

sigvaris



ULCER X

The alternative to the
compression bandage

MEDICAL COMPRESSION
STOCKINGS

Live your life. Be yourself.

This motto guides us.

It is aimed at the wearers of our compression solutions. They are our focus. Individuals with diverse medical and personal needs. People who only want one thing - to lead an active life while remaining true to their style. Without compromises.

We want to develop the best compression solutions for people. Each and every individual should feel good. Every day. We have been focusing on this **for over 150 years.**

Our Premium portfolio of medical compression stockings is made up of the following **segments** that address various needs and indications:

- **Essential**
- **Style**
- **Active**
- **Specialities**

Each segment is designed to not only let you find a suitable, but also the best compression solution. On the one hand, the focus is on the effect and medical aspects, on the other, the products should make the customer feel good and help to lead a life without restrictions.

Specialities

Every person is unique and their requirements for compression solutions can change depending on their life situation.

However, sometimes the medical aspect is of primary concern and the needs of the stocking wearer cannot be met with standard compression solutions. These are situations where products from the Specialities segment come into their own. They are characterized in that **each stocking has been developed for a very specific medical indication or special need.**

In this folder, we take an in-depth look at **ULCER X**, which can be found in the Specialities segment.

ULCER X is manufactured in St. Gallen and therefore stands for **Quality made in Switzerland**. This is something we are proud of.

Specialities

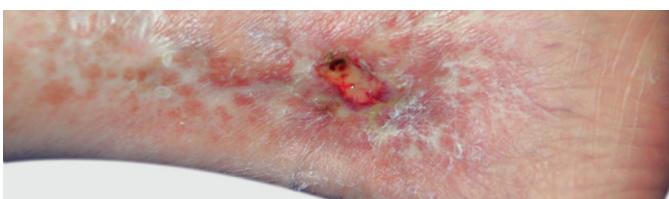
ULCER X



Compression therapy for venous ulcers

In industrialised countries, 1-2% of the population develop an ulcer during their lifetime. The majority of these ulcers will be venous in origin. High-pressure compression therapy forms the basis of any ulcer treatment. Traditionally, this compression took the form of multi-layered, short stretch bandages. Compression stocking systems were specifically developed to treat venous ulcers, thus facilitating compression therapy and offering many benefits:

1. Stocking systems are easier to apply.
2. Stocking systems guarantee controlled, reproducible pressure.
3. Stocking systems are more comfortable for patients to wear.



Active ulcus cruris venosum (CEAP stage C6); © Dr. med. Hans-Joachim Hermanns, Venen-Praxis-Luzern

For her and him




The alternative to a compression bandage

ULCER X is a compression stocking kit comprising two components:

1. one **understocking** with low pressure (15-20 mmHg; 2.0-2.7 kPa)
2. one **overstocking** with 23-32 mmHg of pressure (3.1-4.3 kPa)
3. this combination exerts a total pressure of ~ 45 mmHg (~ 6.0 kPa) on the ankle

The inside of the patented understocking features a special, **extremely fine cotton yarn**, which optimally regulates heat and moisture. The outer surface is particularly smooth and – similar to a gliding sock – enables an open-foot overstocking (TRADITIONAL) to be applied easily. **The overstocking should be worn from the moment patients get up in the morning to the moment they go to bed.**

Product range overview ULCER X

| | | |
|---------------------------------|---|---|
| ULCER X Matchcode ULX | |  |
| | | |
| CCL | ~45mmHg (~ 6.0 kPa) | ● |
| Toe |  | (overstocking) |
| |  | (understocking) |
| Color | ● beige | ● |

ULCER X Kit comprises: 2x understocking, 1x overstocking
Additional understockings are available separately (4 pieces).



Benefits

Precise

Reproducible pressure of ~45 mmHg (~6.0 kPa) at the ankle.

Comfortable

Greater wearing comfort for patients compared to bandages.

Effective

Better healing rates in small and medium-sized ulcers compared to bandages.

Protection

Due to the patented liner, the wound dressing also remains fixed in place at night and the wound is not affected adversely when used correctly - neither when donning nor doffing.

More autonomy

Patients can apply ULCER X on their own and do not need assistance (providing patients can apply a category 2 medical compression stocking on their own).

