

Sicherheitsinformation PR 1457388

23. Mai 2018

### **Sicherheitsinformation**

**FSCA-Kennung:** Produktbezogene Korrekturmaßnahme – **PR 1457388**

**Art der Maßnahme:** Korrekturmaßnahme

**Beschreibung:** Aktualisierung der Gebrauchsanweisung für unsterile Instrumente und Probeimplantate

**Betroffene(s) Produkt(e):** Chirurgische Instrumente und Probeimplantate

**Losnummern:** Alle chirurgischen Instrumente und Probeimplantate

Sehr geehrte Kundin, sehr geehrter Kunde,

am 23. Mai 2018 hat Stanmore Implants Worldwide Ltd. eine freiwillige Korrekturmaßnahme in Bezug auf die Gebrauchsanweisungen für unsterile, wiederverwendbare chirurgische Instrumente und Probeimplantate eingeleitet. Mit diesem Schreiben möchten wir die Anwender auf eine Änderung der Gebrauchsanweisungen für chirurgische Instrumente und Probeimplantate aufmerksam machen. Wir möchten auf Gefahren hinweisen, die möglicherweise mit der Dampfsterilisation dieser Produkte verbunden sind, und auf Faktoren für eine Risikominderung.

#### **Problematik**

Es wurde festgestellt, dass in der den unsterilen Instrumenten und Probeimplantaten beiliegenden Gebrauchsanweisungen Dampfsterilisationsparameter für Großbritannien (134–137 °C für 3 Minuten – Vorvakuum) angegeben sind, während die validierten Sterilisationsparameter auf die USA zutreffen (132 °C für 4 Minuten – poröse Ladung).

Zur Behebung der Unstimmigkeit bezüglich der nicht validierten Sterilisationsparameter und zur Angleichung der Sterilisationsparameter an die britischen Standardvorschriften hat Stanmore Implants Worldwide Ltd. eine Dampfsterilisationsvalidierung aller wiederverwendbaren Instrumentensets und Probeimplantate anhand der britischen Standardsterilisationsparameter (mindestens 3 Minuten bei 134–137 °C – Vorvakuum) vorgenommen, um ein Sterilisationsniveau (SAL) von mindestens  $10^{-12}$  bei einem vollständigen Sterilisationszyklus zu erreichen. Die Validierung hat auch ergeben, dass die Dampfdurchdringung während der Sterilisation verbessert wird, wenn die Polymerkappe des Standard-Einschlägers (Artikelnr. imgenimp) und seiner Variante, des Langen Standard-Einschlägers (Artikelnr. imlgimp), teilweise abgeschraubt ist (ca. 2 mm), wobei darauf zu achten ist, dass das Produkt noch in die entsprechende Position im Sterilisationssieb passt.

Die Gebrauchsanweisungen wurden dementsprechend aktualisiert (siehe Anhang I für aktualisierte Gebrauchsanweisungen für chirurgische Instrumente und Probeimplantate).

Die in diesen Gebrauchsanweisungen vorgenommenen Änderungen lauten wie folgt:

1. Die Sterilisationsparameter in Abschnitt 3 wurden geändert:

In vorigen Gebrauchsanweisungen aufgeführte Sterilisationsparameter

Methode	Zyklustyp	Temperatur	Expositionsdauer	Trocknungszeit
Dampf	Poröse Ladung	132 °C	4 Minuten (mind.)	30 Minuten (mind.)

*Sterilisationsparameter in den aktualisierten Gebrauchsanweisungen*

Methode	Zyklustyp	Temperatur	Expositionsdauer	Trocknungszeit
Dampf	Vorvakuum	134–137 °C	3 Minuten (mind.)	30 Minuten (mind.)

2. Zusätzlicher Text wurde zu Abschnitt 3 hinzugefügt:

- a. *Die Polymerkappe des Standard-Einschlägers und seiner Variante teilweise (ca. 2 mm) abschrauben, um die Dampfdurchdringung während der Sterilisation zu verbessern, wobei darauf zu achten ist, dass das Produkt noch in die entsprechende Position im Sterilisationssieb passt.*
- b. *Vor der Verwendung muss die Polymerkappe am Standard-Einschläger und seiner Variante wieder festgeschraubt werden.*
- c. *Vor der Verwendung müssen alle Komponenten trocken sein.*

### **Potenzielle Gefahren/Schädigungen**

Die potenzielle Gefahr, wenn der Standard-Einschläger und seine Variante nicht abgeschraubt werden, besteht u. a. darin, dass:

- Infektionserreger aufgrund von unzureichender Reinigung, Desinfektion und Sterilisation auf dem Produkt verbleiben

### **Risikominderung:**

1. Abnehmen der Polymerkappe des Standard-Einschlägers und seiner Variante während der Reinigung und Desinfektion.
2. Teilweises Abschrauben der Polymerkappe des Standard-Einschlägers und seiner Variante während der Sterilisation.

### **Erforderliche Maßnahmen**

1. Bitte informieren Sie die Anwender über diese Sicherheitsinformation und leiten Sie diese Mitteilung intern an alle interessierten/betroffenen Parteien weiter.
2. Krankenhäuser: Füllen Sie die beigegefügte Empfangsbestätigung aus und senden Sie ein unterzeichnetes Exemplar per Fax oder E-Mail an unseren Kundendienst unter +44 (0) 20 8953 0617 oder [Mets.requests@stanmoreimplants.com](mailto:Mets.requests@stanmoreimplants.com)

Aus unseren Unterlagen geht hervor, dass Sie das oben angegebene Produkt erhalten haben. Wir sind dafür verantwortlich, dass Kunden, die das betroffene Produkt erhalten haben, auch diese wichtige Mitteilung erhalten.

**Bitte unterstützen Sie uns dabei, unsere aufsichtsbehördliche Verpflichtung zu erfüllen, indem Sie uns die beiliegende Empfangsbestätigung innerhalb von 5 Tagen per Fax zurückschicken.**

Stanmore Implants Worldwide Limited ist weiterhin der Entwicklung, Herstellung und Vermarktung von Produkten von höchster Qualität für Chirurgen und Patienten verpflichtet. Wir entschuldigen uns für alle Unannehmlichkeiten, die Ihnen durch diese Korrekturmaßnahme entstehen könnten, und bedanken uns für Ihre Kooperation bei diesem Vorgang.

Falls Sie weitere Fragen haben, wenden Sie sich bitte an Ihren lokalen Vertriebsvertreter.  
Herzliche Grüße

[Unterschrift]

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Elstree, Hertfordshire, WD6 3SJ,  
Großbritannien  
+44 20 8238 6500  
Dervillia.Murphy@stryker.com  
Geschäftszeiten: 9:00 – 17:00 Uhr (GMT)

Anhänge:

1. Empfangsbestätigung
2. Anhang I – Aktualisierte Gebrauchsanweisungen für chirurgische Instrumente und Probeimplantate

TF04-6 Ausgabe 11: Chirurgische Instrumente und Probeimplantate – Gebrauchsanweisung

DM01-8 Ausgabe 10: Maßgefertigter Gelenkersatz – Gebrauchsanweisung

QL041 Ausgabe 04: JTS Erweiterbares distales Femurimplantat – Gebrauchsanweisung

QL042 Ausgabe 05: JTS Erweiterbares proximales Tibiaimplantat – Gebrauchsanweisung

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**STANMORE IMPLANTS WORLDWIDE LIMITED**  
**EMPFANGSBETÄTIGUNG – KORREKTURMASSNAHME**

23. Mai 2018

NAME:

ADRESSE:

STADT, ORT,

POSTLEITZAHL:

**FSCA-Kennung:** Produktbezogene Korrekturmaßnahme **PR 1457388**

**Art der Maßnahme:** Korrekturmaßnahme

**Beschreibung:** Aktualisierung der Gebrauchsanweisungen für unsterile Instrumente und Probeimplantate

**Betroffene(s) Produkt(e):** Chirurgische Instrumente und Probeimplantate

**Produktinformation**

Los: Alle chirurgischen Instrumente und Probeimplantate

Hiermit bestätige ich, dass ich die als Anhang I beigefügten Gebrauchsanweisungen erhalten und die in Abschnitt 3 aufgeführten britischen Sterilisationsparameter sowie die zusätzlichen Anweisungen bezüglich der Sterilisation des Standard-Einschlägers und seiner Variante gelesen habe.

