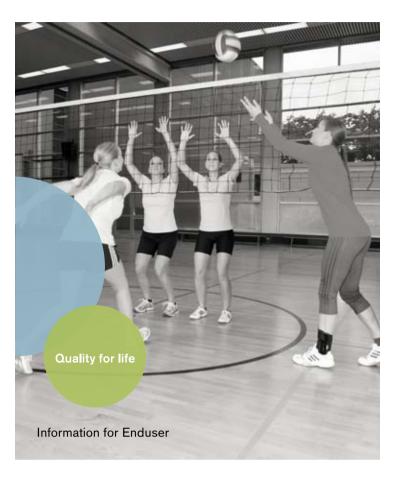
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Malleo TriStep

Get active again after ankle ligament injuries



Three phases, one orthosis

Applying the Malleo TriStep

The healing process is different for each ankle injury. The phases described are for the purpose of orientation only and reflect experience frequently made with these types of injuries. The durations may vary. Your doctor will tell you which phase of healing you are in and how you should adjust the orthosis.

Inflammation phase

up to day 3 (max. up to day 14)

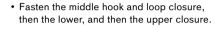


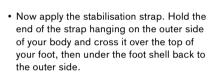
- The injury should be treated according to the so-called RICE
- R (rest), I (ice), C (compression) E
- Wear the Malleo TriStep with the stabilisation strap and foot shell for controlled immobilisation of the foot during the first phase.

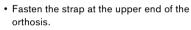
Goal:

- Less pain
- Reduce foot swelling

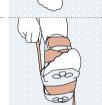
- Open all hook and loop closures. Position your foot at a right angle.







· Repeat this step in the opposite direction



New tissue formation phase

day 4 to 28

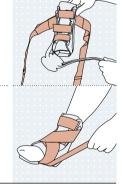


Tips:

- Wear the orthosis with the stabilisation strap during the day
- At night, use the foot shell as well This is to prevent the foot from falling into an interior rotation position at night, especially when lying on your back or side. This position puts significant strain on the tissue structures on the outside of the ankle that are in the process of healing. There is a risk that the ligaments may tear again during the night.

- Mobilisation
- Stabilisation

- Unfasten the stabilisation strap
- · Remove the foot shell from the orthosis during the day.
- Position your foot and fasten the hook and loop closures as in phase I
- · Apply the stabilisation strap as described in
- · Continue to use the foot shell at night



Tissue maturation phase

after day 29

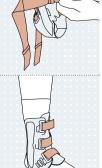


- · Wear the orthosis without the
- stabilisation strap and foot shell. Depending on the severity of the injury, you can continue to use the
- stabilisation strap as needed After the end of phase III, you can continue to wear the orthosis to prevent re-injuring your ankle

Goal:

- Improve stability and mobility
- Increase coordination and balance

- · Remove the stabilisation strap before applying the orthosis
- Position your foot and fasten the hook and loop closures of the Malleo TriStep as in
- The Malleo TriSten is worn without the stabilisation strap and foot shell in this last
- Depending on the degree of severity of the injury, the stabilisation strap may be used (e.g. during sports) and the foot shell may



Ankle ligament injuries and their consequences

Have you suffered an ankle ligament injury as the result of falling or twisting your ankle?

Ankle injuries are among the most frequent of all injuries and can have long-term consequences:

- · Approximately half of these accidents occur while participating in sports; most of the rest occur at home or at work.
- Following a ligament injury, the risk of suffering another ankle injury increases two to fivefold. Around 30% of all patients are injured again within three years. Among active athletes, this figure is as high as 73%.
- · Half the patients still feel pain while walking and running 6 to 18 months after an acute ankle injury. For 33% of the patients, this is still true 7 to 8 years after the original injury.

The modern concept

Three phases, one orthosis

Surgery was once considered the only option following ankle injuries. This was followed by several weeks of joint immobilisation in a plaster cast. In contrast, modern therapy calls for orthoses, as they allow as much freedom of movement as possible while providing only as much protection as necessary.

