Care/Maintenance

maintenance, particular attention must be the device was purchased, against defects in - an original and dated proof of purchase of given to the knee hinges wear pattern. If the healthcare professional notices any kind of early wear on the hinges, he must notify Thuasne and provide all required information (pictures etc.) to evaluate whether or not a repair is required. Hinges:

The hinges on the brace are pre-lubricated in the factory

If sand, dirt or water gets inside the hinges, they may require lubricating again. If you notice the hinges not gliding smoothly,

a few drops of a synthetic lubricant can be applied. Wipe off any excess lubricant before wearing

the brace to prevent stains on clothing

Storage

Store at room temperature, preferably in the original packaging.

Disposal

Dispose of in accordance with local

regulations. Keep this instruction leaflet

COMMERCIAL WARRANTY AGREEMENT fall into one of the cases of exclusion of the Maintenance of the device must be AND WARRANTY LIMITATIONS scheduled every 6 months and be performed Thuasne offers a free, limited commercial To benefit from the warranty, the buyer must by a healthcare professional. During this warranty to the user, in the territory where mandatorily provide:

> manufacturing and workmanship for a period of: - six months for the textile components; - two years for the rigid components.

The limited warranty is effective from the date of purchase of the product by the end-user.

workmanship in case of:

mentioned in the instructions for use,

or kneeling, damages occurred as part of attempts to the product. modify the product.

Any claim for this commercial warranty must be sent by the user or its legal representative (parents, guardian...) to the entity where the product was purchased, which will forward this claim to the corresponding Thuasne entity.

Any warranty claim will first be reviewed by Thuasne to determine if the conditions of the limited warranty are fulfilled and do not commercial warranty.

the product: - an original and dated proof that the

scheduled maintenance was performed every 6 months.

If the conditions of the limited warranty are The limited commercial warranty does not fulfilled and the claim is made by the user or apply to any defects in manufacturing and its legal representative (parents, guardian...) within the warranty delays indicated above, misuse of the product or any damage the buyer will get a new substitution product. occurred by a usage outside the normal It is expressly agreed that this commercial and intended use of the product as warranty is in addition to the legal warranties binding the entity which sold the product to damages occurred while user is squatting the user, in accordance with the applicable local legislation in the country of purchase of



SpryStep[®] Knee

INSTRUCTIONS FOR USE CUSTOM RIGID KNEE BRACE

Custom-made device. Custom fabricated orthosis, made from a positive model of the patient's limb.



Stabilisation correction Motion control

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Deutschland



Description/Destination

The device is intended only for the treatment of the indications listed

This device is a rigid knee brace (KO) that supports and/or stabilizes the knee while walking

Available in 3 versions: Sprystep[®] Ligament Knee, Sprystep® OA Knee, Sprystep® Neuro Knee. A kit with 2 addtional condylar pads, extension

limitations 4 (except for Neuro version) is included in the brace's box

Composition

Rigid components: carbon fibre - high density polyethylene - stainless steel - aluminium polyoxymethylene - vinyl - polypropylene polyamide - epoxy resin - brass - acetal natural latex (in extension assist option only). Textile components: polyamide - elastane polyurethane - ethylene vinyl acetate silicone - polvethylene.

Properties/Mode of action

The knee brace is composed of two parts (rigid and soft) already assembled. The rigid part, made of composite materials and polyamide, is positioned around the knee

to provide stabilisation and/or biomechanical correction. Indications

These indications are biomechanical deficits of neurological, traumatic, muscular or degenerative origin Conservative treatment of knee ligament injuries and/or ruptures (cruciate and/or lateral

ligaments) Joint instability/laxity (including for knee

osteoarthritis). Specific to offloading knee braces (OA

version) Symptomatic unicompartimental femorotibial osteoarthritis (moderate to severe). Knee off-loading for post-traumatic, postoperative or degenerative conditions. Alternative to osteotomy or leg misalignment surgerv

2302056 notice Custom SprvStep KO EN 2043901 ®.indd 2

Post-operative immobilisation or/and

rehabilitation Post-traumatic immobilisation. Weakness of the knee flexor muscles ≤ 3. Knee instability during stance phase. Quadricens weakness Knee hyperextension

Contraindications

Do not use the product if the diagnosis has not been confirmed Do not apply the product in direct contact with

broken skin

Do not use in the event of known allergy to any of the components.

Do not use for patients weighing > 180 kg Undesirable side-effect (400 lbs)

Open ulcers of the foot, ankle or lower leg. Severe loss of sensation in the lower limb.

Precautions

Verify the product's integrity before every use. Do not use the product if it is damaged. The initial fitting and adjustment must be done by a healthcare professional. Strictly comply with your healthcare professional's prescription and recommendations for use. Check the condition of the affected limb and the state of the skin daily (with particular the fitting of the product and the specific attention for patients with sensory deficit). In the event of discomfort, significant hindrance, pain, variation in limb volume, abnormal sensations or change in colour of the extremities, remove the device and consult a healthcare professional.