\_\_\_\_\_  
Kunde  
(Unterschrift)

\_\_\_\_\_  
Datum

\_\_\_\_\_  
Kundenname  
(DRUCKBUCHSTABEN)

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Schicken Sie dieses unterschriebene und datierte Formular bitte per E-Mail an  
[Mets.requests@stammoreimplants.com](mailto:Mets.requests@stammoreimplants.com)

## **Appendix I - Updated Surgical Instruments and Trials IFUs**

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

## JTS® Non-Invasive Extendible Proximal Tibia Implant

### IFU - Instructions for Use

**Please Read in Conjunction with the Surgical Technique and the Operation Drawing Before Commencing Surgery**

#### 1. Implant description

The Stanmore Implants Worldwide JTS® Extendible Proximal Tibia Implant is manufactured in accordance with an approved prescription for a named patient. It **MUST NOT** be used for any other patient.

The patient name is detailed in the operation drawing supplied with the implant.

#### JTS® Extendible implant intended use/indications for use

The JTS® Extendible implant is indicated for cemented or cementless limb sparing procedures where radical resection and replacement of the proximal tibia is required with the following conditions:

Patients suffering from severe arthropathy of the knee that does not respond to any conservative therapy or better alternative surgical treatment;

Surgical intervention for severe trauma, revision arthroplasties, failed previous prostheses and/or oncology indications; and malignant diseases (e.g. osteogenic sarcoma).

The JTS® Extendible Proximal Tibia Implant and its components are for single use only.

#### 2. Warnings and precautions:



Stanmore Implants Worldwide JTS® Extendible Proximal Tibial Implant is manufactured in accordance with an approved prescription for a named patient. It must not be used for any other patient.



The JTS® Extendible Proximal Tibial Implant is supplied sterilised and must not be steam sterilised. Contact Stanmore Implants for advice.



The JTS® Extendible Proximal Tibial Implant is MRI UNSAFE and neither the implant nor a patient with an implant in place must be taken into an MRI environment.



If the packaging of parts marked sterile has been compromised or is damaged do not use.



Do not steam sterilise the JTS® Extendible Proximal Tibial Implant as this will damage the internal magnet and it will not extend.



Once implant has been fully inserted and secured with axle and circlip or axle and axle-cap, remove retaining clip located on the femoral component. Failure to do so will result in malfunction of the device and may lead to future surgical intervention.



All polyethylene components are supplied sterile and must not be re-sterilised if the sterility of the component has been compromised an alternative sterile component must be used



Stanmore Implants Worldwide JTS® Extendible Proximal Tibial Implant must not be used with products from other manufacturers. Different manufacturers have different tolerances and therefore a mismatch could lead to failure of the implant.



If cortical bone screws are to be used to fix the extra-cortical plate in place, these must be of a suitable size to fit through the plate (nominally ø4.5mm) and made from implant grade titanium.



The Stanmore Implants Worldwide JTS® Extendible Proximal Tibial Implant is for Single Use Only.



An operation instruction supplied with the implant contains patient specific information to aid the implantation



The surgical technique instruction must be read prior to carrying out any surgical procedure.



The patient should be cautioned to limit activities and protect the replaced joint from unreasonable stresses and follow the instructions of the physician with respect to follow-up care and treatment. The patient should be closely monitored if a change at the operative site has been detected. The possibility of deterioration of the joint should be evaluated and possible revision surgery considered.

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE



The patient should be warned of surgical risks and made aware of possible adverse effects. The patient should be warned that the prosthesis does not replace normal healthy bone. That the prosthesis can break or become damaged as a result of certain activity or trauma has a finite expected service life and may need to be replaced at some time in the future. The patient should also be advised of other risks that the surgeon believes should be disclosed.



Hitting or dropping the JTS® Extendible Proximal Tibial Implant can result in demagnetising the magnets in the growing section which will result in being unable to grow the implant.



Particular care and attention should be taken with respect to all bearing surfaces, tapers and ceramic coated surfaces.



If the HA coating is contaminated or damaged do not try to clean. Remove from use and contact Stanmore Implants Worldwide for advice.



The HA coated components are not to be cemented in place.



Improper use or mishandling of the components can result in damage to one or more of the components reducing the in-service life of the implant.



The surgical instruments are supplied not sterile. Sterilise before use in accordance with the instructions provided.



Surgical instruments must never be placed in physiological saline solution as contact leads to pitting and corrosion.



Improper cleaning tools (e.g. overlarge brushes, metal brushes) can cause damage. **DO NOT** use scouring agents or steel wool.



Ensure detergent solutions operate within a pH range of 6.0-8.0.



Any deviation from recommended sterilisation methods must be validated by the user.



The recommended sterilisation method is only valid with sterilisation equipment that is maintained, calibrated and operated in accordance with local regulatory guidelines.



Ensure steam quality meets acceptable standards to prevent damage and discolouration.



For any items that are supplied sterile check to ensure that they are still within their shelf life prior to use.



If there is more than six months between supply of the JTS® Extendible Proximal Tibial Implant and the implantation, further scans must be produced and reviewed against the design by Stanmore Implants Worldwide as this could result in a possible mis-match due to changes in bone geometry.



If revision of the implant is required, this should be carried out by a suitably qualified person. There are no special techniques required for the revision of a JTS® Extendible Proximal Tibial Implant. The revision procedure would use the same surgical procedure and tooling required for implantation



Before any action is taken to grow the JTS® Extendible Proximal Tibial Implant, the JTS Drive Unit operations manual must be read and understood



Specialised instruments are required to assemble and disassemble the components. Using other instruments may damage the components. Instruments can become damaged or may even fracture after repeated use or if used with excessive force. Instruments should be inspected prior to surgery and not used if damaged or worn excessively



Before any action is taken to grow the JTS® Extendible Proximal Tibial Implant, the operation Drawing must be consulted as this gives details of the direction of magnetic field rotation for each individual implant.



CT scans obtained with a metal implant inside the patient do produce artefacts and therefore tissue definition in the adjacent area is compromised and this must be taken into account when reviewing any results.

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

## **Indications and Complications**

### **2.1. Indications:**

- ☐ Primary bone tumours
- ☐ Secondary tumours arising in bone
- ☐ Non-neoplastic conditions affecting the shafts of long bone
- ☐ Failed joint replacements
- ☐ Failed massive replacements

The JTS® Extendible Proximal Tibial implant is indicated for cemented or cementless procedures where radical resection and replacement of the proximal tibia is required.

