Protocol for Checking the Orthosis Function

Company: ..... Customer Number: .....

Orthotist: ..... Date: .....

Patient: ..... Insurance: .....

The Protocol for Checking the Orthosis Function is carried out:

- ◯ for the current orthosis. Produced on: .....
  - ◯ after maintenance. Carried out on: .....
  - ◯ for planning a new orthosis.
- ◯ for handing over a new orthosis. Produced on: .....

1. Orthosis Data

◯ AFO ◯ KAFO ◯ KO ◯ ortho-prosthesis

Foot Piece: ◯ short ◯ long and partially flexible ◯ long and rigid

Ankle Joint:

Lateral	Medial
◯ NEURO	◯ NEURO .....
◯ no ankle joint	◯ no ankle joint
◯ Other:	◯ Other: .....

Knee Joint:

Lateral	Medial
◯ NEURO	◯ NEURO .....
◯ articulated side bar KS	◯ articulated side bar KS .....
◯ no knee joint	◯ no knee joint
◯ Other:	◯ Other: .....

Does the orthosis comply with the configuration recommendation? ◯ yes ◯ partially ◯ no

2. Checking the Orthosis' Alignment on the Workbench

ⓘ **For the following sections, place the orthosis into the shoe.**

2.1 The length of the orthosis' foot piece corresponds to the inner shoe length.

◯ yes ◯ no

2.2 The pitch of foot piece and shoe is identical.

◯ yes ◯ no

2.3 The toe spring is considered correctly.

◯ yes ◯ no

Online Tutorial

ⓘ **Examine the orthosis' alignment laterally. If required, hold the orthosis in the position shown on the right and check the stops.**

2.4 The orthosis' alignment matches the picture.

◯ yes ◯ no

2.5 The stops of all joints are reached.

◯ yes ◯ no

Basic Alignment of the Orthosis

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3. Checking the Orthosis' Alignment on the Patient: Static

3.1 According to the configuration result, a dorsiflexion stop is recommended.

◯ yes ◯ no ◯ not known

3.2 A visual stance analysis is performed.

◯ yes ◯ no

◯ without additional medical devices Reason: .....

◯ with additional medical devices .....

ⓘ **For the following sections, make sure the patient is standing and wearing the orthosis and appropriate shoes.**

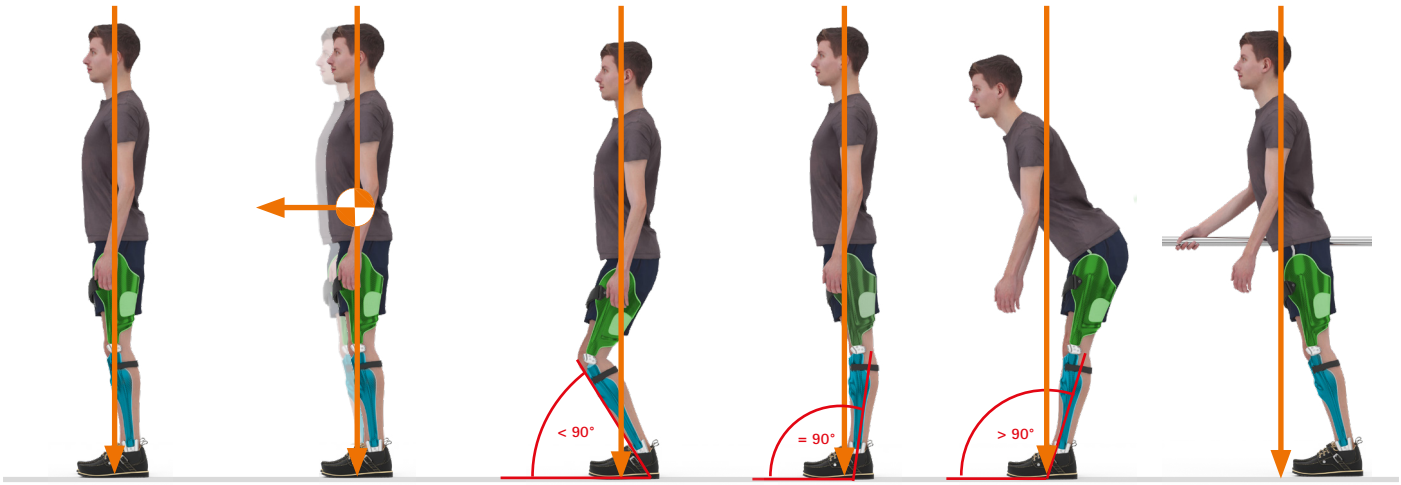
3.3 A weight shift from one leg to the other is possible.

