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MAGNEZYX® StarFuse® Gebrauchsanweisung

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Istruzioni per l'uso di MAGNEZYX® StarFuse®
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1. Produktbeschreibung

Die Produktfamilie der Magnesium Arthrodeseninstrumente „MAGNEZYX“ umfasst alle MAGNEZYX-„StarFuse“-Arthrodesen, die metallische Eigenschaften aufweisen, sich im Körper sukzessive vollständig umbauen und durch körpereigenes Gewebe ersetzt wird.

MAGNEZYX-Warenzeichen ist die Bezeichnung für den weltweit ersten bioabsorbierbaren Implantatwerkstoff aus Magnesium (Mg/ZnRE2), aus welchem CE-zertifizierte Implantate für medizinische Anwendungen hergestellt wurden. Das Produkt besteht aus Zink vollständig umbauenden und durch körpereigenes Gewebe ersetzt werden, ist eine Einmal-Entladung grundrätlich nicht notwendig.

2. Warnhinweise (Warnings)

Bei der Verwendung von Fremddimplantaten ist zu beachten, dass Stahl, Titan und Kobalt-Chrom-Legierungen im Operationsrisiko nicht auf Dauer in direktem Kontakt mit einem MAGNEZYX-Implantat stehen dürfen. Eine mechanische Beschädigung des Implantates nur zur Erzielung von Verwundung bestimmt, stellt eine Wiederverwendung des Implantates in einer grob-falschen Verfahren dar. Dies kann zu einem erhöhten Risiko für Infektionen, Frakturen, Dislokationen oder anderen Komplikationen führen. Eine Re-sterilisation hat nicht kalkulierbare Einflüsse auf das Produkt.

3. Unerwünschte Ereignisse (Adverse Reactions)

Die folgenden unerwünschten Ereignisse sind im Zusammenhang mit dem ähnelndem Indikationsbereich und Design identifiziert:

- Implantatversagen durch falsche Implantat-Wahl
- Implantatversagen durch intraoperative Überlastung
- Implantatversagen durch zu frühe Belastung, Überstürzung über Dislokation
- allergische Reaktionen
- biomechanische Funktion aufgrund einer beschleunigten Degradation
- verzögerte Heilung bei vaskulären Störungen
- Pseudarthrosen, Schmerzen und/oder Schmerzen im Operationsgebiet
- Infektion
- Wundheilungsstörungen
- Einstrahlung durch Freizeitaktivitäten
- Leberverschädigung und/oder -nektisierung
- Pseudarthrosen/Non-union/ Ausheilung in Fehllagerung
- symptomatische Inflammation/Kapselbildung
- symptomatische Kapselbildung
- Implantatmigration

4. Dokumentation

Um eine Lückenlose Rückverfolgbarkeit des Implantates zu gewährleisten, muss das in der Verpackung enthaltene Etikett dem Operationsrisiko des Patienten beiliegen werden.

5. Implantation/Entfernung

Muss in speziellen Fällen ein Implantat entfernt werden (z.B. bei Ausbildung einer Pseudarthrose, Implantatversagen, allergische Reaktionen, Infektion, Gelenkverformungen, erneuter Trauma, Refrakur, Infektion), so kann dies mit dem zur Implantation geeigneten Instrumentarium und einer zusätzlichen Lagerung der Instrumente durch ein weites, freigeschnittenes Abbauprozess kann das Implantat mit einem herkömmlichen Bohrer überhört werden. Spezialinstrumenten sind dazu nicht erforderlich.

11. Besondere Anmerkungen

Alle MRT-Untersuchungen mit dem MAGNEZYX-STAR-FUSE-ähnlichen Implantat (MAGNEZYX CS 4.8) resultieren in folgenden Ergebnissen, welche die Anforderungen des Herstellers für die Verwendung des Produktes nicht anpassen/verfälschen. Es sollten bei der Operation nur die von der Herstellerfirma zugelassenen Instrumente verwendet werden.

Nur so ist die Kompatibilität von Instrument und Implantat gewährleistet. Erklärungen zur Reinigung und Sterilisation des Instrumentariums sind der Gebrauchsanweisung zur Handhabung von Instrumenten der Syntellix AG zu entnehmen.

2. Zweckbestimmung (Intended Use)

Die MAGNEZYX STAR-FUSE als bioabsorbierbares intramedulläres Arthrodeseninstrumente, das zur Fusion der Interphalangealgelenke der Kleinfinger. Das Implantat ist zur Einmal-Verwendung bestimmt.