### **2.2. Contra-indications:**

Absolute contra-indications include

- ☐ Infection and sepsis

Relative contra-indications include

- ☐ Long delay between manufacturing and insertion of a patient specific implant may result in significant mismatch due to possible changes in bone geometry.
- ☐ Inadequate or incomplete soft tissue coverage.
- ☐ Uncooperative or unwilling patient or patient unable to follow instructions
- ☐ Foreign body sensitivity. Where materials sensitivity occurs seek advice with respect to testing
- ☐ Obesity
- ☐ Vascular disorder, neuromuscular disorders or muscular dystrophy

### **2.3. Patient Selection:**

Factors that should be considered are:

- Resection of neoplastic or diseased bone
- At risk from pathological fracture
- Pain relief and improved function
- Ability of patient to willingly follow instructions and undergo rehabilitation

### **2.4. Possible adverse effects:**

There is a range of potential adverse reactions; these may include:

- Patient sensitivity to implant materials which may ultimately require removal of the device
- Infection which may require temporary or permanent removal of the device
- Discolouration of the adjacent tissues may occur
- Fretting between metal parts is possible under certain circumstances

### **2.5. Intraoperative and early postoperative complications:**

These may include:

- Temporary or permanent nerve damage
- Damage to blood vessels
- Haematoma
- Cardiovascular disorders
- Pulmonary embolism
- Myocardial infarction or venous thrombosis
- Delayed wound healing
- Infection
- Loosening
- Varus and valgus deformity
- Dislocation

### **2.6. Late postoperative complications:**

These may include:

- Loosening
- Bone resorption
- Bone fracture
- Fatigue fracture of metal components
- Wear of components due to misalignment or excessive loading
- Inadequate range of movement
- Infection
- Metal sensitivity or allergic reaction



# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

## 3. Cleaning and Sterilisation

### 3.1. Implant sterilisation:

#### IMPORTANT



THE JTS® EXTENDIBLE PROXIMAL TIBIAL IMPLANT IS SUPPLIED STERILE **DO NOT STEAM  
STERILISE THE IMPLANT AS THIS WILL AFFECT ITS FUNCTION**



The implant has been sterilised using 25 to 40kGy gamma irradiation.



If the packaging of parts marked sterile has been compromised or is damaged **DO NOT** use.



If the sterility of the component has been compromised, an alternative sterile component **MUST** be used.

For all items that are not marked sterile (this includes all surgical instruments) the procedure in Section 3.2 must be followed.

### 3.2. Orthopaedic Instruments and Loaner sets:

All instruments are supplied NON-STERILE and must be cleaned and sterilised before use and before being returned to Stanmore Implants in accordance with instructions in this section.

#### a. **Information on methods**

Listed here are validated methods for disinfection, cleaning and sterilisation for user reprocessing of Stanmore Implants Worldwide Limited, orthopaedic Instruments and loaner sets. As far as possible, it is recommend that decontamination is performed using an automatic washing-disinfector utilising thermal disinfection, followed by steam sterilisation.

#### b. **Preparation for cleaning**

At the point of use, remove all excess visible soil and keep the reusable medical devices moist until cleaning. Any device capable of disassembly must be disassembled before cleaning. Ensure that thorough cleaning and rinsing is performed as soon as possible. Manual cleaning may be undertaken either by immersion or non-immersion techniques dependent upon the device construction but these instructions relate solely to a validated automated cleaning cycle.

#### c. **Cleaning Equipment and Agents**

##### **Water**

Water quality is an important consideration in all cleaning steps. Demineralised or deionised water is recommended as this can help prevent discolouration and staining.

##### **Detergents and Cleaning Agents**

Only suitable detergents and cleaning agents within a range of pH 6.0-8.0 may be used.

##### **Ultrasonic Cleaner**

Ultrasonic cleaning is suitable for an especially thorough, mild cleaning of heavily soiled, and other difficult to access locations such as joints, crevices and channels.

##### **Cleaning Equipment**

Non-abrasive low linting cloth and general purpose cleaning brushes.

#### d. **Product Cleaning Guidelines – Automatic**

The following validated cleaning instruction is based on general product features which present challenges to the cleaning process and not on specific products. The instructions presented are based on an automated method using a washer-disinfector and have been validated.

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

In the case of non-metals, unless otherwise instructed, reprocess following these guidelines.

## Equipment and reagents:

Washer/disinfector (Medisafe SI Auto Workstation), Enzyme based detergent (3E-Zyme).

## Procedure:

- i. Load the instruments into washer/disinfector ensuring that the basket is not overloaded and that hinges are open and cannulation holes are able to drain.
- ii. Run cycle (key stages):
  - Cold pre-wash: 3 minutes,  $< 35^{\circ}\text{C}$
  - Main wash: 13 minutes,  $43^{\circ}\text{C}$
  - Pre Rinse: 2 minutes,  $20^{\circ}\text{C}$
  - Disinfection fill
  - Thermal disinfection: 2 minutes,  $80-85^{\circ}\text{C}$
  - Air purge dry: 2 minutes
- iii. When the cycle is complete remove the contents from the washer for inspection.
- iv. Inspect each instrument for cleanliness. If soiling is still evident repeat the cleaning cycle.

## e. Steam Sterilisation

### IMPORTANT



THE JTS<sup>®</sup> EXTENDIBLE IMPLANT IS SUPPLIED STERILE **DO NOT STEAM STERILISE THE IMPLANT AS THIS WILL AFFECT ITS FUNCTION**



Partially unthread the polymeric cap of the General Impactor (approximately 2mm) while still ensuring that it fits in its specified location within the tray, to improve steam penetration during sterilisation.

The following sterilisation process should be used for those items supplied non-sterile.

It is recommended that these items are sterilised using prevacuum or porous load high temperature steam sterilisation

These devices must be placed in suitably wrapped porous membrane packaging for the sterilisation process (i.e. central supply wrap, autoclave bags, paper/polyethylene pouches etc.).

The suggested cycles, based on recommended industry standards and regulatory guidance consist of the following:

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Prevacuum	134-137°C	3 minutes (minimum)	30 minutes (minimum)

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Porous load	132 +/- 2°C (266-273°F)	4 minutes (minimum)	30 minutes (minimum)

Stanmore Implants has validated the above recommended sterilisation cycles. Other sterilisation methods and cycles may also be suitable. Individuals or hospitals are advised, to validate whichever method is considered appropriate for their organisation. Ethylene Oxide (EtO) and cold sterilisation techniques are not recommended.

Ensure that the polymeric cap is re-tightened on the General Impactor prior to use.

Ensure all components are dry prior to use.

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

## 3.3. Re-Sterilisation



If the JTS® Extendible Proximal Tibial Implant or polyethylene components require re-sterilisation they must be returned to Stanmore Implants. They **MUST NOT** be steam sterilised.



