



ThoraXsafe®

HSO®
HOSPITAL SUPPLY ORGANISATION



STABILITY IN EVERY POSITION

Developed
together with
intensive care
physicians, de-
escalation experts &
physiotherapists!

Usage recommendations

ThoraXsafe® is a non-reusable, single-patient product. Recycling is not recommended as the material of the restraining belt may become deformed through washing and proper functioning can no longer be guaranteed.

The ThoraXsafe® set consists of four parts:

- two Velcro straps for fastening to beds, edge-of-bed sitting aids, patient transfer chairs, wheelchairs, etc.
- one restraining belt for upper body stabilisation
- one safety tie with a metal grommet for reinforcement

WHAT & WHY

FACTS AND BENEFITS

Certified thorax belt instead of makeshift solution

Mobility-impaired patients, patients with uncontrolled movements and physically weak patients present a daily challenge for nursing staff and physiotherapists. The requirements for **patient protection, stabilisation and restraint** are often quite similar. Makeshift solutions may deliver the desired results, but they can be complicated and time-intensive. And the nursing staff operates in a legal grey area.

HSO Solutions worked together with de-escalation experts, intensive care physicians and physiotherapists to develop ThoraXsafe®, a **multifunctional, certified thorax belt** that fills this gap and is also suited for use in torso stabilisation. As a **supplement to the classic four-point restraint**, ThoraXsafe® helps stabilise your patient's upper body. The straps are padded and do not put any pressure on the chest or abdominal area. This makes the system suitable not only for the purpose of **immobilisation and restraint**, but also to **stabilise patients after surgery or in nursing environments**.



Benefits for medical staff

- quick and easy to apply (max. 2 persons needed)
- higher level of safety against uncontrolled patient movements while applying the belt, as the user stands behind the patient
- flexible, non-twisting strap system
- for universal use with all beds and chairs
- Velcro fastening system makes it possible to quickly apply and open the straps
- impossible for patients to sit up or slide down
- various stabilisation possibilities

Benefits for patients

- soft microfibres prevent straps from cutting into the patient
- reduced pressure on the body
- prevents patient from sliding away while sitting or lying down
- lower risk of injury



The right amount of pressure thanks to a flexible Velcro system

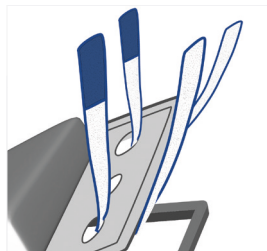
Do you treat and care for **intensive-care patients**, have to protect a patient from injury during an episode of delirium or brief reactive psychosis, or work in a **psychiatric ward**? The quick and easy stabilisation and **patient-friendly restraint** can protect you and your patient.

The thorax belt is guided beneath the underarms and stabilises your patient by overlapping in the area behind the neck. This method, in combination with the soft microfibre material, makes possible its **application immediately after surgery**. Thanks to the flexible and stable Velcro straps, the belt can also be used **for de-escalation** purposes in various nursing and medical scenarios. It can be fastened to all usual intensive care and nursing beds.

ThoraXsafe® should only be used under supervision. The belt system serves as a **supplement to the four-point restraint** and for fall prevention.

ThoraXsafe® can be used as a thorax belt on patients in intensive care beds.

How to use ThoraXsafe® as a thorax belt in a lying position



1

Fasten both Velcro straps underneath the mattress at the right and left side of the bed at the head end

TIP

Before beginning, turn the head portion of the bed to an app. 45° angle | Raise the bed rail. | The side with the blue Velcro faces away from the user when fastening | Always attach the Velcro straps to the moveable head portion of the bed, not to the rigid bed frame.

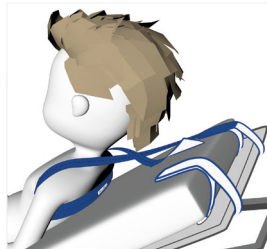


2

Position restraining belt beneath shoulder blades, guide belt through underarms & up over the shoulders

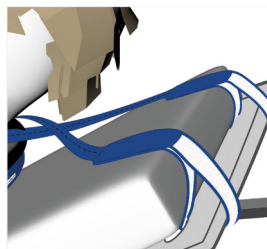
TIP

The longitudinal seam and the label must face away from the patient's body.



3

Cross the ends of the restraining belt behind the neck of the patient

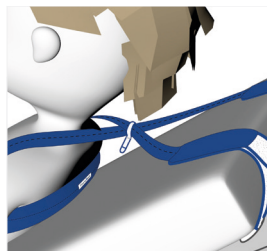


4

Pull the ends to achieve the desired length and attach to the Velcro straps

TIP

Use as much of the Velcro surface as possible to achieve the best hold



5

Fasten the safety tie at the point where the belt overlaps

TIP

For more comfort, place a pillow at the crossing point



Fall prevention and stability for nursing care and physiotherapy

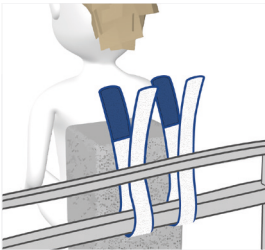
Do you face the challenge of stabilising **patients sitting at the edge of their bed in nursing scenarios or during physiotherapy treatments**? ThoraXsafe® stabilises your patient's upper body and can be used as a **lap belt** for **fall prevention**. The easy-to-use lap belt prevents the patient from sliding down or falling over forwards and eliminates the need for a difficult-to-apply pelvic harness.

The **simultaneous** use of two ThoraXsafe® sets **for upper body restraint and as a lap belt** is possible and recommended for fall prevention. The way to apply the lap belt in an edge-of-bed sitting position corresponds to the mobilisation of patients in a wheelchair.