For hygiene, security and performance reasons do not re-use the product for another patient. Do not use the device in case of application of certain products on the skin (creams, ointments, oils, gels, patches...).

Do not wear the product in a medical imaging machine.

The ability to drive a vehicle with the device must be assessed by a healthcare professional and according to local regulations.

Specific to locking joint knee braces (Neuro It is recommended to adequately tighten the device to achieve a good fit on the limb without restricting blood circulation.

> Do not expose the product to extreme temperatures.

In the event of any modification in the product's performance, remove it and consult a healthcare professional Before any sports activity, check the

compatibility of the use of this medical device with your healthcare professional. In pediatric applications:

It is recommended that an adult supervises the application and use of the product by a child. Could contain natural latex with the option extension assist.

This device can cause skin reactions (redness, itching, burns, blisters, etc.) or wounds of various degrees of severity. Possible risk of venous thrombosis

Any serious incidents occurring related to the device should be reported to the manufacturer and to the competent authority of the Member State in which the user and/or patient is resident

Instructions for use/Application

Preparation of the orthosis performed by the healthcare professional: The healthcare professional must supervise

walking conditions of the patient when using the device for the first time. It is recommended to wear the device directly

on the skin, unless contraindicated. Please read these instructions with the patient

when fitting the brace for the first time and make sure that he/she understands how to position the knee brace. . How to fit the knee brace

Loosen all the straps of the knee brace, and to ease application, fold the self-fastening

strans back Have the patient sit on the edge of a chair and have the patient bend his/her knee to a position of approximately 30-60° of flexion

Place the knee brace on the bare led

Fitting the orthosis

posterior to midline (2nd third of the leg in the sagittal plane). NOTE: It is always better to put your brace on a little too high than too low

Secure the straps ①: Feed the strap(s

through the corresponding buckles 0034 Strap chafes can be angled to ensure the straps fit flat against the back side of the leg.

If one or more of the knee brace straps is too long, each strap can be cut to the desired lenath To do this, remove the self-fastening hook tab If the device provided has flexion/extension from the end of the strap, cut the strap to the limitations:

desired length, and reattach the self-fastening hook tab to the end of the strap. 3 Take care to not cut any strap too short The comfort pads fixed inside the straps may

need to be removed for this operation and repositioned after the strap is cut to avoid any interference when the strap is tightened.

If the device provided has a Loadshifter Mechanism 3:

Check the fit, suspension and pain level prior to adjusting the corrective force. Confirm the Loadshifter Mechanism above 90° and 110°. each knee joint are in the factory-set neutral position (same height on both sides of the

thigh shell) Ask the patient to stand and walk, taking normal steps and looking straight ahead. Confirm the brace fits and suspends properly on the leq.

Adjusting the corrective force:

The dual Loadshifter Mechanism
enables you to change the angle of the femoral shell of the brace to increase the corrective 3-point force and offload the compromised (degenerated, compressed) medial or lateral compartment of the knee.

Both uprights are set during fabrication in a neutral position at mid-height. The best way to adjust the correction is to increase the length of the upright on the affected side. This produces more leverage

force. If the patient is short, you can also increase correction by shortening the length of the upright on the upaffected side For severe OA and/or severe varus or valgus deformities, you may need to adjust both

upriahts. To adjust the Loadshifter Mechanism 3 unlock the screw located on the upright above the hinge, on the side requiring adjustment, lengthen or shorten the upright and tighter the screw.

Case of Medial Compartment Femoro-Tibial Osteoarthritis of the Knee A thicker condylar pad should be positioned

on the external/lateral hinge (on the side opposite the affected compartment) To increase corrective force, the internal

medial upright (affected side) can be lengthened compared with the external/ lateral upright, or the external/lateral upright

can be shortened compared to the internal/ medial upright. Case of Lateral Compartment Femoro-Tibial Osteoarthritis of the Knee

The thicker condular pad should be positioned

opposite the affected compartment) Evaluation of pain after adjusting the corrective force

After adjusting the offloading of the brace: - Ask the patient to walk again and assess his/her pain level.

Repeat the operation, increasing or reducing the correction until the proper amount of offloading is achieved for the

natient If the patient feels any discomfort reduce the angle of the thigh shell which will

reduce the corrective force For conservative treatment, start with a small The system will lock once the patient returns to

amount of correction and let the patient wear

The hinges and uprights should be aligned necessary to increase the correction, see the with the midline of the sides of the leg, or just patient again.

A bag containing an additional set of condylar pads is provided in the box with the brace. If necessary, use the set of thicker pads to When the patient straightens the leg, the locks automatically re-engage increase the compression on the sides of the Ensure comfort of lea with no impingements knee prior to use.