◯ yes ◯ rather yes ◯ rather no ◯ no

Reason: .....

.....

3.4 The patient matches the following positions the most (multiple selections possible):



free-handed stance possible	forward shift of the centre of gravity possible	shank vertical angle too small	shank vertical angle too wide	medical devices required
◯	◯	◯	◯	◯

3.5 The stops are reached in the position ticked off at 3.4.

Ankle Joint: the dorsiflexion stop is reached.

◯ yes ◯ no ◯ no dorsiflexion stop present

Knee Joint: the extension stop is not reached.

◯ yes ◯ no ◯ no extension stop present

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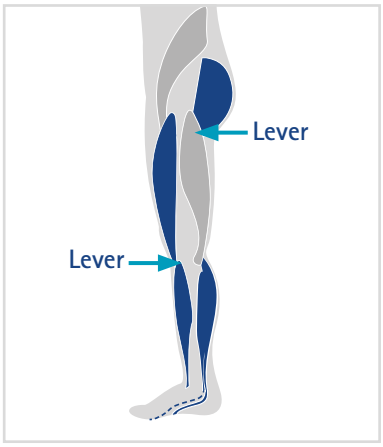
3.6 The fit of the orthosis in the position ticked off at 3.4 is as follows:



The maximum lever lengths are reached.

◯ yes ◯ rather yes ◯ rather no ◯ no

The functioning muscles (dark blue) have sufficient space.

◯ yes ◯ rather yes ◯ rather no ◯ no

The fasteners secure the orthosis to the leg and do not carry any weight.

◯ yes ◯ rather yes ◯ rather no ◯ no

4. Checking the Orthosis' Alignment on the Patient: Dynamic

4.1 A visual gait analysis is performed.

◯ yes
- ◯ without additional medical devices
- ◯ with additional medical devices

◯ no

Reason: .....

.....

ⓘ For the following sections, make sure the patient is wearing the orthosis and appropriate shoes. Examine several step processes and not just one gait phase. If a certain phase is decisive for the protocol, it is noted in the respective section.

4.2 Step Process

The load duration on both legs is as follows:

◯ equal ◯ rather equal ◯ rather unequal ◯ unequal

Reason: .....

.....

.....

The step length of both legs is as follows:

◯ equal ◯ rather equal ◯ rather unequal ◯ unequal

Reason: .....

.....

.....

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ⓘ **For the following sections, always consider several step processes. Evaluate whether and how often the statements are true.**

4.3 Gait Analysis: Foot

4.4 Gait Analysis: Knee


Initial contact

The patient touches the floor with the heel first.

◯ always ◯ most of the time
◯ sometimes ◯ never

Reason: .....


Loading response

A (passive) plantar flexion occurs.

◯ always ◯ most of the time
◯ sometimes ◯ never

Reason: .....

The knee joint is...

◯ flexed and the angle is... ◯ hyperextended.
◯ approx. 15°.
◯ < 10°. ◯ > 20°.

Reason: .....


Mid stance

The foot contact is complete.

◯ always ◯ most of the time
◯ sometimes ◯ never

Reason: .....

The knee joint is...

◯ flexed. ◯ hyperextended.

Reason: .....


Late mid stance

A dorsiflexion occurs.

◯ always ◯ most of the time ◯ sometimes
◯ ca. 5° ◯ ca. 5° ◯ ca. 5°
◯ > 5° ◯ > 5° ◯ > 5°
◯ never

Reason: .....

The knee joint is...

◯ flexed. ◯ hyperextended.

Reason: .....


Terminal stance

The heel lifts significantly from the ground.

◯ always ◯ most of the time
◯ sometimes ◯ never

Reason: .....

The knee joint reaches a flexion angle of...

◯ approx. 0°. ◯ approx. 5°.
◯ < 0° ◯ > 5°.

Reason: .....


Pre swing

A flexion movement occurs in the knee joint.

◯ always ◯ most of the time
◯ sometimes ◯ never

Reason: .....


Initial swing

The knee joint reaches a flexion angle of...

◯ approx. 60°.
◯ < 60°. ◯ > 60°.

Reason: .....


Terminal swing

The knee joint reaches a flexion angle of...

◯ approx. 0°.
◯ < 0°. ◯ > 0°.

Reason: .....

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