

V.A.C.® Therapy Dressings Designed for better wound care

Specialised dressings to cover all your wound care management needs
There are a variety V.A.C.® Therapy dressings to make dressing application more fast and effective for even the most awkward areas of the body.

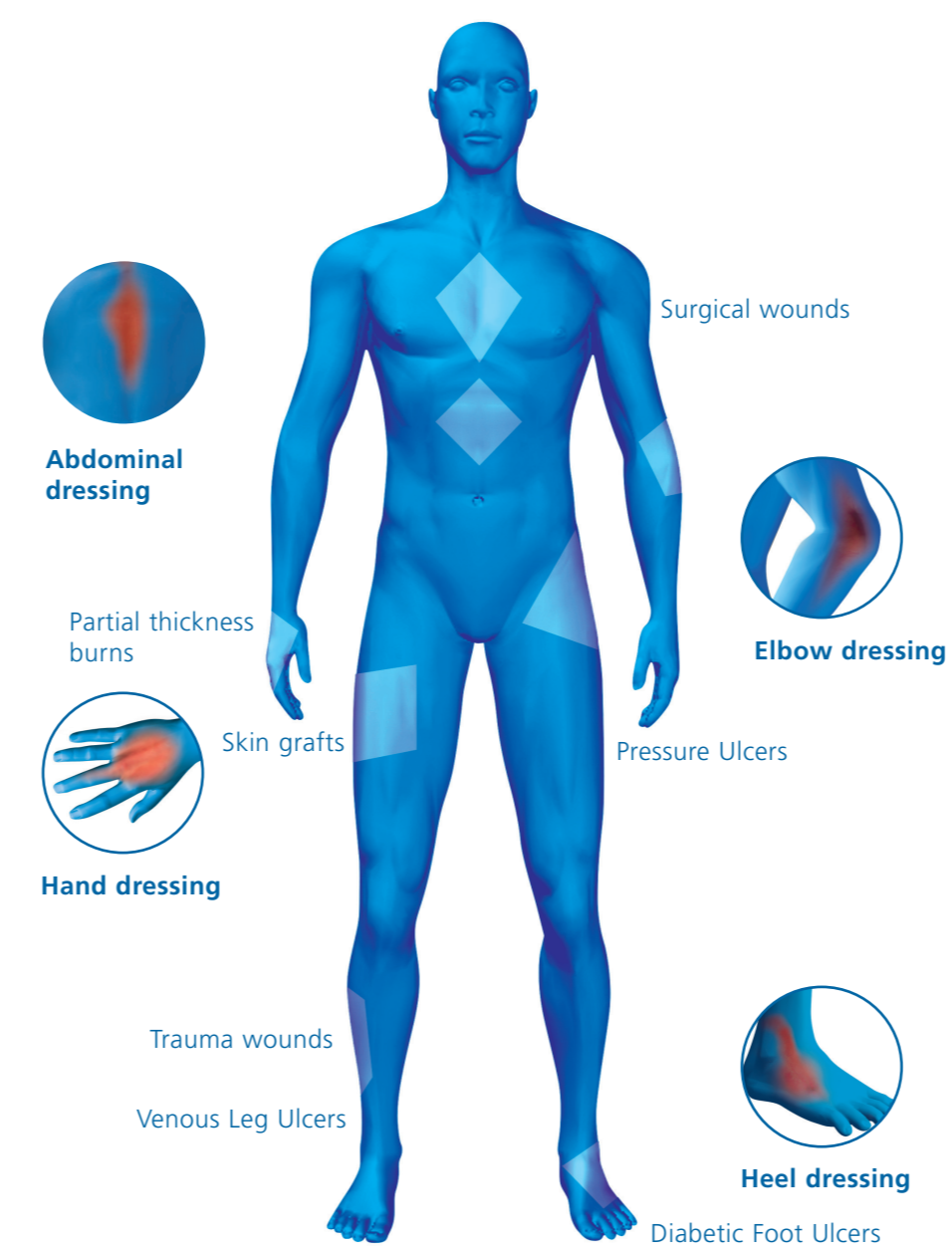
V.A.C.® Therapy indications: Chronic wounds (pressure ulcers and diabetic wounds), sub-acute wounds (surgical dehiscence, abdominal) and acute wounds (traumatic wounds, partial-thickness burns, flaps and grafts).