Important information

- Do not wear ULCER X over open wounds. Wounds should be covered with the appropriate wound dressings.
- To apply and remove the stockings, special Sigvaris gloves should always be worn.
- The understocking must be worn for 24 hours. Apply the overstocking when you get up in the morning and remove it before you go to bed.
- We recommend washing both the understocking and the overstocking daily.
- Sigvaris ULCER X should only be worn as prescribed by the doctor.
- Specialities TRADITIONAL and ULCER X contain latex that does not come into direct contact with the skin.



Good to know

Indications and contraindications

Indications Specialities ULCER X:

- Treatment of venous leg ulcers (ulcus cruris venosum) following wound treatment.

Contraindications Specialities ULCER X:

Medical compression stockings must not be worn in the following cases:

- Advanced peripheral arterial occlusive disease (if one of the following parameters applies: ABPI <0.5, ankle blood pressure <60 mmHg, toe blood pressure <30 mmHg, or TcPO₂ <20 mmHg instep).
- Decompensated heart failure (NYHA III + IV)
- Septic thrombophlebitis
- Phlegmasia cerulea dolens

Relative contraindications, whereby benefits and risks must be weighed up, in particular:

- Arterial perfusion disorder (ABPI between 0.5 and 0.8)
- Pronounced exuding dermatoses
- Intolerance to compression material

- Severe sensory disturbances of the extremity
- Advanced peripheral neuropathy (e.g., in diabetes mellitus)
- Primary chronic polyarthritis

Care

After wearing, the stockings should be washed by hand or at max. 40 °C (understockings: max. 60 °C) with a gentle wash cycle in the washing machine in a laundry net. It is important to use a mild detergent without fabric softener. The Sigvaris WASHING SOLUTION is suitable for washing by hand.

To preserve maximum durability of the product, please inform your customers that we do not recommend using a dryer/heater. The stockings must not be ironed or dry cleaned. The stockings should be stored dry at room temperature away from direct sunlight.



Donning and doffing

Applying the understocking



Applying TRADITIONAL compression stocking



Removing TRADITIONAL compression stocking



Study results: comparisons of ULCER X with bandages

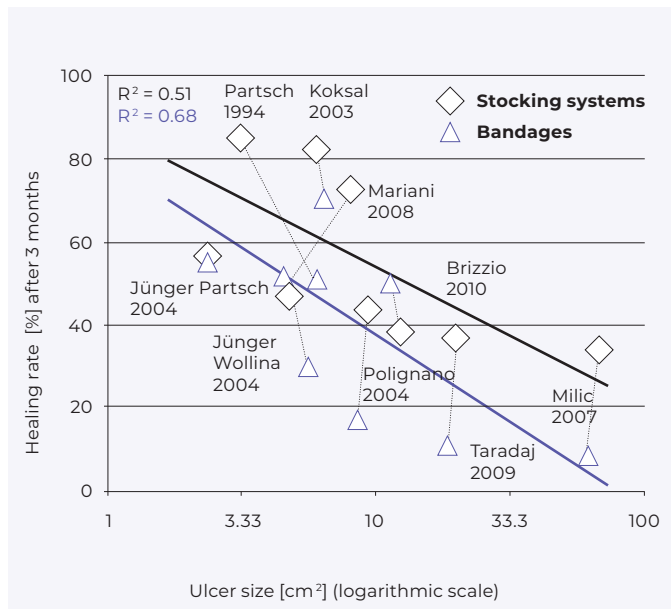


Fig. 1 Enhanced graphic by Amsler et al¹, presented at the Siena CTG Seminar in 2011: Relationship between ulcer size and healing rate over a period of 12 to 13 weeks (Taradaj 2009 after 9 weeks) following compression therapy with bandages or medical compression stockings. R2 of weighted regression analysis.

