to flush all hard to reach areas and/or lumens with water.
   h) Prepare a neutral pH enzymatic detergent (eg. Enzol) in a sonicator, as per the manufacturer’s recommendation using lukewarm water. Fully immerse the devices in the detergent. Flush the articles with a syringe and actuate to ensure no air bubbles are trapped within the device. Bend flexible components to their maximum amount in all orientations during this step. Sonicate for 10 minutes.
   i) After sonication, remove articles from the detergent and rinse the devices with running lukewarm water (use the highest grade of water available, distilled or deionized water is recommended) for three (3) minutes. Agitate the instruments under the running water, being sure to actuate all movable parts. Use a clean soft bristled brush and/or pipe cleaner to aid in the rinse of internal and exterior device surfaces. Use a syringe to flush all lumens and hard to reach areas within the device.
   j) Dry the devices using filtered pressurized air and visually examine to determine if all adherent visible soil has been removed.
   k) Repeat the above cleaning procedure, if visible debris is detected.

5. Automated Cleaning Procedure
The following steps should be completed in sequence:

   a) Prepare an enzymatic detergent using lukewarm deionized water as per the manufacturer’s recommendation.
   b) Disassemble instruments to lowest level. Reference Section 8 for specific disassembly instructions.
   c) Fully immerse the devices and allow to soak for a minimum of two (2) minutes.
d) Following the soak time, flush any lumens of the device using a syringe.

e) Rinse the devices under lukewarm running deionized water for a minimum of one (1) minute, while agitating the devices. Agitation includes actuating all movable parts, such as opening and closing hinges and moving the devices around under the running water.

f) Use a clean soft bristled brush and/or pipe cleaner to brush and aid in the rinse for the exterior and interior of device components. Use a syringe to flush any lumens.

g) Assemble instruments. Refer to Section 8 for specific assembly instructions.

h) Place the devices back into the designated locations of the case/tray, and load the case/tray set into an automated washer (Steris 444 or equivalent).

i) The washer cycle parameters are as follows:

<table>
<thead>
<tr>
<th>Phase</th>
<th>Recirculation Time (Min.)</th>
<th>Water Temperature</th>
<th>Detergent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Wash 1</td>
<td>02:00</td>
<td>Cold Water</td>
<td>NA</td>
</tr>
<tr>
<td>Enzyme Wash</td>
<td>01:00</td>
<td>Hot Water</td>
<td>Enzymatic Cleaner</td>
</tr>
<tr>
<td>Wash 1</td>
<td>02:00</td>
<td>60°C</td>
<td>Neutral Detergent</td>
</tr>
<tr>
<td>Rinse 1</td>
<td>10:00</td>
<td>Hot Water*</td>
<td>NA</td>
</tr>
</tbody>
</table>

* Note: The highest grade of water available should be used during the final rinse cycle, distilled or deionized is recommended.

j) After washing, dry the devices using a clean lint free cloth and visually examine to determine if all adherent visible soil has been removed.

k) Repeat the cleaning procedure if visible debris is detected.

6. Inspection After Cleaning

Following cleaning, the instruments must be macroscopically clean, i.e. free from visible dirt or deposits. All movable parts, working tips and blades (scissors) should be inspected with particular care.

7. Sterilization

Integra LifeSciences Corporation has completed sterilization validations for our instrument sets. The validation protocols were performed in accordance with:

- ANSI/AAMI ST79:2010/A4:2013 Steam Sterilization and Sterility Assurance in Health Care
- ANSI/AAMI ST77:2013 Containment Devices for Reusable Medical Device Sterilization

All testing was done using the overkill approach with Geobacillus stearothermophilus spores. The results confirmed 10^6 Sterility Assurance Level (SAL) for the sets when using the recommended cycles. In accordance with our validation results, the following cycles are recommended for wrapped goods utilizing FDA-cleared sterilization wrap:

<table>
<thead>
<tr>
<th>Device Set System</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salto Talaris Primary, Instrument Box 1</td>
<td>MJU910T</td>
<td>Talar Cut Guide, Flat Cut</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU645T</td>
<td>Tibial Cut Guide, Size 0</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU646T</td>
<td>Tibial Cut Guide, Size 1</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU647T</td>
<td>Tibial Cut Guide, Size 2</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU648T</td>
<td>Tibial Cut Guide, Size 3</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU375T</td>
<td>Posterior Talar Resection Guide, Size 0</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU376T</td>
<td>Posterior Talar Resection Guide, Size 1/2/3</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU370T</td>
<td>Tibial Resection Guide, Size 0</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU371T</td>
<td>Tibial Resection Guide, Size 1</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU372T</td>
<td>Tibial Resection Guide, Size 2</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU373T</td>
<td>Tibial Resection Guide, Size 3</td>
</tr>
<tr>
<td>Salto Talaris Primary, Instrument Box 2</td>
<td>MJU985T</td>
<td>Sloped Talar Cutting Guide</td>
</tr>
</tbody>
</table>

8. Disassembly and Assembly Instructions

a) Remove screw(s)/thumb screw(s) of the following instruments:

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1 This system does not have a registered CE mark.
2 134°C setting is for use outside the USA only.
b) For Salto Talaris Primary, Instrument Box 1 & Salto Talaris Primary, Instrument Box 2 and Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2, complete the following instructions for disassembly of the Tibial Alignment Guide, MJU333T and the Tibial Alignment Guide, No Block, MJV553T respectively.

1. Unscrew All the Screws (x6).
2. Take off the upper stem and the bottom part.*
3. Un螺丝 the top screw with the screwdriver MLN113T.
4. Take off the graduated part with a 1/4 of turn.

* MJV553T will not have the cut block (shown with curved arrow)

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c) For Salto Talaris Primary, Instrument Box 1 & Salto Talaris Primary, Instrument Box 2 and Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2, complete the following instructions for assembly of the Tibial Alignment Guide, MJU333T and the Tibial Alignment Guide, No Block, MJV553T respectively.

1. Assemble the upper step and the bottom part.*
2. Tighten the screw at maximum.
3. Assemble the upper step and the bottom part.*
4. Tighten all the screws (6x).

* MJV553T will not have the cut block (shown with curved arrow)
d) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 complete the following instructions for disassembly of the Tibial Impactor, MJU937T.

1. Unscrew the screw and remove it.

2. Remove the plastic end piece for cleaning.

e) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 reverse the instructions in Step d for assembly of the Tibial Impactor, MJU937T.

f) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 complete the following instructions for disassembly of the In Situ Poly Inserter, MJU940T

1. Unscrew the screw and remove it.

2. Unscrew and remove small locking screw and large wheel
3 Translate and remove plastic handle and long stem

4 Pinch, translate and remove plastic tip

5 Translate and remove last two parts

g) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 complete the following instructions for assembly of the In Situ Poly Inserter, MJU940T.

1 Insert rotating ring, followed by the translating part and plastic tip
(2) Assemble plastic handle first, then the long stem

(3) Insert large wheel, push up long stem, screw large wheel, screw locking screw

(4) Insert and screw long screw

h) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 complete the following instructions for disassembly of the Tibial Holder, MJU936T.

i) For Integra XT Revision, Instrument Box 1 & Integra XT Revision, Instrument Box 2 reverse the instructions in Step h for assembly of the Tibial Holder, MJU936T.

(1) Unscrew and remove long screw
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