The Malleo TriStep multifunction orthosis can be adapted to three phases of the healing process. Your ankle is specifically stabilised following an acute injury. Later, you can gradually accustom your foot to movements. You can adapt the orthosis to the respective healing phase in just a few steps. In consultation with the doctor, this therapy approach is supported by the proven Malleo Move exercise programme (see reverse).

Your benefits

at a glance

- The orthosis can be adapted to three phases of healing
- The foot shell also prevents unwanted foot movement toward the sole
- Individually adjustable for a high level of wearer comfort
- · Easy handling and quick application of the orthosis
- The Malleo Move training programme (see reverse) supports the healing process



Malleo Move

Exercise programme

Please be sure to consult your doctor before beginning these exercises. Make sure you know what phase of healing you are in and ask how much you can exercise your foot.

Phase I: Immobilisation

up to day 3 (max. to day 14)

1. Flexing and extending the foot and toes

Starting position

- Lie on vour back surface
- · The foot is in the neutral position (90° angle)

Exercise

- Pull your foot and toes towards your
- Now flex the foot and curl your toes as far as the orthosis allows
- Complete this exercise slowly (2 seconds each direction)
- Important: Foot and toe movements should always be pain free!

Implementation

- Repeat 8-10 times throughout the day (e.g. hourly)
- · Take sufficient time to rest, especially during the first few days, and avoid overexerting yourself

2. Air cycling

Starting position

- Lie on your back surface
- The foot is in the neutral position (90° angle)

Exercise

- Make a pedalling motion in the air with the affected lea
- Complete this exercise evenly, rhythmically and slowly (3 seconds
- Important: Foot and toe movements should always be pain free!

Implementation

- 15 seconds in one direction, 10-second pause, change direction
- Repeat 5-10 times throughout the day (e.g. hourly)

• Take sufficient time to rest, especially during the first few days, and avoid overexerting yourself

Important information:

- In all stabilisation exercises (phase II), it is crucial to maintain a focused upright position of the upper body. Look straight ahead, not at the affected foot. Avoid compensating movements with the torso or arms and reduce the difficulty of the exercise if you are unable to keep your balance.
- The recommended times constitute general guidelines and deviations are possible on a case-by-case basis.
- If you experience any discomfort during or after an exercise, stop training immediately and consult your doctor or therapist.
- Please observe the corresponding descriptions for each exercise.
- · Avoid overtaxing yourself in order to prevent injury
- If you feel unsure about an exercise, it is better to skip it and perhaps try it again at a later time.
- Work with your doctor or therapist to adapt the exercises to your weaknesses and progress.

We do not assume any liability for errors that may arise while doing the exercises of the Malleo Move exercise programme. Please be sure to consult your doctor or therapist before starting the exer-

Phase II: Stabilisation

day 4 to 28

3. Flexion and extension in the upper ankle

Starting position

- Stand with your feet hip-width apart
- · At the beginning of phase II, shift most of your weight to the sound leg
- For safety: hold onto a chair with one hand at the start

Exercise

- Slowly lower your body's centre of gravity towards the floor (3 seconds per direction)
- Straighten up again
- During the exercise, keep your lower legs parallel and knees apart. Avoid an X-shaped leg

Implementation

3x 10 repetitions, twice daily



4. One-legged stance, swinging the sound leg back and

Starting position

- Stand on the injured leg
- · For safety reasons, remain close to a stable support

Exercise

- Raise the sound leg off the floor and bend it at the knee
- Swing the leg back and forth slowly (4 seconds each direc-
- Keep your body and support ing leg straight
- Try to gradually disengage vourself from the stable

Implementation

20 seconds, twice daily



5. Balance board** for strength training

Starting position

- Stand with your injured leg on the balance board
- · Stand slightly on tiptoe with the sound leg

Exercise

- Start by balancing in the neutral position (90° angle)
- Try to lower the inside edge of the balance board in a controlled manner and then return