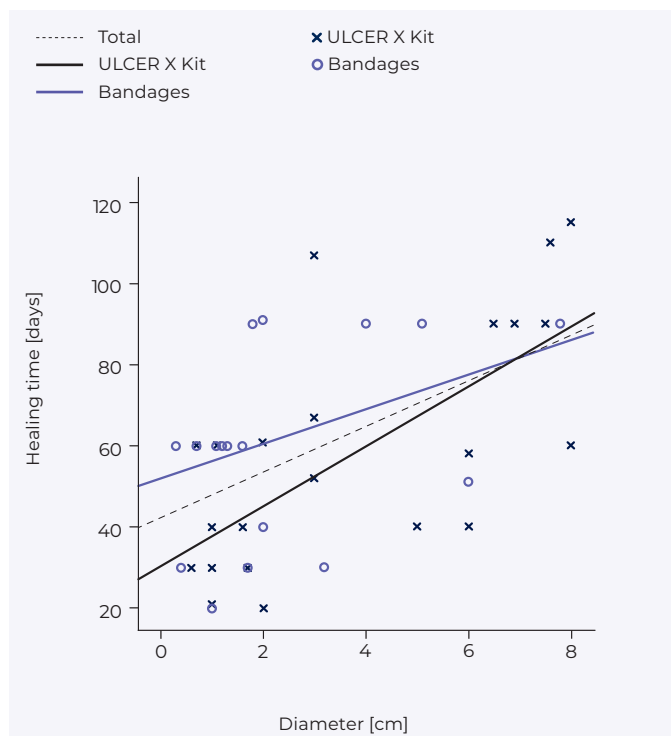


Fig. 2 Illustration of healing time [days] according to ulcer diameter [cm]

ULCER X - better healing rates

Better healing rates through compression therapy with stocking systems. Findings of a meta-analysis by F. Amsler, W. Blättler and T. Willenberg¹.

Numerous comparable studies have shown that healing rates for treatment using stocking systems are superior to those for bandage treatment.

60 patients with venous ulcers were treated with either ULCER X or short stretch bandages as part of a multi-centre, randomised, controlled trial². The trial assessed the degree of ulcer healing over an observation period of four months and patients' own subjective appraisal of compression therapy. The bandages were applied by experienced doctors (study experts).

1. Fully healed within 4 months:
 - Compression with bandages: 70% (21 out of 30)
 - Compression with ULCER X: 96.2% (25 out of 26)
2. Ulcers with a diameter up to 4 cm healed twice as quickly with ULCER X as with bandages.

ULCER X - greater comfort

The subjective assessment of patients has shown that ULCER X is perceived as being more pleasant by patients²:

- Participants in the ULCER X group reported no discomfort at all during the night or in the morning, while 40% of participants in the bandage group reported discomfort during the night and 20% in the morning.
- The number of subjective problems was significantly higher with bandages than with ULCER X ($p < 0.0001$).