Orthopaedic Instruments and loaner sets should be cleaned and re-sterilised in accordance with the instructions in Section 3.2

# JTS EXTENDIBLE PROXIMAL TIBIA IMPLANT INSTRUCTIONS FOR USE

	<b>Company Information</b> <b>Manufacturer</b> Stanmore Implants Worldwide Ltd 210 Centennial Avenue Centennial Park Elstree Hertfordshire WD6 3SJ United Kingdom  Tel: +44 (0) 20 8238 6500 Fax: +44 (0) 20 8953 0617	<b>Contact Information</b>  If further information is required on Stanmore Implants' devices or instrumentation please contact the Design Services Office:  Tel: +44 (0) 20 8238 6500 Fax: +44 (0) 20 8953 0617  E-mail: <a href="mailto:designgroup@stryker.com">designgroup@stryker.com</a>
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# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

## JTS® Non-Invasive Extendible Distal Femoral Implant

### IFU - Instructions for Use

**Please Read in Conjunction with the Surgical Technique and the Operation  
Drawing Before Commencing Surgery**

#### 1. Implant description

The Stanmore Implants Worldwide JTS® Extendible Distal Femoral implant is manufactured in accordance with an approved prescription for a named patient. It **MUST NOT** be used for any other patient.

The patient name is detailed in the operation drawing supplied with the implant.

#### JTS® Extendible implant intended use/indications for use

The JTS® Extendible implant is indicated for cemented and cementless limb sparing procedures where radical resection and replacement of the distal femur is required with the following conditions:

Patients suffering from severe arthropathy of the knee that does not respond to any conservative therapy or better alternative surgical treatment;

Surgical intervention for severe trauma, revision arthroplasties, failed previous prostheses and/or oncology indications; and malignant diseases (e.g. osteogenic sarcoma).

The JTS® Extendible Distal Femoral Implant and its components are for single use only.

#### 2. Warnings and precautions:



Stanmore Implants Worldwide JTS® Extendible Distal Femoral Implant is manufactured in accordance with an approved prescription for a named patient. It must not be used for any other patient.



The JTS® Extendible Distal Femoral Implant is supplied sterilised and must not be steam sterilised. Contact Stanmore Implants for advice.



The JTS® Extendible Distal Femoral Implant is MRI UNSAFE and neither the implant nor a patient with an implant in place must be taken into an MRI environment.



If the packaging of parts marked sterile has been compromised or is damaged do not use.



Do not steam sterilise the JTS® Extendible Distal Femoral Implant as this will damage the internal magnet and it will not extend.



Once implant has been fully inserted and secured with axle and circlip or axle and axle-cap, remove retaining clip located on the femoral component. Failure to do so will result in malfunction of the device and may lead to future surgical intervention.



All polyethylene components are supplied sterile and must not be re-sterilised if the sterility of the component has been compromised an alternative sterile component must be used



Stanmore Implants Worldwide JTS® Extendible Distal Femoral Implant must not be used with products from other manufacturers. Different manufacturers have different tolerances and therefore a mismatch could lead to failure of the implant.



If cortical bone screws are to be used to fix the extra-cortical plate in place, these must be of a suitable size to fit through the plate (nominally ø4.5mm) and made from implant grade titanium.



The Stanmore Implants Worldwide JTS® Extendible Distal Femoral Implant is for Single Use Only.



An operation instruction supplied with the implant contains patient specific information to aid the implantation



The operation technique instruction must be read prior to carrying out any surgical procedure.



The patient should be cautioned to limit activities and protect the replaced joint from unreasonable stresses and follow the instructions of the physician with respect to follow-up care and treatment. The patient should be closely monitored if a change at the operative site has been detected. The possibility of deterioration of the joint should be evaluated and possible revision surgery considered.

# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT

## INSTRUCTIONS FOR USE



The patient should be warned of surgical risks and made aware of possible adverse effects. The patient should be warned that the prosthesis does not replace normal healthy bone. That the prosthesis can break or become damaged as a result of certain activity or trauma has a finite expected service life and may need to be replaced at some time in the future. The patient should also be advised of other risks that the surgeon believes should be disclosed.



Hitting or dropping the JTS® Extendible Distal Femoral Implant can result in demagnetising the magnets in the growing section which will result in being unable to grow the implant.



Particular care and attention should be taken with respect to all bearing surfaces, tapers and ceramic coated surfaces.



If the HA coating is contaminated or damaged do not try to clean. Remove from use and contact Stanmore Implants Worldwide for advice.



The HA coated components are not to be cemented in place.



Improper use or mishandling of the components can result in damage to one or more of the components reducing the in-service life of the implant.



The Surgical instruments are supplied not sterile. Sterilise before use in accordance with the instructions provided.



Surgical instruments must never be placed in physiological saline solution as contact leads to pitting and corrosion.



Improper cleaning tools (e.g. overlarge brushes, metal brushes) can cause damage. **DO NOT** use scouring agents or steel wool.



Ensure detergent solutions operate within a pH range of 6.0-8.0.



Any deviation from recommended sterilisation methods must be validated by the user.



The recommended sterilisation method is only valid with sterilisation equipment that is maintained, calibrated and operated in accordance with local regulatory guidelines.



Ensure steam quality meets acceptable standards to prevent damage and discolouration.



For any items that are supplied sterile check to ensure that they are still within their shelf life prior to use.



If there is more than six months between supply of the JTS® Extendible Distal Femoral Implant and the implantation, further scans must be produced and reviewed against the design by Stanmore Implants Worldwide as this could result in a possible mis-match due to changes in bone geometry.



If revision of the implant is required, this should be carried out by a suitably qualified person. There are no special techniques required for the revision of a JTS® Extendible Distal Femoral Implant. The revision procedure would use the same surgical procedure and tooling required for implantation



Before any action is taken to grow the JTS® Extendible Distal Femoral Implant, the JTS Drive Unit operations manual must be read and understood



Specialised instruments are required to assemble and disassemble the components. Using other instruments may damage the components. Instruments can become damaged or may even fracture after repeated use or if used with excessive force. Instruments should be inspected prior to surgery and not used if damaged or worn excessively



Before any action is taken to grow the JTS® Extendible Distal Femoral Implant, the operation Drawing must be consulted as this gives details of the direction of magnetic field rotation for each individual implant.



CT scans obtained with a metal implant inside the patient do produce artefacts and therefore tissue definition in the adjacent area is compromised and this must be taken into account when reviewing any results.

# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

## **Indications and Complications**

### **2.1. Indications:**

- Primary bone tumours
- Secondary tumours arising in bone
- Non-neoplastic conditions affecting the shafts of long bone
- Failed joint replacements
- Failed massive replacements

The JTS® Extendible Distal Femoral implant is indicated for cemented and cementless procedures where radical resection and replacement of the distal femur is required.

