

IF YOU LOOK DEEPLY ENOUGH,

A COMPLEX

**WOUND CARE
PROBLEM**

CAN BE SOLVED WITH A

SIMPLE ANSWER.

THE ROHO® DRY FLOATATION® MATTRESS SYSTEM

CROWN®
THERAPEUTICS, INC.

The promise of discovery™



LOOKS CAN BE DECEIVING.

That certainly rings true for the ROHO® DRY FLOATATION® Mattress System.

Its simplicity of design and function would seem to imply limited therapeutic application. More and more, however, patients and clinicians alike are discovering the true range of application and outstanding therapeutic capabilities of the ROHO DRY FLOATATION Mattress. After all, ROHO technology has been providing solutions to wound care problems for more than 20 years.

Comprised of rows of soft, interconnected, air-filled cells, the ROHO Mattress conforms precisely to the contours of the body, providing "passive compression therapy" against the skin. This allows for enhanced blood flow to the wound site, maximizing the healing process.

The features of the ROHO Mattress provide performance and efficiency that are unequalled in the industry.

NON-POWERED:

There is no electrical hookup, leaving no chance for malfunction and no hidden costs.

ADJUSTABLE:

The three inch high air cells can be easily adjusted to shape and conform to your patient's body, regardless of patient weight, providing a total contact environment ideal for facilitating wound healing.

ZONED:

Each of the four sections that comprise the Mattress can be adjusted to address the specific needs of your patient's body shape and size.

LIGHTWEIGHT:

Weighing only eight pounds per section, or 32 pounds for a complete system, the ROHO Mattress is easily portable.

CONTINUITY OF CARE:

The ROHO Mattress can be used to treat a multitude of diagnoses in a variety of care settings, from acute care, to long-term care, to home care. Plus, ROHO DRY FLOATATION technology encompasses a full range of cushions, mattresses and accessories, giving your patients total continuity of care with the same technology from a single source.

There's definitely more to this Mattress than meets the eye.

SOLVING YOUR BIGGEST SKIN PROBLEMS.

All things considered, the patient is always the most important part of the wound care equation. Their care can't be compromised, so neither should their mattress system. Each feature of the ROHO DRY FLOATATION Mattress serves an important purpose, transforming the problems associated with extended lying or sitting into solutions that eliminate compromised blood flow and the resulting effect of tissue breakdown.

PROBLEM

TISSUE DEFORMATION:

A primary cause of ischemic ulcers is decreased blood flow as a result of tissue deformation.

EDEMA:

Wound healing cannot occur without proper cell nutrition and oxygenation to meet metabolic needs. Metabolic activity is impaired by the presence of edema.

VASOCONSTRICTION:

Low local or body temperature reduces the metabolic rate and may cause vasoconstriction which decreases perfusion.

DEHYDRATION OF THE WOUND BED:

Support surfaces which provide air flow tend to dehydrate the wound bed.

SHEARING:

Skin shear which results in angulation of blood vessels decreases blood flow. Shear forces generated when the body slides on a bed surface contribute to skin breakdown in compromised and immobile patients.

SOLUTION

DEFORMATION RELIEF:

Low pressure distribution is achieved through ROHO DRY FLOATATION technology. The ROHO DRY FLOATATION Mattress consists of four sections, each of which is independently adjusted and balanced to the patient.

When the patient is properly immersed in the Mattress, ROHO DRY FLOATATION technology provides a low pressure environment over the entire contact area of the body. The ROHO DRY FLOATATION Mattress conforms so that the patient's soft tissue does **not** deform.

COMPRESSION THERAPY:

The support surface conforms to the body without deforming tissues and provides compression therapy without ischemia. Efficiency of nutrient and oxygen exchanges are enhanced by the transfer of interstitial fluids away from the pressure sites. As fluids are moved away from the pressure sites, the ROHO DRY FLOATATION Mattress continues to adjust itself and conform to the patient with even, low pressure distribution.

INCREASED BLOOD FLOW:

Using laser doppler velocimetry in a year long study¹, it was proven that blood flow increased at least four times the base line value while the patient was immersed in the ROHO DRY FLOATATION Mattress.

