

## MEDIGEL

Heel Therapy for  
Effective Pressure Relief



# MEDIGEL WITH HEEL THERAPY

## THE EVERYDAY PROBLEM FOR NURSES AND PATIENTS...

The burden of pressure and the dent it puts in every nurse's care-giving ability is something which every nursing staff is familiar with. Unrelieved pressure for as little as 2 hours can harm your patient by causing permanent tissue injury and subsequent tissue death.<sup>(1)</sup>

## HEEL FACTS

- Heel pressure ulcers account for 30.3% of total pressure ulcers and are the second most common site for skin breakdown.<sup>(2)</sup>
- Healing times for heel ulcers are very long, in many cases lasting over a year.<sup>(3)</sup>
- 11% of patients with ischaemic heel ulcers and gangrene have required amputation.<sup>(4)</sup>



**“Owing to the unique anatomy of the heel and impaired ability to reperfuse, the heel is a common site for deep tissue pressure ulcers”<sup>(5)</sup>**



Designed and Manufactured in Ireland

## THE SOLUTION?

MediGel can reduce the amount of pressure your patient is exposed to along with reducing the need for frequent repositioning of the patient due to its pressure redistributing qualities.

### 1. VISCO-ELASTICATED FOAM

Strong evidence from EPUAP supports the fact that an individual should be repositioned with greater frequency on a nonpressure-redistributing mattress than on a viscoelastic foam mattress.<sup>(6)</sup>

#### How Does Our Foam Work?

The industry leading, temperature-sensitive visco-elastic foam within the MediGel moulds to the exact contours of the body, actively re-distributing the patient's weight and pressure. This pressure-redistribution almost doubles the surface contact area, thus greatly reducing interface pressures.



**“An individual should be repositioned with greater frequency on a nonpressure-redistributing mattress than on a pressure redistributing viscoelastic foam mattress.”<sup>(6)</sup>**

### 2. GEL THERAPY FOR HEELS

#### What MediGel Therapy can do for Heel Pressure

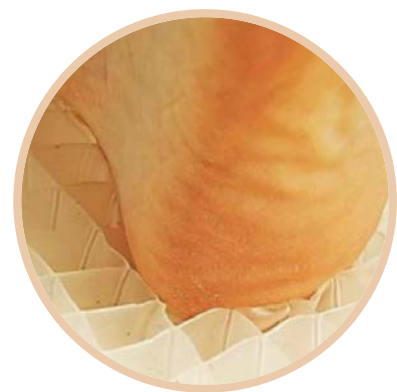
When perpendicular pressure is applied to the walls of the MediGel, the cubes buckle under pressure as they bend outwards. Pressure is dissipated so it reduces rather than builds up as with springs or high rebound foams.

MediGel has been proven to reduce pressure intensity.<sup>(7)</sup>

#### What MediGel Therapy can do for Microclimate

The human body is very sensitive to temperature change. An increase of just 2 or 3 degrees Fahrenheit can cause overheating and perspiration.

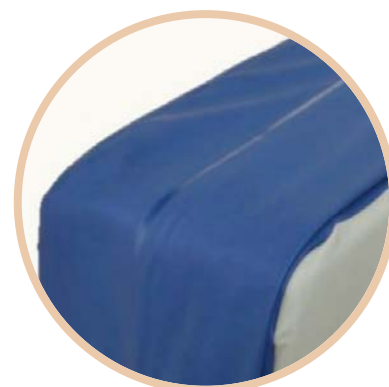
Maintaining an ideal microclimate at the heels is a key indicator of the ability of the skin and underlying soft tissue to withstand prolonged pressure. Directly improving the environment at the skin surface of the heels will directly affect the risk of pressure ulcer development.<sup>(8)</sup>



**Now, the revolutionary designed MediGel with integrated heel section helps combat excess heat and humidity by reducing temperatures in the heels by up to 3 degrees Fahrenheit. <sup>(9)</sup>**

## 2. MEDIGEL COVER

- Cover is multi-stretch polyurethane, and positively helps to reduce shear and friction forces, and dissipates heat and moisture
- 10,000ppm chlorine resistant
- Avoids a 'hammock effect' (see below)
- The only fire retardant cover currently available in the world which is Oeko-Tex Class 1
- Hydrolysis resistance 1 year + High weld strength performance
- Zip cover also has a toughened PU anti-slip coated base



### TECHNICAL SPECIFICATIONS:

- Fire Retardancy : Foam & fillings are in compliance with S.I. 1324 (crib 5 source 5 (I.S. 419) Finished Product Retardancy:
- Finished Product is compliant with B.S.7177 (Mattress Medium) – Hazard 0,1 + 5
- Long Term Performance : Lost less than 8% of hardness after 10 years stimulated rigorous hospital use and durability (120,000 cycles)
- User Weight Limit : 22 Stone
- Warranty: 5 Years. Copy of warranty upon request
- Quality : Manufactured under ISO9002 accreditation and is registered as a Class 1 CE medical product
- Dimensions : Standard 198x86x15cm
- Products can be manufactured to your dimensions

### REFERENCES:

- (1) Cervo FA, Cruz AC, Posillico JA: Pressure ulcers: Analysis of guidelines for treatment and management. *Geriatrics* 55(3):55–60, 2000.
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- (3) Theiman, GS, Oderich GSC, Ashrafi A, Schneider PA. Management of ischemic heel ulceration and gangrene: An evaluation of factors associated with successful healing. *J Vasc Surg*
- (4) Dosluoglu H, Attuwaybi B, Cherr G, Harris L, Dryjski M. The management of ischemic heel ulcers and gangrene in the endovascular era. *Am J Surg* 2007; 194: 600–05.
- (5) Salcido R, Lee A, Ahn C., Heel Pressure Ulcers:Purple heel and deep tissue injury. *Adv skin wound care* 2010; 24(8); 374-80
- (6) European Pressure Ulcer Advisory Panel and National Pressure Ulcer Advisory Panel. Prevention and treatment of pressure ulcers: quick reference guide. Washington DC: National Pressure Ulcer Advisory Panel (2009).
- (7) Independent Pressure testing on MediGel completed by Dr. Duncan Bain, UK (2013)
- (8) Reger SI, Ranganathan VK, Sahgal V. Support surface interface pressure, microenvironment, and the prevalence of pressure ulcers: an analysis of the literature. *Ostomy Wound Manage* 2007; 53(10): 50-8.
- (9) Information provided by manufacturer

At Meditec Medical, we are committed to enhancing patient care, through our cutting edge therapeutic support surfaces and dedicated service. We support healthcare professionals and their patients with effective solutions that treat and prevent pressure ulcers. Our Research and Development Team work hand in hand with our customers to design and manufacture pressure relieving mattresses and related products.

**Talk  
to  
us:**



Please call us now at: **01 462 4045** or email: **info@meditecmedical.com**