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ENGLISH

IMPORTANT INFORMATION FOR IMPLANTS FROM THE SYNTROPIQ INTERNAL STABILIZATION SYSTEM

The Dynam'X System implants are devices whose primary functions are to add a solid structure to a graft so as to ensure the stabilization of intervertebral height, after discectomy, or to stabilize the spine in cases of spondylolisthesis or fusion of various models and sizes of implants are available in order to adopt to the surgical approach, operating level(s) and to the pathology of each individual patient anatomy. For bone fusion purposes, the Dynam'X System Cage should be filled with bone graft.

INTENDED USE AND PATIENTS POPULATIONS

Dynam'X System is indicated for intervertebral body fusion procedures in skeletally mature patients who have had six months of non-operative therapy. Final decision of the application and setting of the implants will always be made by experienced surgeons with extensive knowledge about spinal surgery. The intended use is to recreate the intervertebral disc space and stabilize the spine during the process during the healing process and support fusion process. The Dynam'X Cages are complementary implants to posterior or anterior or lateral fixation systems and should NOT be used as stand-alone.

DESCRIPTION

The Dynam'X System is designed for spinal arthrodesis. It consists of cages in variable sizes and shapes. The main design of the whole family based on the same concept:

- titanium solid frame which holds and transfers all forces generated during surgery and patient activities.
- multifunctional titanium cage for direct contact between implant and vertebral endplates to involve biomechanics of bone fusion based on Wolf's principle.

System recognizes following modes of interbody device with intended application approach and spine levels:

1. Model Aries and related instruments set for distraction, discectomy, sizing, graft packing and insertion of the Aries device during Anterior Cervical Discectomy and Fusion procedure (ACDF), in following versions: 10 Flat, 11 Anatomic, 22 Flat, 23 Anatomic, 24 Hollowed, 30 Flat Trabecular, 31 Anatomic Trabecular.
2. Model Perseus and related instruments set for distraction, discectomy, sizing, graft packing and insertion of the Perseus device during Posterior Lumbar Interbody Fusion procedure (PLIF), in following versions: 20 Anatomic, 24 Hollowed, 40 Trabecular.
3. Model Taurus and related instruments set for distraction, discectomy, sizing, graft packing and insertion of the Taurus device during Anterior Lumbar Interbody Fusion procedure (ALIF), in following versions: 21 Anatomic, 24 Hollowed, 40 Trabecular.
4. Model Ursus and related instruments set for distraction, discectomy, sizing, graft packing and insertion of the Ursus device during Unilateral Lumbar Interbody Fusion procedure (ULIF), in following versions: 22 Anatomic, 26 Hollowed, 42 Trabecular.

Model selection depends on physician decision about the way how to approach the treatment of the spinal disorder. The components of the system may be vary according to surgical conditions and physician decisions. Products Brochures and Surgical Techniques should be read and understood before selecting suitable implants (including correct size and model), and its accessories.

Dynam'X System components must NOT be used with direct contact to any other spinal systems or any other fixation systems. DO NOT never mix titanium implant and stainless steel implants. All components of the Dynam'X System and components from Dynam'X System together with any other systems or other manufacturers releases Syntropic for any liabilities. All components of Dynam'X System should be never reused under any circumstances.

MATERIALS

The entire system is made out of medical grade titanium or stainless steel. Ti-6Al-4V ELI described by ISO 5832-3 or ASTM F3001-14 or ASTM F136-13 standards. Syntropic sorely warrants that all devices are manufacture from one of the following materials: Titanium. No other warranties, express or implied, are made. Please see the Syntropic product brochure for further information.

INDICATIONS

Dynam'X System is intended for intervertebral body fusion in cervical, thoracic and lumbar spine for the following indications:

- 1. Degenerative disc disease.
- 2. Spinal stenosis.
- 3. Spondylolisthesis.
- 4. Revision surgery for failed disc surgery or progressive degenerative discopathies.
- 5. Spinal disc or nerve compression.
- 6. Pseudarthrosis.
- 7. Instability of motion segments.