SUPPORT HYDRATION:

The ROHO DRY FLOATATION Mattress does not blow air over the skin surface. Blowing air against the patient's skin can dry out and desiccate the wound bed. ROHO DRY FLOATATION technology is compatible with moist wound healing principles and with dressing and bandaging techniques, which encourages granulation.

TRUE FLOATATION:

The cells in the ROHO DRY FLOATATION Mattress provide a high resolution surface to support the patient with evenly distributed low pressure. Instead of a single membrane supporting the patient, there are interconnected cells, each of which conforms to the patient without increasing pressure at any one site. Each soft and stretchable cell is designed for six degrees of freedom – movement in any direction – and is specially treated to minimize friction and resulting shear.

¹ less than 28mm Hg

² Jacobs, Mary Ann, MSN RN

³ "Comparison of Capillary Blood Flow Using a Regular Hospital Bed Mattress, ROHO[®] Mattress, and Medicus." *Rehabilitation Nursing* 14:5 (September/October 1989).

MAKING YOUR JOB EASIER.

We also want to ensure that you, as the clinician, have all the bases covered. The ROHO DRY FLOATATION Mattress was designed to address your comprehensive needs, including everything from storage to continuity of care, giving the ROHO Mattress distinct advantages over other equivalent technologies.

FEATURE ADVANTAGES

- Does not use electricity.
- Modular.
- Lightweight.
- Has no patient weight limit.
- Has 720 air cells for pressure redistribution (allows for more conformity for better results).
- Drainage holes in base are standard to pull moisture away from the patient.
- Service and clinical support.

CARE ADVANTAGES

- May be used in any clinical setting.
- Can be used in the home setting, allowing earlier institutional discharge of some patients.
- Does not require a hospital bed for home patients.
- Fourth zone is ideal for the healing of heel pressure ulcers.
- Does not blow air against the skin.
- Can be used for a variety of diagnoses.
- Can be adjusted to address individual patient's needs, body shapes, and sizes.
- Provides therapy while patient is sitting in a chair.
- CPR can be performed on the ROHO Mattress without having to deflate or remove product from bed.
- Provides prevention and therapeutic coverage through stage IV ischemic ulcers, also myocutaneous flaps and grafts.
- No storage required for hospital use.

SAVING MORE THAN YOUR PATIENT'S SKIN.

A mattress that can solve your biggest wound care problems and save you money? It's true. Being therapeutic, yet entirely non-powered, makes the ROHO Mattress one of the most cost effective mattresses you can buy. Use the table below to calculate the additional monthly electric costs incurred when using powered mattress alternatives.

FORMULA FOR DETERMINING ELECTRIC COST:

1	Electrical Consumption in Watts Per Hour (watts can be computed by taking volts times amps)
2	Divide Step 1 by 1000 to determine kilowatts per hour
3	Take Step 2 times 24 to determine kilowatts per day
4	Take Step 3 times 30.4 to determine kilowatts per average month
5	Enter the cost per kilowatt based on service area, type of customer and utility company
6	Take Step 4 times Step 5 to calculate electrical cost per month

In addition to variability in the cost of the product, support surfaces include both non-powered and powered technologies. When a powered product is provided, an additional expense that the patient or institution would incur relates to electric consumption. This expense is not reimbursed by Medicare and can vary widely based on the product selected¹.

The ROHO® DRY FLOATATION® Mattress System is covered under the E0371 reimbursement code for Medicare B patients. Under the Medicare program, decisions on how to code a particular product are solely the responsibility of the Medicare Provider. In addition, Medicare coding and coverage criteria are subject to change. A supplier should contact their respective OMERG to verify how any product should be coded.

¹ Weaver, Vickie, RN, MSN, CEN, and David McCausland.
"Revised Medicare Policies for Support Surfaces: A Review."
Journal of WOCN (January 1998): pgs. 30, 34.

CREATING THE IDEAL HEALING ENVIRONMENT.