### **2.2. Contra-indications:**

Absolute contra-indications include

- Infection and sepsis

Relative contra-indications include

- Long delay between manufacturing and insertion of a patient specific implant may result in significant mismatch due to possible changes in bone geometry.
- Inadequate or incomplete soft tissue coverage.
- Uncooperative or unwilling patient or patient unable to follow instructions
- Foreign body sensitivity. Where materials sensitivity occurs seek advice with respect to testing
- Obesity
- Vascular disorder, neuromuscular disorders or muscular dystrophy

### **2.3. Patient Selection:**

Factors that should be considered are:

- Resection of neoplastic or diseased bone
- At risk from pathological fracture
- Pain relief and improved function
- Ability of patient to willingly follow instructions and undergo rehabilitation

### **2.4. Possible adverse effects:**

There is a range of potential adverse reactions; these may include:

- Patient sensitivity to implant materials which may ultimately require removal of the device
- Infection which may require temporary or permanent removal of the device
- Discolouration of the adjacent tissues may occur
- Fretting between metal parts is possible under certain circumstances

### **2.5. Intraoperative and early postoperative complications:**

These may include:

- Temporary or permanent nerve damage
- Damage to blood vessels
- Haematoma
- Cardiovascular disorders
- Pulmonary embolism
- Myocardial infarction or venous thrombosis
- Delayed wound healing
- Infection
- Loosening
- Varus and valgus deformity
- Dislocation

### **2.6. Late postoperative complications:**

These may include:

- Loosening
- Bone resorption
- Bone fracture
- Fatigue fracture of metal components
- Wear of components due to misalignment or excessive loading
- Inadequate range of movement
- Infection
- Metal sensitivity or allergic reaction

# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

## 3. Cleaning and Sterilisation

### 3.1. Implant sterilisation:

#### IMPORTANT



THE JTS® EXTENDIBLE DISTAL FEMORAL IMPLANT IS SUPPLIED STERILE **DO NOT STEAM STERILISE THE IMPLANT AS THIS WILL AFFECT ITS FUNCTION**



The implant has been sterilised using 25 to 40kGy gamma irradiation.



If the packaging of parts marked sterile has been compromised or is damaged **DO NOT** use.



If the sterility of the component has been compromised, an alternative sterile component **MUST** be used.

For all items that are not marked sterile (this includes all surgical instruments) the procedure in Section 3.2 must be followed.

### 3.2. Orthopaedic Instruments and Loaner Sets:

All instruments are supplied NON-STERILE and must be cleaned and sterilised before use and before being returned to Stanmore Implants in accordance with instructions in this section.

#### a. **Information on methods**

Listed here are validated methods for disinfection, cleaning and sterilisation for user reprocessing of Stanmore Implants Worldwide Limited, orthopaedic Instruments and loaner sets. As far as possible, it is recommend that decontamination is performed using an automatic washing-disinfector utilising thermal disinfection, followed by steam sterilisation.

#### b. **Preparation for cleaning**

At the point of use, remove all excess visible soil and keep the reusable medical devices moist until cleaning. Any device capable of disassembly must be disassembled before cleaning. Ensure that thorough cleaning and rinsing is performed as soon as possible. Manual cleaning may be undertaken either by immersion or non-immersion techniques dependent upon the device construction but these instructions relate solely to a validated automated cleaning cycle.

#### c. **Cleaning Equipment and Agents**

##### **Water**

Water quality is an important consideration in all cleaning steps. Demineralised or deionised water is recommended as this can help prevent discolouration and staining.

##### **Detergents and Cleaning Agents**

Only suitable detergents and cleaning agents within a range of pH 6.0-8.0 may be used.

##### **Ultrasonic Cleaner**

Ultrasonic cleaning is suitable for an especially thorough, mild cleaning of heavily soiled, and other difficult to access locations such as joints, crevices and channels.

##### **Cleaning Equipment**

Non-abrasive low linting cloth and general purpose cleaning brushes.



# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

## d. Product Cleaning Guidelines – Automatic

The following validated cleaning instruction is based on general product features which present challenges to the cleaning process and not on specific products. The instructions presented are based on an automated method using a washer-disinfector and have been validated.

In the case of non-metals, unless otherwise instructed, reprocess following these guidelines.

### Equipment and reagents:

Washer/disinfector (Medisafe SI Auto Workstation), Enzyme based detergent (3E-Zyme).

### Procedure:

- i. Load the instruments into washer/disinfector ensuring that the basket is not overloaded and that hinges are open and cannulation holes are able to drain.
- ii. Run cycle (key stages):
  - Cold pre-wash: 3 minutes, < 35°C
  - Main wash: 13 minutes, 43°C
  - Pre Rinse: 2 minutes, 20°C
  - Disinfection fill
  - Thermal disinfection: 2 minutes, 80-85°C
  - Air purge dry: 2 minutes
- iii. When the cycle is complete remove the contents from the washer for inspection.
- iv. Inspect each instrument for cleanliness. If soiling is still evident repeat the cleaning cycle.

## e. Steam Sterilisation

### IMPORTANT



THE JTS® EXTENDIBLE IMPLANT IS SUPPLIED STERILE **DO NOT STEAM STERILISE THE IMPLANT AS THIS WILL AFFECT ITS FUNCTION**



Partially unthread the polymeric cap of the General Impactor (approximately 2mm) while still ensuring that it fits in its specified location within the tray, to improve steam penetration during sterilisation.

The following sterilisation process should be used for those items supplied non-sterile.

It is recommended that these items are sterilised using prevacuum or porous load high temperature steam sterilisation

These devices must be placed in suitably wrapped porous membrane packaging for the sterilisation process (i.e. central supply wrap, autoclave bags, paper/polyethylene pouches etc.).

The suggested cycles, based on recommended industry standards and regulatory guidance consist of the following:

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Prevacuum	134-137°C	3 minutes (minimum)	30 minutes (minimum)

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Porous load	132 +/- 2°C (266-273°F)	4 minutes (minimum)	30 minutes (minimum)

Ensure the polymeric cap is re-tightened on the General Impactor prior to use.

Ensure all components are dry prior to use.

Stanmore Implants has validated the above recommended sterilisation cycles. Other sterilisation methods and cycles may also be suitable. Individuals or hospitals are advised, to validate whichever method is considered appropriate for

# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

their organisation. Ethylene Oxide (EtO) and cold sterilisation techniques are not recommended.

## 3.3. **Re-Sterilisation**



If the JTS® Extendible Distal Femoral Implant or polyethylene components require re-sterilisation they must be returned to Stanmore Implants. They **MUST NOT** be steam sterilised.



Orthopaedic Instruments and loaner sets should be cleaned and re-sterilised in accordance with the instructions in Section 3.2

# JTS EXTENDIBLE DISTAL FEMORAL IMPLANT INSTRUCTIONS FOR USE

	<b>Company Information</b>  <b>Manufacturer</b> <b>Stanmore Implants</b> <b>Worldwide Ltd</b> <b>210 Centennial Avenue</b> <b>Centennial Park</b> <b>Elstree</b> <b>Hertfordshire</b> <b>WD6 3SJ</b> <b>United Kingdom</b>  <b>Tel: +44 (0) 20 8238 6500</b> <b>Fax: +44 (0) 20 8953 0617</b>	<b>Contact Information</b>  <b>If further information is required on Stanmore Implants' devices or instrumentation please contact the Design Services Office:</b>  <b>Tel: +44 (0) 20 8238 6500</b> <b>Fax: +44 (0) 20 8953 0617</b>  <b>E-mail: <a href="mailto:designngroup@stryker.com">designngroup@stryker.com</a></b>
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# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.**

Content	Section	Pages
Warnings and Precautions	1	1
Indications and contraindications	2	3
Patient selection	2	3
Possible adverse effects	2	3
Intraoperative and early postoperative complications	2	3
Late postoperative complications	2	4
Instrument sterilisation	3	4
Instrument Cleaning	4	5
Re-sterilisation	5	6
Declaration of contamination status	Appendix 1	7

## **Implant description:**

SIW “Custom made” implants are manufactured in accordance with an approved prescription for a named patient. It **MUST NOT** be used for any other patient.

## **Section 1**



### **WARNINGS and PRECAUTIONS**



SIW Custom made implants are manufactured in accordance with an approved prescription for a named patient. It must not be used for any other patient.