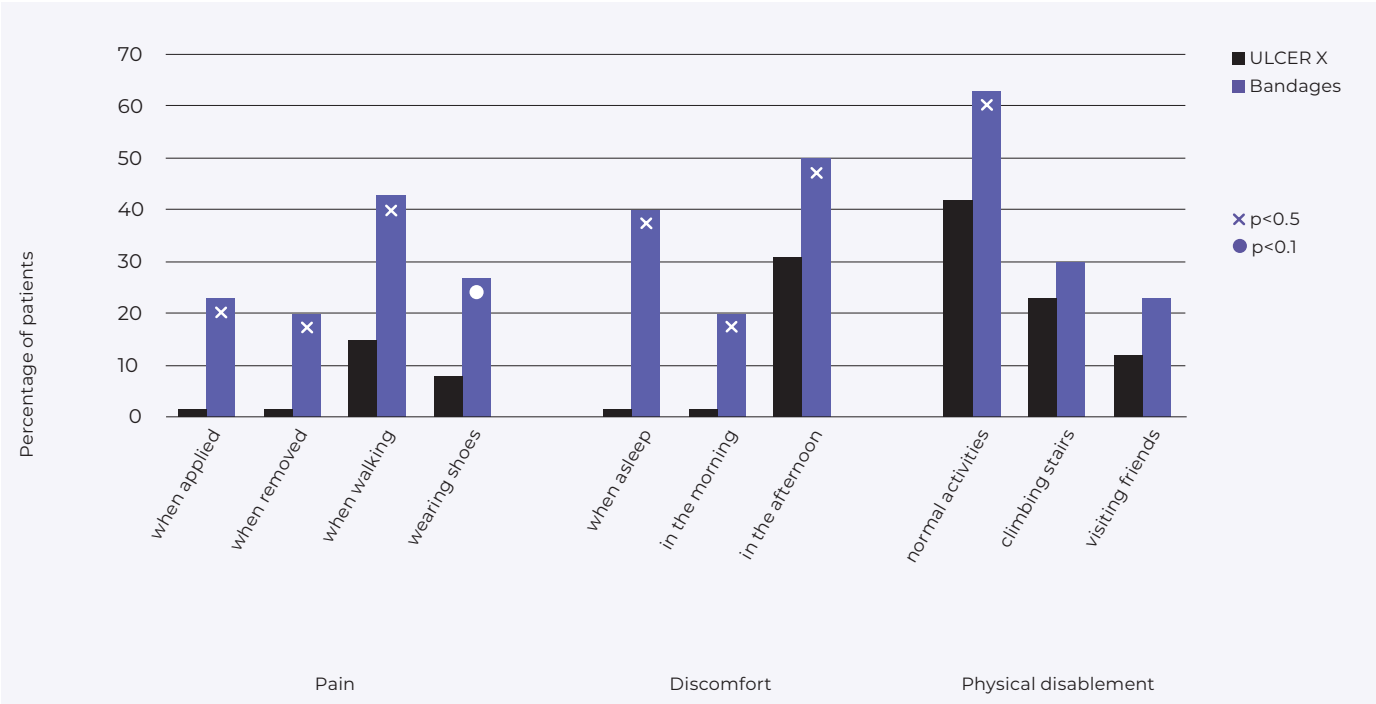


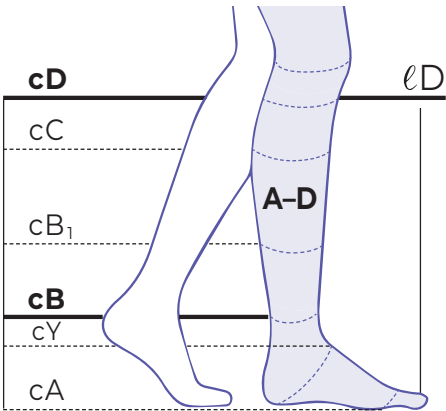
Fig. 3 Prevalence of pain, discomfort and constraint on activities (percentage of patients with at least one point on each Likert scale)

Literature

¹ Amsler F, et al. In search of optimal compression therapy for venous leg ulcers: a meta-analysis of studies comparing diverse bandages with specifically designed stockings. J Vasc Surg 2009; 50: 668-674.
² Mariani F, et al. The treatment of venous leg ulcers with a specifically designed compression stocking kit - Comparison with bandaging. Phlebologie 2008; 37:191-197.

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| | Circumference cm | | | | | | | | |
|-----------------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | XS | S | S Plus | M | M Plus | L | L Plus | XL | XL Plus |
| cD | 26-32 | 28-34 | 32-38 | 31-37 | 36-42 | 34-40 | 40-46 | 38-43 | 44-49 |
| cC | 28-31 | 31-36 | 35-40 | 34-39 | 39-44 | 37-42 | 43-48 | 40-45 | 47-52 |
| cB ₁ | 21-24 | 24-29 | 24-29 | 29-32 | 29-32 | 32-36 | 32-36 | 35-39 | 35-39 |
| cB | 17-19 | 19-23 | 19-23 | 23-26 | 23-26 | 26-29 | 26-29 | 29-32 | 29-32 |
| cY | 25-28 | 28-32 | 28-32 | 32-35 | 32-35 | 35-38 | 35-38 | 38-41 | 38-41 |
| cA | 17-19 | 19-23 | 19-23 | 23-26 | 23-26 | 26-29 | 26-29 | 29-32 | 29-32 |



| Length cm | |
|-----------|---------|
| short | 33 – 37 |
| long | 38 – 44 |

Material composition:
TRADITIONAL compression stocking:
70% polyamide, 30% elastodiene

Understocking:
62% polyamide, 26% elastane, 12% cotton

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feel their best. Every day.**

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