ROHO DRY FLOATATION technology was designed to be the body's partner in the healing process. Comprised of four principles, ROHO DRY FLOATATION technology sets the standard for all cushions and support surface products, creating the ideal healing environment for patients suffering from tissue trauma and ischemic ulcers.



THE FOUR PRINCIPLES OF DRY FLOATATION TECHNOLOGY

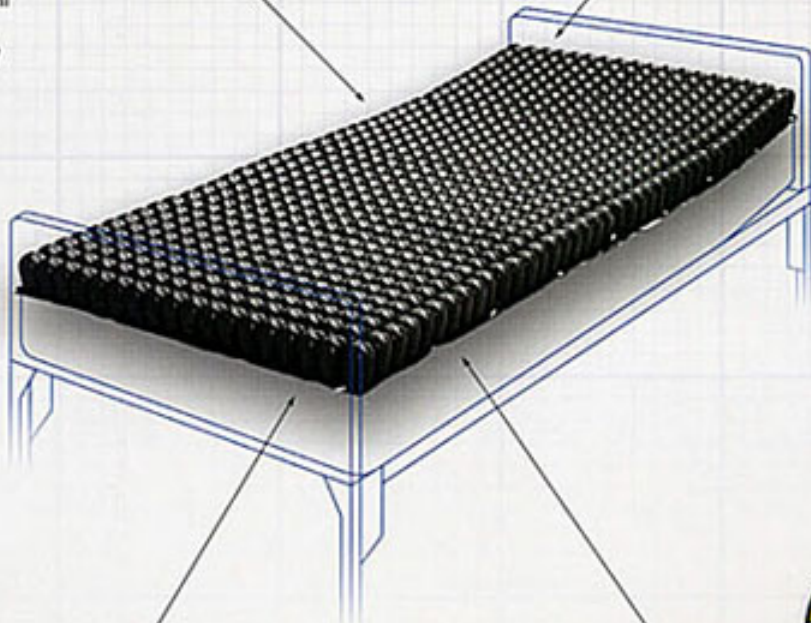


SIX DEGREES OF FREEDOM:

ROHO cushions are constructed of individual cells that move independently, allowing each cell to twist, turn, bend, move up and down, and adapt precisely to the contours and anatomy of the patient.

LOW SURFACE TENSION:

The unique cellular design allows for immersion into the cushion without deforming tissue, minimizing the chance of skin breakdown.



CONSTANT RESTORING FORCES:

When a patient is immersed in a ROHO DRY FLOATATION product, the forces and pressures pushing back are kept equal at all points. As the body is immersed, greater contact area is achieved for dispersion of pressure. Thus, the pressure on any one area is minimized.



LOW FRICTION AND SHEAR:

As a result of the three previous principles, DRY FLOATATION technology provides a low friction and low shear environment. Friction acts to oppose the direction of motion, or impending motion. Shearing occurs when opposite, but parallel forces meet. The outcome inhibits blood flow. The slick surface of the ROHO cells combined with the independent movement of each cell greatly reduces friction and shear as clients move.

BUILDING UPON YEARS OF EXPERIENCE.

ROHO DRY FLOATATION technology is the result of more than twenty-five years of research and development providing solutions for the treatment of ischemic ulcers and for the many problems associated with mechanical support surfaces used in wound management.

ROHO DRY FLOATATION technology provides a support environment which facilitates the wound healing process. Our products are engineered to complement excellent nursing care and are not intended to substitute for good nutrition or nursing care.

PROVIDING THE SUPPORT YOU NEED.

The ROHO DRY FLOATATION Mattress is produced with the highest level of quality and workmanship standards. Specifically, ROHO, Inc. has received ISO 9002 certification.

Supporting the reliability and effectiveness of the product is a network of service providers dedicated to prompt, efficient, and understanding service, unparalleled in the industry.

For more information on how your tissue viability problems can be solved with CROWN THERAPEUTICS, speak with your service representative, or call us directly to speak with an ET on staff or one of our regional support surface specialists.

If you require supporting technical information and/or case studies involving the DRY FLOATATION Mattress, we'll be happy to supply you the information you need.

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www.crownthera.com



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