If the packaging of parts marked sterile has been compromised or is damaged do not use.



All plastic components are supplied sterile and must not be re-sterilised if the sterility of the component has been compromised an alternative sterile component must be used.



Stanmore Implants Worldwide custom implants must not be used with products from other manufacturers unless it is specifically authorised. Different manufacturers have different tolerances and therefore a mismatch could lead to failure of the implant. An operation instruction supplied with the implant contains any such authorisation.



The Stanmore Implants Worldwide custom implant are for Single Use Only.

# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

## PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.



An operation instruction supplied with the implant contains patient specific information to aid the implantation.



The operation technique instruction must be read prior to carrying out any surgical procedure.



The patient should be cautioned to limit activities and protect the replaced joint from unreasonable stresses and follow the instructions of the physician with respect to follow-up care and treatment. The patient should be closely monitored if a change at the operative site has been detected. The possibility of deterioration of the joint should be evaluated and possible revision surgery considered.



The patient should be warned of surgical risks and made aware of possible adverse effects. The patient should be warned that the prosthesis does not replace normal healthy bone, that the prosthesis can break or become damaged as a result of certain activity or trauma, has a finite expected service life and may need to be replaced at some time in the future. The patient should also be advised of other risks that the surgeon believes should be disclosed.



Improper use or mishandling of the components can result in damage to one or more of the components reducing the in-service life of the implant.



Particular care and attention should be taken with respect to all bearing surfaces, tapers and ceramic coated surfaces.



If the HA coating is contaminated or damaged do not try to clean. Remove from use and contact Stanmore Implants Worldwide for advice.



The Surgical instruments are supplied not sterile. Clean and sterilise before use in accordance with the instructions provided



Surgical instruments must never be placed in physiological saline solution as contact leads to pitting and corrosion.



Improper cleaning tools (e.g. overlarge brushes, metal brushes) can cause damage. **DO NOT** use scouring agents or steel wool.



Ensure detergent solutions operate within a pH range of 6.0-8.0.



Any deviation from recommended sterilisation methods must be validated by the user.



The recommended sterilisation method is only valid with sterilisation equipment that is maintained, calibrated and operated in accordance with local regulatory guidelines.



Ensure steam quality meets acceptable standards to prevent damage and discolouration



For any items that are supplied sterile check to ensure that they are still within their shelf life prior to use.

If there is more than two months between supply custom implant and the implantation,

# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.**



further scans must be produced and reviewed against the design by Stanmore Implants Worldwide as this could result in a possible mis-match due to changes in bone geometry.



Specialised instruments are required to assemble and disassemble the components. Using other instruments may damage the components. Instruments can become damaged or may even fracture after repeated use or if used with excessive force. Instruments should be inspected prior to surgery and not used if damaged or worn excessively

## **Section 2**

### **Indications:**

- Primary bone tumours
- Secondary tumours arising in bone
- Non-neoplastic conditions affecting the shafts of long bone
- Failed joint replacements
- Failed massive replacements

### **Contraindications:**

- Absolute contra-indications include
  - Infection and sepsis
- Relative contra-indications include
  - Long delay between manufacturing and insertion of a custom-made implant may result in significant mismatch due to possible changes in bone geometry
  - Inadequate or incomplete soft tissue coverage
  - Uncooperative or unwilling patient or patient unable to follow instruction
  - Foreign body sensitivity. Where materials sensitivity occurs seek advice with respect to testing
  - Obesity
  - Vascular disorder, neuromuscular disorders or muscular dystrophy

### **Patient Selection:**

Factors that should be considered are

- Resection of neoplastic or diseased bone
- At risk from pathological fracture
- Pain relief and improved function
- Ability of patient to willingly follow instructions and under go rehabilitation

### **Possible adverse effects:**

There are a range of potential adverse reactions these may include

- Patient sensitivity to implant materials which may ultimately require removal of the device
- Infection which may require temporary or permanent removal of the device
- Discolouration of the adjacent tissues may occur
- Fretting between metal parts is also possible under certain circumstances

# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.**

## **Intraoperative and early postoperative complications**

These may include

- Temporary or permanent nerve damage
- Damage to blood vessels
- Haematoma
- Cardiovascular disorders
- Pulmonary embolism
- Myocardial infarction or venous thrombosis
- Delayed wound healing
- Infection
- Loosening
- Varus and valgus deformity
- Dislocation

## **Late postoperative complications**

These may include

- Loosening
- Bone resorption
- Bone fracture
- Fatigue fracture of metal components
- Wear of components due to misalignment or excessive loading
- Inadequate range of movement
- Infection
- Metal sensitivity or allergic reaction

# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.

## Cleaning and Sterilisation

All Instruments must be cleaned and sterilised prior to returning to Stanmore Implants Worldwide in accordance with the procedures defined in sections 3 and 4 and the form in appendix 1 must be completed and returned with any items being sent back to Stanmore Implants.

### Section 3

#### INSTRUMENT STERILISATION

##### IMPORTANT



All instruments **MUST** be cleaned prior to sterilisation (see section 4).



Partially unthread the polymeric cap of the General Impactor (approximately 2mm) while still ensuring that it fits in its specified location within the tray, to improve steam penetration during sterilization.



If the implant is marked as STERILE on the packaging. It has been sterilised using 25 to 40KGy gamma irradiation **DO NOT** re-sterilise.



All components that are supplied sterile will be marked on the packaging as STERILE. They have been sterilised using 25 to 40KGy gamma irradiation **DO NOT** re-sterilise.



If the packaging of parts marked sterile has been compromised or is damaged **DO NOT** use.



All plastic components are supplied sterile and **MUST NOT** be re-sterilised. If the sterility of the component has been compromised, an alternative sterile component must be

For all items that are not marked sterile the following procedure should be followed:

The following sterilisation process should be used for instruments supplied non-sterile

The instruments are recommended to be sterilised using prevacuum or porous load, high temperature steam sterilisation

These devices must be placed in suitably wrapped porous membrane packaging for the sterilisation process (i.e. central supply wrap, autoclave bags, paper/plastic pouches etc.).

The suggested cycles, based on recommended industry standards and regulatory guidance consist of the following:

Method:	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Prevacuum	134-137m	3 minutes (minimum)	30 minutes (minimum)



# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.**

Method:	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Porous Load	134 +/-2°C	4 minutes (minimum)	30 minutes (minimum)

Stanmore Implants has validated the above recommended sterilisation cycles. Other sterilisation methods and cycles may also be suitable. Individuals or hospitals are advised, to validate whichever method is considered appropriate for their organisation. Ethylene Oxide (EtO) and cold sterilisation techniques are not recommended.

Ensure the polymeric cap is re-tightened on the General Impactor prior to use.

Ensure all components are dry prior to use.

## **Section 4**

### **ORTHOPAEDIC INSTRUMENTS AND LOANER SETS**

All instruments are supplied cleaned but are NON-STERILE and must be cleaned and sterilised before use and before being returned to Stanmore Implants in accordance with instructions in section 3 and 4 and the form in appendix 1 must be completed.

#### **a. Information on methods**

Listed here are validated methods for disinfection, cleaning and sterilisation for user reprocessing of Stanmore Implants Worldwide Limited, Orthopaedic Instruments and Loaner sets. As far as possible, it is recommended that decontamination is performed using an automatic washing-disinfector utilising thermal disinfection, followed by steam sterilisation.

