



[www.orthoflex.net](http://www.orthoflex.net)

ORTHOFLEX LTD., 12/8 Lincoln St. Haifa, Israel, 34369

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## **Advantages of using ORTHOFLEX braces and more**

Founded in 2005 by a world-recognized authority in orthopedic medicine, Orthoflex products represent the next generation in limb bracing, together with smart solutions for previously unmet orthopedic needs.

### **For the medical personal, Orthoflex braces:**

- Do not require plaster.
- Save significant time, manpower and expense in application.
- Can be applied immediately by first responders to an emergency.
- Are easily removed and replaced when follow-up treatment is needed.
- Allow wound treatment at the site, as well as blood circulation, air circulation and skin healing.

### **In addition, patients using Orthoflex benefit from:**

- Greatly reduced pain in transport from the trauma site.
- Increased freedom of movement along with strong support.
- Easy removal for washing, cooling and scratching of the covered area, wound inspection.
- Prevention of skin sores and circulation problems from excessive tightness.

### **Orthoflex: Multiple Advantages**

- Splints are applied and inflated in one minute.
- Injured limbs are immobilized without removing clothing or shoes.
- Inflated padding reduces pain by absorbing jolts during transport.
- Adjustable rigidity customizes the brace to the type and severity of injury.
- Conforming to body shape gives better support with minimal discomfort.
- Removable as needed.
- Ongoing care of skin wounds is enabled while treating bone injuries.
- Splint materials are translucent in radiological images.
- Brace components can be washed, disinfected and sterilized for reuse.
- Maintain plantigrade position and give full foot and ankle protection in intensive care for immobile, anaesthetized, unconscious, or paralyzed patients. Prevent heel cord contracture.
- Fit easily over intermittent compression sleeves for DVT prevention.
- Allow early supervised movement in the splint to speed up rehabilitation.
- Serves as dynamic night splint for heel spurs.

### **Orthoflex: For Emergency Rooms and Hospitals**

- Ideal for foot and ankle surgery pre and post operations.



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- Ideal support for lower limb injuries.
- Easy, rapid application of one minute or less.
- No plaster, no mess, reduced labor intensity.
- Ideal for X-ray, CT and MRI imaging without removal.
- Skin color and foot pulse are easily monitored.
- Provides access to leg wounds while maintaining full limb support.
- Suitable for all further hospital procedures for patient admissions.
- Suitable for ongoing, outpatient treatment.
- Brace components can be washed, disinfected and sterilized for reuse.

**Orthoflex in the Field: For Ambulances, Rescue Teams, Military & Emergency Services**

- Universal temporary solution for immobilization, support and evacuation of all lower limbs injuries.
- Rapid application time in the field – just one minute or less.
- Lightweight, compact, flat-packaged product – easy to carry in the field.
- Flexible removal and reapplication allows access for optimal first aid of lower limbs.
- Significantly reduces fracture pain during patient transport.
- Ideal for transporting injuries for treatment - reduces fracture pain significantly.
- In keeping with "scoop and run" evacuation.

**Field-Tested Innovation, Wide-Ranging Application**

**Orthoflex Flagship Product Line:**

- These removable, reusable braces are made of durable nylon and polyurethane, which can be washed with antiseptic or sterilized with gas.
- Using the hand pump included in the kit, the splints are inflated to the desired rigidity, conforming to the shape of the patient's body.
- Cradle Splints can be applied over clothing and shoes in two minutes, and can be removed in even less time.
- They are equally effective for immediate first aid stabilization, pre- and post-operative care and long-term use in ICUs, nursing facilities or homes.
- Allows adjustable flexibility in cases where rigid splints are not desirable.
- Stabilizes the foot of bedridden patients in a non-rotating plantigrade position.
- Provides effective de-rotation stabilization for hip and femur-neck fractures.
- Gives custom-adjusted support to lower limb without unnecessary pressure.

**Short Splint for Foot-Ankle Support**

- Protects and supports the foot and ankle with inflated padding.
- Functions as a protective boot for patients able to walk.
- Prevents pressure ulcers and leg complications in paralyzed or unconscious patients.
- Aids in prevention and treatment of diabetic foot ulcers.



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- Effective for night-time padding of plantar fasciitis cases (heel spurs).

#### **Long Splint for Full-Leg Support**

- One splint supports the entire leg from heel to thigh.
- Together with the contained "well-leg" strap it is single splint suitable for first aid support of all levels of injury to the lower limb.
- It is intended to give support to fractures, injuries, diseases, and operations of the foot, ankle, calf, knee, and sometimes above, when rigid immobilization is not needed or desirable.

#### **Compared to the properties and disadvantages of plaster of Paris and synthetic casts:**

- *Application of all types of casts is time consuming and laborious.*
- *Plaster of Paris is heavy and stiff.*
- Even synthetic casts and pliable casts cannot be made to respond to changes in the limb: they must be removed and exchanged for swelling, reduction of swelling, patient complaints of...pressure pain and skin irritation.
- All full plaster casts have the disadvantages and dangers of being circular.
- Plaster slabs are cumbersome and inefficient...
- Classical plasters are not radiolucent.
- Application requires two pairs of hands.
- Sets of peripheral equipment are required for padding, skin protection, wetting, cutting, cleaning etc. . . .
- Messy environment which needs cleaning: e.g. in the OR
- Change of dressings or removal of stitches requires cast removal and reapplication.
- Plaster cast treatment of all kinds requires considerable expertise to prevent complications.
- Physicians and plaster technicians only are permitted to apply plaster cast of all kinds.
- Cast is not washable: tend to stink and accumulate secretions and discharges.
- Opening and removing a cast with a plaster saw is very frightening. Often the skin is scratched or braised during removal.
- All in all the use of plaster casts is not user friendly and certainly not patient friendly.