CONTRAINDICATIONS

Contraindications include, but are not limited to:

1. Risk of infection or infection in progress, or fever or elevation of temperature.
2. Obesity.
3. Pregnancy.
4. Mental illness.
5. Allergy on any chemical components (especially aluminum, titanium, vanadium).
6. Any anatomical, medical or surgical conditions which make the use of implants or potential benefits of spinal implants impossible.
7. Bone joints or ligaments conditions such but not limited as: osteopenia, bone absorption, osteomalacia. Osteoporosis and other bone pathologies and indications must be carefully evaluated prior surgery.
8. Implants size, shape or anchorage functionality might be not enough to achieve expected clinical results.
9. Mixing of implants with other manufacturers or with other components.
10. Potential risk of unexpected patient anatomy destruction, interference with neurological, functional or other deficits.
11. Any risk of patient's unwillingness to follow postoperative instructions.
12. Any other not described in indications.

POTENTIAL ADVERSE EVENTS

Possible adverse events which might occur after spinal surgery with or without instrumentation include, but are not limited to:

1. Disassembly, bending, and/or breakage of any or all of the system components.
2. Migration of and system components.
3. Pressure on the skin from component parts in patients with inadequate tissue coverage.
4. Tissue or nerve damage caused by improper positioning and placement of implants or instruments.
5. Dura leakage, distortion or damage.
6. Nerve damage or palsy due to neurological dysfunction like paresisesthesia, radiculopathy, paralysis, hyperesthesia, or any others related to general surgery associated to anaesthesia.
7. Infection.
8. Loss of functionaries.
9. Permanent or temporary or developing sexual dysfunctions.
10. Postoperative change of body curvature, change of physiological range of movement.
11. Pseudarthrosis or non-fusion or delayed fusion.
12. Bone loss, overgrowth, or any other bone malformations.
13. Permanent or temporary limitation or inability to perform daily activities.
14. Changing in mental behaviour.
15. Permanent or temporary or developing respiratory problems.
16. Permanent or temporary or developing cardiovascular deteriorations or dysfunctions.
17. Death.

In some cases additional surgery or surgeries might be necessary to correct or change potential adverse events.

WARNINGS

A Do not use when sterility expired.
A Do not use if packaging is damaged.

TOOLS REPROCESSING

All originally delivered Syntropic instruments should be used during implantation. Any instrument or part of the system that has been sterilized or re-sterilized as described in Syntropic Tools Instruction for Use or must be cleaned using established hospital methods before sterilization and introduction into a sterile surgical field.

PACKAGING

Dynam'X System is delivered as sterile. Each of the implant's components should be stored in original packages. All products should be used in their original packages. Any products used should be treated as a single unit. Any components or instruments that have been sterilized or re-sterilized should be used in their original packages. Any components or instruments that have been sterilized or re-sterilized should be used in their original packages and prevent to any damages. When storing please keep the following parameters: relative humidity between 20% and 50%, temperature between 10°C and 35°C.

DEVICE REMOVAL AND DISPOSAL

The implants from Dynam'X System are intended to remain in the patient's spine for life. Any decision to surgically remove the device should take into consideration such as the risk to the patient of the additional surgical procedure as well as the difficulty of removal. However, the removal of the device can be performed in accordance with local hospital's requirements and protocols.

STORAGE

The components of Dynam'X System should be completely dry before storing and must be handled with care to prevent damage. Store in designated trays and in areas which provide protection from dust, insects, chemical vapors and extreme changes in temperature and humidity.

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DISINFECTION

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IMPLANT REMOVAL PROCEDURE

Implant's removal procedure can be performed either by the Implant Holder (interior) or universal Implant Removal Tool (exterior). Attention to the implant, Universal Implants Removal Tool is applied upon special request. Please contact Syntropic Customer Service prior to surgery. Before to avoid touching the implant for a better grip or socket stability it might be used in conjunction with the Implant or Removal Tool for removal of the implant if desired. To use, apply an upward force to the implant until it is removed from the intervertebral disc space.