#### **b. Preparation for cleaning**

At the point of use, remove all excess visible soil and keep the reusable medical devices moist until cleaning. Any device capable of disassembly must be disassembled before cleaning. Ensure that thorough cleaning and rinsing is performed as soon as possible. Manual cleaning may be undertaken either by immersion or non-immersion techniques dependent upon the device construction but these instructions relate solely to a validated automated cleaning cycle.

#### **c. Cleaning Equipment and Agents**

Water

Water quality is an important consideration in all cleaning steps. Demineralised or deionised water is recommended as this can help prevent discolouration and staining.

**Detergents  
and Cleaning  
Agents  
Ultrasonic**

Only suitable detergents and cleaning agents within a range of pH 6.0-8.0 may be used.

Cleaner

Ultrasonic cleaning is suitable for an especially thorough, mild cleaning of heavily soiled, and other difficult to access locations such as joints, crevices and channels.

**Cleaning  
Equipment**

Non-abrasive low linting cloths and general purpose cleaning brushes.

# CUSTOM MADE PROSTHETIC REPLACEMENT INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH THE SUPPLIED OPERATION  
TECHNIQUE INSTRUCTION AND THE OPERATION DRAWING.**

## d. Product Cleaning Guidelines – Automatic

The following validated cleaning instruction is based on general product features which present challenges to the cleaning process and not on specific products. The instructions presented are based on an automated method using a washer-disinfector and have been validated.

In the case of non-metals, unless otherwise instructed, reprocess following these guidelines.

### Equipment and reagents:

Washer/disinfector (Medisafe SI Auto Workstation), Enzyme based detergent (3E-Zyme).

### Procedure:

- i. Load the instruments into washer/disinfector ensuring that the basket is not overloaded and that hinges are open and cannulation holes are able to drain.
- ii. Run cycle (key stages):
  - Cold pre-wash: 3 minutes, < 35°C
  - Main wash: 13 minutes, 43°C
  - Pre Rinse: 2 minutes, 20°C
  - Disinfection fill
  - Thermal disinfection: 2 minutes, 80-85°C
  - Air purge dry: 2 minutes
- iii. When the cycle is complete remove the contents from the washer for inspection.
- iv. Inspect each instrument for cleanliness. If soiling is still evident repeat the cleaning cycle.

## Section 5

### **RE-STERILISATION**

Plastic parts **MUST NOT** be re-sterilised.

If an implant requires re-sterilisation please contact SIW for advice.

Re-sterilise using an autoclave as per section 3. Re-sterilisation and validation of the autoclave is the responsibility of the hospital and not SIW or its agent.

Orthopaedic Instruments and Loaner sets should be cleaned and re-sterilised in accordance with the instructions in section 3 and 4

	Company Information	Contact Information
	<b>Manufacturer</b> <b>Stanmore Implants</b> <b>Worldwide Ltd</b> <b>210 Centennial Avenue</b> <b>Centennial Park</b> <b>Elstree</b> <b>Hertfordshire</b> <b>WD6 3SJ</b> <b>United Kingdom</b> <b>Tel +44 (0) 208 2386500</b> <b>Fax +44 (0) 208 9537443</b>	<b>If further information is required on Stanmore Implants devices or instrumentation please contact the Design Office:</b>  <b>Tel: (+44) 020 89541402</b> <b>Fax: (+44) 020 89530617</b>  <b><u><a href="mailto:designgroup@stryker.com">E-mail: designgroup@stryker.com</a></u></b>

# Declaration of Contamination Status

This form is only to be used for the return of Instruments used with a custom implants for standard product please use appendix in form TF04-06.

Local forms can be supplied as an alternative as long as all the required information is supplied.

Product Description				Product Identification			
From				Address			
Contact Name				Emergency contact number			
Contact e-mail				Have any of the items been contaminated			
Yes *				No			
Don't Know				Please circle			
* State type of contamination: Blood, Body fluids, or any other hazard							
Have the items been decontaminated				Yes †			
No ‡				Don't Know			
Please circle				Yes			
No				Please circle			
† Was the process in accordance with the information given DM01/8-7 July 09 sections 3 and 4							
IF NO please provide details of what cleaning and sterilisation process was used							
‡ Please explain why the items have not been decontaminated							
Signature of person completing the form				Date			
Print Name				Job Title			
By signing this form you are confirming that all of the information is correct and accurate to the best of your knowledge at the time of approval.							
<p><b>CONTAMINATED ITEMS MUST NOT BE RETURNED WITHOUT THE PRIOR AGREEMENT AND KNOWLEDGE OF STANMORE IMPLANTS WORLDWIDE.</b></p> <p><b>THEY MUST BE RETURNED SUITABLY PACKAGED AND IDENTIFIED.</b></p>							

# SURGICAL INSTRUMENTS AND TRIALS












## INSTRUCTIONS FOR USE

PLEASE READ THIS IN CONJUNCTION WITH SURGICAL PROCEDURE

<u>Content</u>	<u>Section</u>	<u>Pages</u>
Warnings and Precautions	1	1
Trials and Instrument Cleaning	2	2
Trials and instrument sterilisation	3	3
Re-sterilisation	4	4
Declaration of contamination status	Appendix 1	5
Release Note	Appendix 2	6

### Section 1

#### **WARNINGS and PRECAUTIONS**

-  **DO NOT** implant the trial implants
-  Stanmore Implants Worldwide trial implants must not be used with products from other manufacturers.
-  The surgical procedure must be read prior to carrying out any surgical procedure.
-  For instructions in the use of the trial instruments refer to the surgical planning guide provided.
-  Improper use or mishandling of the components can result in damage to one or more of the components, or improper selection of implants.
-  The surgical instruments and trials are supplied **NON-STERILE**. Clean and sterilise before use, in accordance with the instructions provided (see Section 2 and 3.)
-  Surgical instruments must never be placed in physiological saline solution as contact leads to pitting and corrosion.
-  Improper cleaning tools (e.g. overlarge brushes, metal brushes) can cause damage. **DO NOT** use scouring agents or steel wool.
-  Ensure detergent solutions operate within a pH range of 6.0-8.0.
-  Any deviation from recommended sterilisation methods must be validated by the user.
-  The recommended sterilisation method is only valid with sterilisation equipment that is maintained, calibrated and operated in accordance with local regulatory guidelines.

# SURGICAL INSTRUMENTS AND TRIALS

## INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH SURGICAL PROCEDURE**



Ensure steam quality meets acceptable standards to prevent damage and discolouration



Do not sterilise using either Ethylene Oxide (EtO) or cold sterilisation techniques.

### **Cleaning and Sterilisation**

**All Instruments and trials must be cleaned and sterilised prior to returning to Stanmore Implants Worldwide in accordance with the procedures defined in Sections 2 and 3 and the form in Appendix 1 must be completed and returned with any items being sent back to Stanmore Implants.**

### **Section 2**

#### **TRIALS and INSTRUMENTS CLEANING INSTRUCTIONS**

All instruments are supplied cleaned but are NON-STERILE and must be cleaned and sterilised before use and before being returned to Stanmore Implants in accordance with the instructions in Sections 2 and 3 and the form in Appendix 1 must be completed.

#### **a. Information on methods**

Listed here are validated methods for disinfection, cleaning and sterilisation for user reprocessing of Stanmore Implants Worldwide Limited, Orthopaedic Instruments and Trials sets. As far as possible, it is recommend that decontamination is performed using an automatic washing-disinfector utilising thermal disinfection, followed by steam sterilisation.