Lines and numbers are printed on the uprights of the knee brace. There is no correlation between these graduations and specific degrees of correction. You can record in the patient's chart the initial setting of the Loadshifter

The brace's default extension setting is 0°. To change this setting, please follow the following instructions, to be repeated with the same limitation on both hinges.

The extension and flexion limitations are and hinges caps (Ligament and OA versions situated on plastic pieces contained in the only). box 0 0

Extension can be limited to 0°, 5°, 10°, 15°, 20° self-fastening tabs (if damaged) sticked on and 30° Clean the area where the self-fastening tabs

Flexion can be limited to 0°, 30°, 45°, 60°, 75°, Adjusting the extension limitation:

Choose the desired extension limitation on

the corresponding plastic piece . ④

2. Remove the screw located on the side of each hinge. 3. Flex the hinge slightly and remove

the existing extension limitation. Take care to note the direction this limitation is facing.

4. Insert the desired limitations, hole end one and fix it thanks to the 3 screws first, with the hook end at the top and Alterations that can be done to the brace facing forward. Straighten the hinge to during fitting full extension to confirm the extension · Femoral shell: if needed a portion of the limitations are correctly positioned. The small hole in each limitation must be aligned and visible through the screw hole so the screw will thread into the limitation Reinsert and tighten the screw.

Do a few flexions/extensions to make sure that the limitation is properly locked at the desired angle

Adjusting the flexion limitation:

Choose the desired flexion limitation on the corresponding metallic piece.

- 2. Remove the two screws from the posterior aspect of each hinge cover and take out
- the spacer that was installed at the factory. 3. Insert the limitation with the flat end facing up and position it so that both holes in the limitation are visible through the screw

holes in the cap.

4 Thread and tighten the screws through the

cap and into both holes in the limitation. Do a few flexions/extensions to make sure that the limitation is properly locked at the desired angle

Warning

is exposed to seawater or chlorinated water. The adjustment of the flexion/extension must be decided and performed by the healthcare professional, not by the patient Both hinges MUST be adjusted to the same

on the internal/medial hinge (on the side angle. There can be damage to the hinges, and compromises (including injury) to the patient, if the settings are not the same on both hinges. If the device provided has a locking joint Twist Q:

To achieve continuous free motion, twist the lever clockwise until it clicks (the lever should not return to a neutral position). This allows patients to ambulate without having the joints fixated at extension To disengage the free motion override, push

the center button on the twist release until the fastening tab adheres to a section of the strap lever returns to a neutral position

terminal extension

the knee brace for one or two weeks. If it is If the device provided has a locking joint Trigger 🕖:

. It may take several weeks to feel comfortable

Thuasne cannot be held responsible for

undesirable effects or injuries resulting from

Depending on country of sale, additional

Fitting the spare parts (by a healthcare

The spare parts kit contains the following

components: foam pads, straps with self-

fastenings tabs, adhesive self-fastening tabs

Remove the textile parts and the adhesive

Replace the self-fastening tabs by new ones

To replace the straps, open the self-fastening

tabs fixed on the structure, remove the straps

If needed, shorten the strap(s): remove the

self-fastening tab, trim the strap(s) and replace

To replace the hinge cap, remove the 3 screws

on the cap, remove the cap, position the new

thigh shell can be removed to improve

Do not remove material within 2 cm of the

Make sure the surface of the shell is

sufficient to support the force pattern of

the brace and contain soft tissue without

Tibial shell: some minimal trimming of the

Do not remove material within 2 cm of the

The following actions would waive the

Over trimming of the femoral or tibial shell

Any attempt to heat-mold the composites.

Product can be washed in accordance with

the instructions shown on this leaflet and on

the label. If the device comes into contact

with water, dry the textile part and wipe the

rigid part well with a dry cloth. If the device

Rigid components: wash the rigid part with a

Textile components: the soft part can be fully

removed for washing. Replace in the original

location before next use Hand wash Remove

the self-fastening tabs before washing. Do not

use detergents, fabric softeners or aggressive

products (products containing chlorine) Do

not dry clean. Do not tumble-dry. Do not

iron. Squeeze out excess water. Dry flat. Dry

sun, etc.). After prolonged use, if the fibers on

your strap do not adhere as well to the self-

fastening tab, cut the strap shorter so the self-

that has fresher fibers. If this is not possible,

you should contact the medical provider who

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away from any direct heat source (radiator.

make sure to rinse it in clear water and dry it.

patient comfort or ease of use.

shell can be done (max, 2 cm)

knee joint insert.

knee joint insert.

Care/Maintenance

discomfort

warranty.

Cleaning

moist cloth.

fit your brace

materials

and then position the new foam pad.

and position the news ones.

any unsupervised or inadapted adjustments.

accessories/spare parts could be available.

with the brace on your leg.

professional or by the patient).

the rigid part.

were applied.

the tab.

To release the locking mechanism to allow to bend the knee, press UP on the Trigger at the top of both hindes