An osteotome can be used at the interface between the Implant and endplates to disengage the construct. Use of distraction is suggested to allow easier access to the implant/ endplate interface.

IMPORTANT

A As with all orthopaedic implants, the Dynam'X System components must be never reprocessed nor reused under any circumstances.

WARRANTY AND PRODUCT COMPLAINTS

Every spinal product from Syntropic is guaranteed to be free of defects in workmanship and materials when used properly for its intended purpose. Any implant or instrument delivered from Syntropic is covered by a one year warranty period or repaired, at Syntropic discretion, with no charge.

The Dynam'X System components must be used as supplemental fixation. Close attention should be given to the position of the anchoring plates, in order to limit risk of contact between the anchoring plates and additional spinal hardware (e.g., pedicle screws).

As a technical demanding procedure presenting a risk of serious injury to the patient, the implantation of Dynam'X System should be performed only by experienced spine surgeons with specific training in the use of this system and who have thorough understanding of the procedure. Before clinical use, the surgeon should thoroughly understand all aspects of the surgical procedure and limitations of the system. This device is recommended only use by surgeons familiar with the spine and surgical techniques and potential risks associated with spinal surgery. Knowledge of surgical techniques, proper implant selection and placement, proper pre- and post-operative patient management are mandatory to achieve a successful surgical outcome.

The spinal fixation system and/or its bone grafting system should be considered as sole spinal support. No implants can withstand body loads without bone support. Therefore bends, breakages, loosening, disassembly may occur over time. A successful results are not always guaranteed. The surgeon should be aware of the potential risks and benefits of the system.

Precautions: The Dynam'X Cages are complementary implants to posterior or anterior or lateral fixation systems and should NOT be used as stand-alone. The applications of pedicle screw plates, rods and/or interbody cages should be performed by experienced surgeons with specific training in use of Dynam'X System.

As the Dynam'X System may be used as supplemental fixation, close attention should be given to the position of the anchoring plates, in order to limit risk of contact between the anchoring plates and additional spinal hardware (e.g., pedicle screws).

The effectiveness and safety of interbody fixation is only applicable for certain conditions with specific instability or need to support the fusion supported by medical device. The device might be supportive for such mechanical instability if deformity, fracture, lysis, dislocation or pseudarthrosis. The surgeon should be aware of any other conditions are unknown.

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3. Der Patient muss vor dieser Möglichkeit gewarnt und angewiesen werden, physische Aktivitäten, besonders Hebe- und Drehbewegungen, einzuschränken und an keinerlei sportlichen Aktivitäten zu verzichten.

4. Als Vorsichtsmassnahmen sollten präoperative Anamnese und Untersuchung gezielt werden, wenn Patienten mit Immobilität sich weiterhin aufstationieren unterziehen (z. B. Zahnoperationen). Dies gilt besonders für Hochrisikopatienten.

5. Implantate Produkte müssen behutsam behandelt werden, dass eine Wundheilung bei anderen Operationen nicht möglich ist. Wie alle orthopädischen Implantate ist es schwierig, nach einer Entfernung wieder einzuführen. Auch die Komponenten des DynaX® Systems müssen unter keinen Umständen wieder verwendet werden.

VERPACKUNG

Das DynaX® System wird steril geliefert. Alle Komponenten des Implantats müssen in ihren Originalverpackungen aufbewahrt werden. Alle Produkte müssen sorgsam behandelt werden, um eine ungewollte Verwendung oder Handhabung kann zur Beschädigung oder/oder möglichen Fehlfunktionen des Produkts führen.

Vor dem Einsatz müssen die Sterilität und das Verfallsdatum geprüft werden.

WARNHINWEISE

Nicht verwenden, wenn die Sterilität abgelöst ist.
Nicht verwenden, wenn die Verpackung beschädigt ist.