#### **b. Preparation for cleaning**

At the point of use, remove all excess visible soil and keep the reusable medical devices moist until cleaning. Any device capable of disassembly must be disassembled before cleaning. Ensure that thorough cleaning and rinsing is performed as soon as possible. Manual cleaning may be undertaken either by immersion or non-immersion techniques dependent upon the device construction but these instructions relate solely to a validated automated cleaning cycle.

#### **c. Cleaning Equipment and Agents**

<b>Water</b>	Water quality is an important consideration in all cleaning steps. Demineralised or deionised water is recommended as this can help prevent discolouration and staining.
<b>Detergents and Cleaning Agents</b>	Only suitable detergents and cleaning agents within a range of pH 6.0-8.0 may be used.
<b>Ultrasonic Cleaner</b>	Ultrasonic cleaning is suitable for an especially thorough, mild cleaning of heavily soiled, and other difficult to access locations such as joints, crevices and channels.
<b>Cleaning Equipment</b>	Non-abrasive low linting clothe and general purpose cleaning brushes.

# SURGICAL INSTRUMENTS AND TRIALS INSTRUCTIONS FOR USE

## PLEASE READ THIS IN CONJUNCTION WITH SURGICAL PROCEDURE

### d. Product Cleaning Guidelines – Automatic

The following validated cleaning instruction is based on general product features which present challenges to the cleaning process and not on specific products. The instructions presented are based on an automated method using a washer-disinfector and have been validated.

In the case of non-metals, unless otherwise instructed, reprocess following these guidelines.

#### Equipment and reagents:

Washer/disinfector (Medisafe SI Auto Workstation), Enzyme based detergent (3E-Zyme).

#### Procedure:

- i. Load the instruments into washer/disinfector ensuring that the basket is not overloaded and that hinges are open and cannulation holes are able to drain.
- ii. Run cycle (key stages):
  - Cold pre-wash: 3 minutes , < 35°C
  - Main wash: 13 minutes, 43°C
  - Pre Rinse: 2 minutes, 20°C
  - Disinfection fill
  - Thermal disinfection: 2 minutes, 80-85°C
  - Air purge dry: 2 minutes
- iii. When the cycle is complete remove the contents from the washer for inspection.
- iv. Inspect each instrument for cleanliness. If soiling is still evident repeat the cleaning cycle.

## Section 3

### TRIALS and INSTRUMENT STERILISATION

#### IMPORTANT



All trials and instruments **MUST** be cleaned prior to sterilisation (see section 2)



Partially unthread the polymeric cap of the General Impactor (approximately 2mm) while still ensuring that it fits in its specified location within the tray, to improve steam penetration during sterilisation.

The following sterilisation process should be used for trials and instrumentation.

The trials and instrumentation are recommended to be sterilised using prevacuum or porous load, high temperature steam sterilisation (air removal via pulsed pre-vacuum method)

These devices must be placed in suitably wrapped porous membrane packaging for the sterilisation process (i.e. central supply wrap, autoclave bags, paper/plastic pouches etc.).

The suggested cycles, based on recommended industry standards and regulatory guidance consist of the following:

# SURGICAL INSTRUMENTS AND TRIALS

## INSTRUCTIONS FOR USE

**PLEASE READ THIS IN CONJUNCTION WITH SURGICAL PROCEDURE**

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Prevacuum	134-137°C	3 minutes (minimum)	30 minutes (minimum)

Method	Cycle Type	Temperature	Exposure Time	Drying Time
Steam	Porous load	132°C	4 minutes (minimum)	30 minutes (minimum)

Stanmore Implants has validated the above recommended sterilisation cycles. Other sterilisation methods and cycles may also be suitable. Individuals or hospitals are advised, however to validate whichever method is considered appropriate for their organisation. Ethylene Oxide (EtO) and cold sterilisation techniques are not recommended.

Ensure the polymeric cap is re-tightened on the General Impactor prior to use.

Ensure all components are dry prior to use.

## Section 4

### RE- STERILISATION

Orthopaedic instruments and trials should be cleaned and re-sterilised in accordance with the instructions in section 2 and 3.

<div data-bbox="143 1478 231 1590"></div> <p><b>Company Information</b></p> <p><b>Manufacturer</b></p> <p><b>Stanmore Implants Worldwide Ltd</b> 210 Centennial Avenue Centennial Park Elstree Hertfordshire WD6 3SJ United Kingdom Tel +44 (0) 208 2386500 Fax +44 (0) 208 9537443</p> <p><b>CE</b> 0120</p>	<p><b>Contact Information</b></p> <p>If further information is required on Stanmore Implants devices or instrumentation please contact the Design Office:</p> <p><b>Tel: (+44) 020 8954 1402</b> <b>Fax: (+44) 020 8953 0167</b> <b>E-mail: <a href="mailto:designgroup@stryker.com">designgroup@stryker.com</a></b></p>
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# Declaration of Contamination Status

This form is only to be used for the return of Trials and Instruments used with a METS modular system product.  
Local forms can be supplied as an alternative as long as all the required information is supplied.

Product Description		Product Identification		
From				
Address				
Contact Name				
Emergency contact number		Contact e-mail		
Have any of the items been contaminated	Yes *	No	Don't Know	Please circle
* State type of contamination: Blood, Body fluids, or any other hazard				
Have the items been decontaminated	Yes †	No ‡	Don't Know	Please circle
† Was the process in accordance with the information given TF04-06 Issue 8 sections 2 and 3			Yes	No
			Please circle	
IF NO please provide details of what cleaning and sterilisation process was used				
‡ Please explain why the items have not been decontaminated				
Signature of person completing the form		Date		
Print Name		Job Title		
By signing this form you are confirming that all of the information is correct and accurate to the best of your knowledge at the time of approval.				
<p><b>ANY CONTAMINATED INSTRUMENTS OR TRIALS <u>MUST NOT</u> BE RETURNED WITHOUT THE PRIOR AGREEMENT AND KNOWLEDGE OF STANMORE IMPLANTS WORLDWIDE.</b></p> <p><b>THE INSTRUMENTS OR TRIALS MUST BE RETURNED SUITABLY PACKAGED AND IDENTIFIED.</b></p>				



# METs RELEASE NOTE

## **METS MODULAR SYSTEM**

**CRC Number:** \_\_\_\_\_

### **SURGICAL INSTRUMENTS AND TRIALS: (Decontamination Certificate)**

Special Instruments/ Trials included with the above system

Yes

☐

No

☐

These instruments/trials were previously used in a surgical invasive procedure and were exposed to blood, body fluids or pathological samples. These items were subsequently cleaned and sterilised prior to return to Stanmore Implants Worldwide By (Insert organisation name or leave blank)

In accordance with the validated process detailed in TF04-6 Issue 8.

After inspection all of the instruments and trails are cleaned and washed in accordance with the process defined in TF04-6 Issue 8.

I declare that I have taken all reasonable steps to ensure the accuracy of the above information

Signature

Date

Print Name

If further information is required on Stanmore Implants devices or instrumentation please contact the Design Office:

**Tel: (+44) 020 8954 1402**

**Fax: (+44) 020 8953 0167**

**E-mail: [designgroup@stryker.com](mailto:designgroup@stryker.com)**