V.A.C.® Therapy contraindications: Contraindicated for patients with malignancy in the wound, untreated osteomyelitis, non-enteric and unexplored fistulae, or necrotic tissue with eschar present. Do not place V.A.C.® Dressing over exposed blood vessels or organs.

V.A.C.® Therapy precautions: Precautions should be taken with patients with active bleeding, difficult wound haemostasis, or who are on anticoagulants. Follow Universal Precautions. When placing the V.A.C.® Dressings in proximity to blood vessels or organs, take care to ensure that they are adequately protected with overlying fascia, tissue or other protective barriers. Greater care should be taken with respect to weakened, irradiated or sutured blood vessels or organs. Bone fragments or sharp edges could puncture a barrier, vessel or organ. Wounds with enteric fistula require special precautions in order to optimise V.A.C.® Therapy. Refer to the KCI V.A.C.® Therapy Clinical Guidelines for more user information.

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NEGATIVE PRESSURE WOUND THERAPY

The Integrated V.A.C.® Therapy System

Acute
 Trauma wounds.
 Partial-thickness burns.
 Open abdominal wounds.
 Surgical dehisced wounds.
 Flaps and grafts.

Chronic
 Diabetic Ulcers.
 Pressure Ulcers.
 Venous Leg Ulcers.

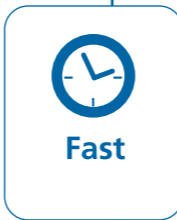
Designed for better wound care

Each component in the V.A.C.® (Vacuum Assisted Closure) Integrated Therapy System has been engineered to interlink precisely with the other elements. The available choices give healthcare professionals the freedom to select an optimum combination of components and address a vast array of different wound care challenges.

This flexibility is demonstrated in a choice of 3 different dressing types, each using a differing advanced technology to deliver better wound care across various tissue types and changes in the wound healing process.

Delivering better results

The V.A.C.® Therapy System dressings bring clinically proven benefits when compared to using advanced wound dressings and gauze.^{1,4}



From the outset, ease of use and functionality have been designed into each product in the dressing range.



Effective in 3 proven ways:

- Macrostrain (a visible alteration that occurs when applied negative pressure contracts the specialist dressings) draws the wound edges together and promotes wound healing.^{1,6}
- V.A.C.® GranuFoam® Dressings demonstrated a 3 times greater fibroblast migration than gauze.^{3,5}
- Microstrain leads to cell stretching which promotes granulation tissue formation.^{2,5}



Pre-cut drapes, various size options, anatomically shaped variants and intelligent SensaT.R.A.C.® Technology all promote greater patient comfort.



By reducing both overall healing and nursing time required for each dressing change, the integrated V.A.C.® Therapy System demonstrably reduces overall treatment cost and nursing expenses and reduces overall treatment cost.^{4,6}

Dressings to cover all your wound management needs

A range of V.A.C.® Therapy dressings has been developed to ensure that the optimum dressing is available for patients who are presenting with different wound management needs; for every tissue type as well as each stage in the wound healing process.

V.A.C.® GranuFoam® Dressing



Formulated to promote healing of moderate to deep wounds and for heavy to medium levels of exudation.

V.A.C.® WhiteFoam Dressing



Designed to promote healing of granulating and epithelialising wounds, for shallow and superficial wounds, lightly exuding wounds and for exposed bone, fascia, tendon and muscle (and painful wounds). Also recommended for wounds of neonates, infants and children.

V.A.C. GranuFoam Silver® Dressing



Engineered to manage infected and critically colonised wounds and for wounds at risk of infection.

⁴ Armstrong D.G, Lavery L.A., Negative Pressure Wound Therapy after partial diabetic foot amputation: a multicentre, randomized controlled trial, *Lancet* 2005; 366:1704-1710.

⁵ Greene, A.K., et al. Microdeformational Wound Therapy: Effects on Angiogenesis and Matrix Metalloproteinases in Chronic Wounds of Three Debilitated Patients, *Annals of Plastic Surgery*, April 2006, Vol. 56, No.4; p 418-22.

⁶ McNulty A. et al. Effects of negative pressure on cell vitality and migration, abstract presented at SAIWC, April 20 – May 1, 2007, Tampa, Florida.

⁷ Moulis C.M., van den Berd G-J.C.M., Meerding W.J., Hovius S.E.R. An economic evaluation of the use of TNP on full-thickness wounds. *Journal of Wound Care* 2005; 14: 224-227.

⁸ Saxena V. et al. Vacuum assisted closure: microdeformations of wounds and cell proliferation, *Plast. Reconstr. Surg.* 2004; 114 (5) 1086-g6.