AUFBERIEITUNG DER INSTRUMENTE

Wird der Konservierung der Instrumente nur die mitgelieferten Syntropi®-Originalinstrumente verwendet werden. Vor jedem chirurgischen Eingriff sind alle Instrumente den in der Gebrauchsanweisung für Syntropi®-Instrumente beschriebenen Reinigungs- und Desinfektionsmethoden vor der Sterilisation und Einführung in ein steriles Operationsfeld nach etablierten Krankenhausverfahren zu reinigen.

LAGERUNG
Die Komponenten des DynaX® Systems müssen vor der Lagerung vorsichtig trocken und sauber gehalten werden, um eine Beschädigung zu verhindern. In gekennzeichneten Fächern lagern und in Bereichen, die Schutz vor Staub, Insekten, chemischen Dämpfern und extremen Änderungen der Temperatur bieten.

Stabile Temperaturen in der Originalverpackung gelagert und vor Beschädigung geschützt werden. Bitte halten Sie bei der Lagerung folgende Parameter an: relative Luftfeuchtigkeit zwischen 20% und 50%, Temperatur zwischen 10°C und 35°C.

ENTFERNUNG UND ENTGONDUNG DES PRODUKTS

Die Implantate des DynaX® Systems sind direkt ausgetauscht, im Körper des Patienten zu bleiben. Wenn ein Chirurg entscheidet, das Produkt zu entfernen, um einen Faktoren wie das Reise- oder Arbeitsrisiko zu berücksichtigen, kann er die Schwierigkeit der Entfernung in Betracht gezogen werden. Wenn es jedoch medizinische oder nicht medizinische Gründe für die Entfernung des Produkts gibt, muss es entsprechend den Anforderungen und Richtlinien des Krankenhauses entsorgt werden.

Die Entfernung des Implantates kann entweder mit dem Implantatherapie (Endoskopie) oder einem Universalinstrument mit einem speziellen Instrumentarium oder einer Sonde zum Implantat durchgeführt werden. Das Universalinstrument zur Implantatentfernung ist eine spezielle Anfrage an den Hersteller oder die Syntropi®-Sparte. Bitte informieren Sie den Kundenberater von Syntropi®. Achten Sie darauf, dass das Implantat nicht nach vorne zu schieben. Zum Entfernen des Implantats kann auf Wunsch ein Schlag- oder Schlitzausschneider in Verbindung mit einem speziellen Entfernungsinstrument verwendet werden. Wenden Sie eine oben genannte Kraft auf den Schlaghammer an. Wenn der Schlaghammer fehlt, kann das Implantat aus dem Bandscheibenkanal entfernt werden.

Zwischen Implantat und Endplatten kann ein Osteotom zum Lösen der Konstruktion verwendet werden. Um einen leichten Zugang zur Schnittstelle Implantat/Endplatte zu ermöglichen, wird Distraction empfohlen.

WICHTIG

Wie alle orthopädischen Implantate dürfen auch die Komponenten des DynaX® Systems niemals und unter keinen Umständen wiederaufbereitet oder wieder verwendet werden.

GARANTIE UND REKLAMATIONEN

Für alle Wirbelbauteile produzierte garantiert Syntropi die Freiheit von Verarbeitungs- und Materialfehlern, sofern sie ordnungsgemäß und sachgemäß verwendet werden.

Implantate oder Instrumente, die von Syntropi geliefert werden und sich als defekt erweisen, werden nach den Erregmessen von Syntropi®-Sparten ersetzt oder repariert.

Kundenberater, die Befürchtungen oder Bedenken oder mit Qualität, Hartbarkeit oder Zuverlässigkeit des Produkts unzufrieden sind, sollten sich an Syntropi® oder den Händler wenden. Sie befinden Reklamationen an die Abteilung der Neuen (der Kundenberater), den Geschäftsführer des Unternehmens (der Kundenberater), Ihnen Namen und Ihre Adresse sowie den Grund der Reklamation an. Schicken Sie den Bericht direkt an Syntropi oder den Händler.