The only difference is that you should fasten the Velcro straps to the side rail, directly on the sitting aid, or on another suitable stable place. The sitting aid must be firmly fixed to the bed! In the edge-of-bed position, the patient can open the belt system independently and so must be supervised at all times.

ThoraXsafe® can be used as a thorax belt or lap belt on patients sitting at the edge of the bed.

How to use ThoraXsafe® as a thorax belt in an edge-of-bed sitting position

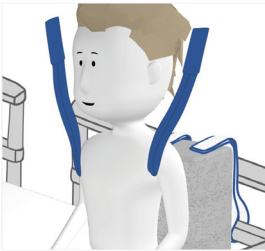


1

Fasten both Velcro straps to the raised side rail behind the patient

TIP

Position foam back support or edge-of-bed sitting aid between the patient and the bed rail | The side with the blue Velcro faces away from the user when fastening



2

Position restraining belt beneath shoulder blades, guide belt through underarms & up over the shoulders

TIP

The longitudinal seam and the label must face away from the patient's body



3

Cross the ends of the restraining belt behind the neck of the patient

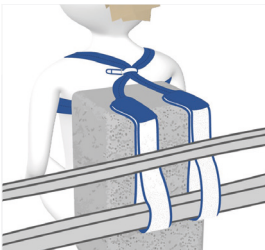


4

Pull the ends to achieve the desired length and attach to the Velcro straps

TIP

Use as much of the Velcro surface as possible to achieve the best hold



5

Fasten the safety tie at the point where the belt overlaps

TIP

MOBILISATION

SITTING IN WHEEL-/RECLINING CHAIR

How-to video



Sitting aid in wheelchair or patient transfer chair

Positioning patients in wheelchairs or transfer chairs is associated with certain risks and uncertainties depending on the patient's age and medical condition, such as fainting, trunk instability or physical weakness. Protect your patients from slumping over, falling to the side or sliding forwards. ThoraXsafe® can be fastened to all usual wheelchairs and patient transfer chairs for **thorax stabilisation** and as a **sitting aid** in the pelvic area.

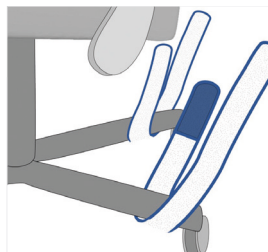
The way to apply the belt for thorax restraint in a wheelchair corresponds to the method for patients sitting on the edge of the bed.

The only difference: with patients sitting on the edge of the bed, the Velcro straps are fastened to the side rails; when also using an edge-of-bed sitting aid, they are fastened to the back of the backrest.

In wheelchairs and transfer chairs, the patient can open the belt system independently and so must be supervised at all times.

ThoraXsafe® can be used as a thorax belt or lap belt on patients in wheelchairs and patient transfer chairs.

How to use ThoraXsafe® as a lap belt in a wheelchair or transfer chair



1

Open the Velcro strap and fasten to the back of the wheelchair at a suitable location

TIP

Fasten the Velcro straps to the wheelchair at a suitable location | Do not attach the Velcro straps to moveable or rotating parts of the wheelchair | The side with the blue Velcro faces away from the user when fastening



2

Position the restraining belt over the upper thighs at the height of the pelvis

TIP

The longitudinal seam and the label must face away from the patient's body



3

Wrap each end of the restraining belt around the upper thighs

TIP

Pull the belt tight | The resulting loops resemble the leg loops of a climbing harness



4

Pull the ends to achieve the desired length and attach to the Velcro straps

TIP

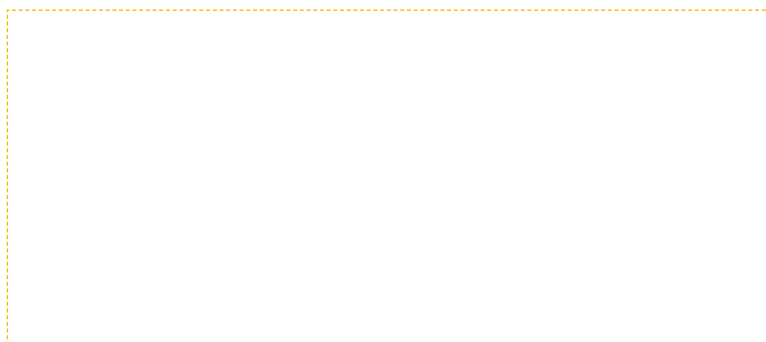
Use as much of the Velcro surface as possible to achieve the best hold

CONTACT

ORDERING INFORMATION

Contact us to schedule an appointment for a personal product presentation!

ThoraXsafe® can be used in many different situations and scenarios and represents a considerable improvement for patients and medical staff. Because of the great number of possible uses, personal training is necessary for all users. We will gladly assist you and your team in training sessions that comply with the Austrian Medical Devices Act (MPG). You will be able to ask questions in person and will receive professional advice from our experts.



Ordering information

ThoraXsafe® Art.No. HSOTF01
1 packaging unit = 4 sets (each individually packed)



SALES

Rudolf Heintel Gesellschaft m.b.H.
Erdbergstraße 166
1030 Wien, Österreich

T +43 (1) 403 89 56-0
F +43 (1) 403 89 56-50
medizintechnik@heintel.at
www.heintel.at

Photo:

© IStock Photo Alex Potemkin

© IStock Photo Anton Novik

Subject to possible misprints and setting
errors

Version 1.0 | Last updated: October 2018

www.thoraxsafe.com