Implementation

• 30–60 seconds, several times



6. Balance board** one-legged knee stance I

Starting position

- Stand with your injured leg on the balance board
- With the sound leg, kneel on a towel folded several times

- Balance in the neutral position without allowing the balance board to tilt
- Try to lower the inside edge of the balance board in a controlled manner and then return it to the neutral position

Implementation

• 15-60 seconds, two to three times daily



Phase III: Remodulation

after day 29

7. Balance board** one-legged knee stance II

Starting position

- the balance board
- With the sound leg, kneel on

Exercise

- Balance in the neutral position without allowing the balance board to tilt
- · Try to lower the inside edge of the balance board in a controlled manner using only you
- ankle and then return it to the neutral position Keep your knee straight during the exercise

Implementation

10-30 seconds, e.g. hourly

8. Knee bends on an unstable surface

Starting position

- Stand with your injured leg on a towel folded several times
- · Make sure you are training or a non-slip surface
- Perform a lunge
- If possible, shift your body weight to the injured leg

Exercise

- Now do slow knee bends (4 seconds each direction of movement)
- · You can also turn your head alternately to either side as part of the exercise
- Avoid compensating movements

Variations

- 1. You can increase the distance between your legs in order to increase the load
- 2. Do the exercise while standing on tiptoe

Implementation

• 5-10 repetitions with 5-second breaks, three times daily

9. Foot coordination in one-legged stance

Starting position

- Place a towel on the floor in front of you
- · Stand only on your sound leg

Exercise

- Grab the towel with your toes and bend your leg
- · Move your leg up and down You can also turn your head alternately to either side as
- part of the exercise Avoid compensating move
- ments Switch supporting legs

Implementation

15 repetitions, several times daily

10. Knee bend in one-legged stance

Starting position

- Stand only on your injured legMost of the weight is on the ball of the foot and the big toe has good floor contact · The other toes must not be
- curled • The knee must be kept
- straiaht

Exercise

- Slowly flex and extend the knee (at least 4 seconds each direction)
- You can also turn your head alternately to either side as part of the exercise
- Avoid compensating movements
- Attention: Since this exercise is associated with an increased risk of injury, be careful when performing it

• 5–10 repetitions, two to three times daily

11. Tilting sideways on the balance board**

Starting position

- the balance board
- · Stand on tiptoe with the sound
- · Balance the balance board in

• Lower the outside edge until it touches the floor, and then slowly return your foot to the neutral position

Variations

1. Lower the inside edge until it touches the floor, then slowly

12. Balance board variations**

- Stand with your injured leg on the balance board
- · Stand on tiptoe with the sound
- the neutral position

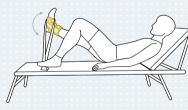
touches the floor, then slowly

1. Lower the back edge until it

touches the floor, then slowly return your foot to the neutral position

30–60 seconds, rest 5 seconds between exercises

- Lie on your back on a comfortable
- surface Wrap an elastic band (e.g. Thera band) over the middle of your with the sound



- · Bend your foot inwards at the ankle in a controlled manner, then extend your foot back to the starting position
- · Avoid movements in the hip joint during the exercise



** Balance board

The following applies to all balance board exercises:

- Place a book or a stack of paper under the outside edge initially
- · Avoid placing your full weight on the injured foot
- The balance board supports the exercise programme for the Malleo



- Stand with your injured leg on
- the neutral position

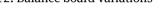
Exercise



- return your foot to the neutral position 2. Stand on one leg and balance on the

Implementation

• 30–60 seconds, rest 5 seconds between exercises



Starting position

- Balance the balance board in

Exercise Lower the front edge until it

Variations

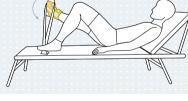
return your foot to the neutra

2. Stand on one leg and balance on the balance board

Implementation

13. Ankle strengthening exercise

Starting position

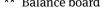


foot

Move the injured foot slightly outwards

Implementation 5x 10 repetitions with 5-second breaks, two to three times daily





- Be sure to train on a non-slip surface
- Keep in mind that your sound leg bears half your body weight