VERWENDETE SYMBOLE



KUNDENSERVICE

Zusätzliche Informationen über das DynaX® System oder andere Systeme erhalten Sie bei Syntropi. Sie können auch Ihren Handelsvertreter von Syntropi vor Ort kontaktieren.

ITALIANO

INFORMAZIONI IMPORTANTI SUGLI IMPLANTI DEL SISTEMA DI STABILIZZAZIONE INTERNA DELLA SOCIETÀ SYNTROPI

Gli impianti del sistema DynaX® sono dispositivi la cui funzione primaria è di fornire una struttura stabile al paziente, permettendo una completa e sicura funzione del sistema. Per questo motivo, non devono essere usati per le vertebre dopo una discectomia, durante il periodo di "accomodamento" dell'intervertebrale, e la creazione della superficie massima di lettura per i sensori di posizionamento. I dispositivi disponibili sono progettati per l'operazione aperta, al livello / livelli dell'operazione, agli aspetti patologici e alle caratteristiche anatomiche individuali del paziente. La gabbia del sistema DynaX® deve rispettare con l'Innesto osseo per favorire la crescita delle ossa.

SCOPO D'USO E GRUPPI DI PAZIENTI

Il sistema DynaX® è indicato per l'esecuzione della fusione intervertebrale in pazienti con scheletro formato, che hanno completato sei mesi di trattamento non chirurgico. La decisione principale di utilizzo del sistema DynaX® deve essere sempre presa da un chirurgo esperto con una vasta conoscenza della chirurgia spinale. La destinazione e la durata dell'operazione sono determinate dalla fusione o dalla fornitura di struttura statica in caso di durata del processo di guarigione e favorire il processo di fusione. La gabbia DynaX® sono impianti aggiuntivi del sistema di fissaggio posteriore o anteriore o laterale che NON VANNO usate da sole.

DESCRIZIONE

Il sistema spinale DynaX® è progettato per l'artrodnesi vertebrare. È costituito da gabbie di varie dimensioni e forme. La struttura principale di molti di questi prodotti si basa sullo stesso concetto:

• telioli solida in titanio che contiene e trasmette tutte le forze che si generano nella colonna vertebrale del paziente durante le sue attività.

• reticolato in titanio che offre un contatto diretto tra la gabbia e i discetti vertebrali finali secondo la biomeccanica della fusione ossea in base alla legge di Wolf.

Il sistema è composto dai seguenti modelli di dispositivi intervertebrali con i relativi approvi di applicazione e livelli della colonna vertebrale:

1. Il modello Aries e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Aries è disponibile nelle seguenti versioni: 10 piatti, 11 anatomici, 12 caovo piano, 13 caovo arco, 20 anatomici, 24, 30 trabecolare.

2. Il modello Persus e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Persus è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

3. Il modello Taurus e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Taurus è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

4. Il modello Andromeda e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Andromeda durante la fusione lombare intervertebrale anteriore (ALIF) sono disponibili nelle seguenti versioni: 23 anatomici, 27 caovo, 43 trabecolare.

5. Il modello Ursus e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Ursus durante la fusione lombare intervertebrale posteriore (PLIF) sono disponibili nelle seguenti versioni: 22 anatomici, 26 caovo, 42 trabecolare.

6. Il modello Synapti® e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Synapti® è disponibile nelle seguenti versioni: 20 anatomici, 24, 30 trabecolare.

7. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

8. Il modello Proximus e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Proximus è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

9. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

10. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

11. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

12. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

13. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimensionamento, compressione degli innesti e inserimento del dispositivo. Cervix è disponibile nelle seguenti versioni: 21 anatomici, 26 caovo, 41 trabecolare.

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42. Il modello Cervix e i relativi strumenti progettati per distrazioni, discectomie, dimension