

Fluid Immersion Simulation: The most effective method of pressure redistribution for complex patients

Dolphin Therapy vs. Conventional dynamic support surfaces

Conventional dynamic support systems concentrate on redistributing pressure either by alternating high and low pressures between adjacent parts of the body or by displacing a patient's weight across the surface of the mattress in an attempt to create immersion.

In each case mattress designers struggle with the pressure redistribution conundrum; in an attempt to reduce the overall surface contact pressure more air is forced into part or throughout the mattress thereby increasing the internal mattress pressure.

A new alternative:

Immersion in a fluid is the most natural and effective form of pressure redistribution.

Dolphin Therapy is a reactive mattress system that creates a simulated fluid environment, enabling full immersion and envelopment, significantly reducing pressure, shear and tissue deformation.

As a result:

- Tissue symmetry is maintained
- Vascular occlusion is minimised, maintaining near normal blood flow
- Tissue ischemia is prevented, even when the patient is nursed directly on the affected area
- Positive patient outcomes are achieved

UK

Tel: 0845 371 1717 Email: info@medstrom.co.uk
www.medstrom.com

Ireland

Tel: 01 686 9487 Email: info@medstrom.ie
www.medstrom.ie

Dolphin Therapy delivers outstanding clinical outcomes

Medstrom have gathered clinical outcome data for 1,000 of the most complex patients.

710 of these patients had existing skin damage, with a total of 1,749 pressure ulcers.

290 patients were placed on Dolphin Therapy for prevention and had no existing skin damage.

Clinical outcomes for skin damage included:

- 40% of patients with existing skin damage had their pressure ulcers remain static.
- 55% of patients with existing skin damage had their pressure ulcers heal or improve.
- 60% of patients previously nursed on a traditional dynamic support system had pressure ulcers that healed or improved after being 'stepped up' to Dolphin Therapy.
- 99% of patients placed on Dolphin Therapy with intact skin did not go on to develop a pressure ulcer.

Other outcomes included:

- 99% of patients had their objective for pain management met.
- 99% of patients had their objective for improvement in comfort met.
- 87% of patients who were non-concordant with repositioning became fully concordant.
- 74% of patients who were previously nursed on a dynamic support system were repositioned less frequently on Dolphin.

If you would like to discuss how Dolphin Therapy could benefit your patients, please call us and ask to speak to one of our RN/RGN-qualified Clinical Advisors.

If you'd like to experience Dolphin Therapy, please call us to request an immediate trial, with the first fourteen days offered free of charge for new customers.



SPECIALIST PRODUCTS • UNIQUE SERVICES

Improving outcomes in the patient environment.



Additional benefits of Dolphin Therapy

- Provided as an adult, extra-wide or paediatric size surface
- Suitable for acute, community and care settings
- Very quiet when compared to all dynamic surfaces
- Has no minimum weight limit, so is ideal for low weight patients or those with very bony prominences
- Patients can be nursed directly on their wound and therefore promotes healing of flaps and grafts
- Available as a seat cushion for patients who are able to sit out of bed

Medstrom's specialist product rental service

Dolphin is part of our specialist rental service, delivering many benefits, including:

- Fast response and delivery, usually within 4 hours
- 24/7/365 call centre
- 24-hour clinical support from our team of Clinical Nurse Advisors
- 24-hour technical support
- Every product is delivered thoroughly decontaminated and is function and safety tested
- Installation and ward staff product training is supplied by Medstrom technicians who are City & Guilds qualified and DBS checked
- On-going training is supplied by our Clinical Nurse Advisors post-patient placement and throughout the product's use to ensure desired clinical outcomes are being achieved
- We offer a range of flexible financing options from daily rental to long term fixed period rental

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