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.
• 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.