3. Anwendung der Implantate durch den Arzt (Directions for Use)

Der Operateur muss sich vor dem Einsatz der MAGNEZYX® Implantate genau über den möglichen Einsatz und das Produkt sowie die Besonderheiten der Technologie und der Operationstechnik informieren. Die Anwendung durch den Operateur muss eine entsprechende Schulung durch die Syntellix AG autorisierte Fachperson (Ergänzung der Fachliteratur) oder einen entsprechenden Schulung durch die Syntellix AG autorisierten Fachperson (Ergänzung der Fachliteratur) sein.

Die Syntellix AG ist nicht für die Ergebnisse der Indikationstellung und des operativen Vorgehrens sind zu gewährleisten. Die Syntellix AG ist nicht für die Ergebnisse der Indikationstellung, z. B. Schienung und/oder Immobilisierung, unter Berücksichtigung der Frakturstellung und der Compliance des Patienten, ist zu sorgen. Bei dieser Indikation sind die besonderen Anforderungen und Kontraindikationen der unterschiedlichen Dimensionen der MAGNEZYX® StarFuse® können unter anderem unter www.syntellix.com in der aktuellen Version des PDF-Dateis zu finden. Das Produkt ist nicht für den Zweck bestimmt, Frakturen zu reparieren oder zu verhindern.

2. Bedeutung der Symbole

Name der Firma und Anschrift des Herstellers, Firmenlogo

Produkt wird nicht sterilisiert

beliebige Gebrauchsanweisung beachten

Artikel-Nummer sowie der entsprechende Barcode

Stückzahl

Produkt nicht wieder sterilisieren

Chargebezogene Zeichen des entsprechenden Barcodes

Produkt nicht mehr verwenden ab 1/Verfallsdatum

CE-Kennzeichen von und/oder Drogenbesitz

Produkt nicht verwenden bei Beschädigung/Verwundung

vor Feuchtigkeit schützen
vor Sonneneinstrahlung
bedingte MR sicher (MR Conditional)
Gebrauchsanweisung beachten (www.syntellix.com/ifu)

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1. Product description

The „MAGNEZYX“ StarFuse® product family of magnesium arthrodesis implants is manufactured from the magnesium-based alloy MAGNEZYX®, which has metallic properties, gradually transforms within the body and is replaced by human tissue.

MAGNEZYX is a trademark for CE-certified implants manufactured from this fully biodegradable transformation of a magnesium alloy (Mg/ZnRE2) for medical applications. The metallic properties are very similar to those of human bone. Experimental studies also confirm that the use of MAGNEZYX® implants results in complete and permanent fusion.

The use of MAGNEZYX® has the following advantages for patients and users:

- there is complete homogeneous conversion (transformation) of the implant to the patient's endogenous tissue
- this complete transformation of the implant makes subsequent metal removal unnecessary
- the mechanical properties are significantly better than those of conventional resorbable implants
- biological investigations show bone formation at the surface of the implant, as well as bone growth into the implant zones already transformed
- the use of MAGNEZYX® implants does not lead to so-called "stress shielding" (loss of load) due to the mechanical properties of the implant
- these mechanical properties are significantly better than those of conventional resorbable implants
- biological investigations show bone formation at the surface of the implant, as well as bone growth into the implant zones already transformed
- the use of MAGNEZYX® implants does not lead to so-called "stress shielding" (loss of load) due to the mechanical properties of the implant
- biological investigations show bone formation at the surface of the implant, as well as bone growth into the implant zones already transformed

2. Warnings

When using other makes of implants at the same time, it is important to note that steel, titanium and cobalt-chromium alloys in the surgical site must not be in direct contact with a MAGNEZYX® implant for an extended period (physical contact). Since the use of MAGNEZYX® implants does not lead to permanent re-use of MAGNEZYX®, implants constitutes gross negligence. It may lead to increased risk of infection and especially loss of implant stability. Re-sterilisation will have an uncalculable impact on the product.

3. Adverse events

The following adverse events were identified for implants with similar indications and design:

- implant failure due to selection of incorrect implant
- implant failure due to improper use of implant
- implant failure due to premature loading, overloading or dislocation
- allergic reactions
- biomechanical function due to accelerated degradation
- secondary swelling and/or pain in the operated area
- delayed healing of wounds
- osteoporosis
- secondary development of deformity
- infection
- improper use
- shortening and/or misalignment of the toe
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- shortening and/or misalignment of the toe
- biomechanical function due to accelerated degradation
- secondary swelling and/or pain in the operated area
- delayed healing of wounds
- osteoporosis
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