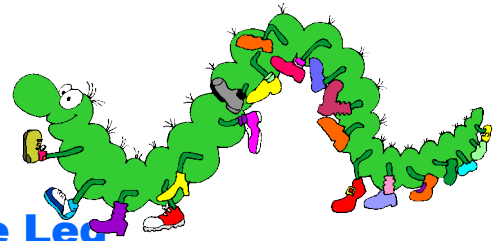


BELAMED



Insole for Controlling the Load to the Leg during Walking

Overview:

Main Areas of Application: accident surgery, orthopaedics

The Task:

Following i.e. accidents or surgery it is often necessary to limit the load on the leg during the healing process to avoid damage during walking.

On the other hand a limited and well defined amount of load during early mobilisation helps the healing process. A compromise is a partial load on the leg with walking aids.

Load Control today:

Monitoring the partial deloading at the moment is mostly effected by putting the patient's foot on a scale and instructing him to put weight on it up to the point where the doctor decides that the maximum value is reached. The patient is asked to remember the feel of that load and apply it during walking with walking aids. It is obvious that this approach is error prone and wont yield acceptable results especially with elderly patients.

The Alternative: Using the BELAMED System.

System Description:

The system consists of three monitoring insoles in different sizes and the electronic signaling unit. The signaling unit is attached with a velcro strip to the patients lower leg. The insole is put into the patients shoe and subsequently the patient is asked to put the foot onto a weighing unit and increase the load up to the desired limit. A Button on the signaling unit is set to a position where a tone will heard whenever the patient transgresses the load limit. With this acoustic feedback the patient is enabled to accomodate his locomotion to the necessities.

Application Examples:

- Avoiding overload to the injured leg during walking with walking aids. An overload will be indicated by an acoustic signal.
- Locomotive training for patients with their first prothesis, here the acoustic signal will inform the patient when he has reached a sufficient load on the prothesis.

Technical Data:

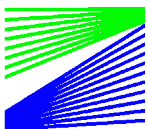
Insole Sizes: 36/40/44; further Sizes available on demand

Pressure Sensor: FSR-Sensor

Size of the Signaling Unit: 125mm x 35mm x 25mm

Weight of the Signaling Unit: 55g (without Battery)

Power Source: 9 V



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