⁹ Vuerstaek, J. D. D., Vainas, T., Thissen, C. A. C. B., Wuite, J., Van Der Kleij, J. A. M., Welemans, P., Neumann, M. H. A., Steijlen, P., and Versart, J. C. J. M. State-of-the-art treatment of chronic leg ulcers: Assessing the role of Vacuum Assisted Closure (V.A.C.®) in wound healing. *Journal of Vascular Surgery*, November 2006.

V.A.C.® Therapy Dressings

Integrated System for V.A.C.® Therapy

A range of V.A.C.® Therapy dressings has been developed to ensure that you have the optimum dressing for patients who are presenting different wound management needs and for each stage in the wound healing process.

Addressing your treatment needs

Chronic and acute wounds can be complex and difficult to heal. Each one presents itself with specific treatment requirements.

For that reason, the range of V.A.C.® Therapy foam dressings employs 3 different advanced technologies depending on the wound and tissue type and wound healing objective.

V.A.C.® GranuFoam®

- Promotes granulation tissue formation⁷⁻¹⁰ – with an open reticulated pore size of 400-600 micrometres, for best results.
- Facilitates exudate removal – using a hydrophobic, open-pore structure.
- Ensures an equal distribution of the negative pressure at the wound site.
- Adapts to the contours of deep and irregularly shaped wounds – designed for flexibility.



V.A.C.® GranuFoam®

There are multiple shapes to choose from depending on the wound: with small, medium, large and extra large sizes. V.A.C.® GranuFoam® is engineered from an open, reticulated polyurethane (PU) material.

V.A.C.® WhiteFoam

- Ideal for wounds with tunnelling or undermining – high tensile strength.
- Helps protect delicate underlying structures.
- A more comfortable dressing change – micro-porus material restricts in-growth of granulation tissue.
- Promotes graft and flap survival⁸ – non-adherent material.
- A comfortable advanced wound dressing.



V.A.C.® WhiteFoam

Two dressing sizes to choose from depending on the wound: small and large. V.A.C.® WhiteFoam is engineered from a micro-porus, polyvinyl alcohol (PVA) material.

V.A.C.® WhiteFoam

- Ideal for wounds with tunnelling or undermining – high tensile strength.
- Helps protect delicate underlying structures.
- A more comfortable dressing change – micro-porus material restricts in-growth of granulation tissue.
- Promotes graft and flap survival⁸ – non-adherent material.
- A comfortable advanced wound dressing.



V.A.C. GranuFoam Silver®

- Rapid and effective microbial kill¹¹ – with a continuous delivery of active silver ions to the wound bed.
- The proven benefit of Negative Pressure Wound Therapy plus the advantages of silver ions.
- Inactivated micro-organisms can be removed with the wound fluid.
- Direct and complete contact with the wound bed even after sizing.



V.A.C. GranuFoam Silver®

There are multiple dressing sizes to choose from depending on the wound: small, medium and large sizes.

⁷ Armstrong D.G., Lavery L.A., Negative Pressure Wound Therapy after partial diabetic foot amputation: a multicentre, randomized controlled trial, *Lancet* 2005; 366:1704-1710.

⁸ Vuerstaek, J. D. D., Vainas, T., Thissen, C. A. C. B., Wuite, J., Van Der Kleij, J. A. M., Nelemans, P., Neumann, M. H. A., Steijnen, P., and Veraart, J. C. J. M. State-of-the-art treatment of chronic leg ulcers: Assessing the role of Vacuum Assisted Closure (V.A.C.®) in wound healing. *Journal of Vascular Surgery*; November 2006.

⁹ Charles K. Field et al. Overview of Wound Healing in a Moist Environment. *American Journal of Surgery*, 1994.

¹⁰ Joseph E., Hamori CA., Bergman S., Roaf E., Swann N., Anastasi G. Prospective Randomized Trial of Vacuum-Assisted Closure versus Standard Therapy of Chronic Non-healing Wounds. *Wounds*, 2000; 12(3): 60-67.

¹¹ Representative microbial in-vitro test data; KCI internal data on file.

The Integrated V.A.C.[®] Therapy System

Integration for ease of use

The Integrated V.A.C.[®] Therapy System is a proven, non-invasive, advanced approach to wound healing. The System uses an intelligent therapy unit to deliver controlled negative (sub-atmospheric) pressure to the wound site. Specialised foam dressings, applied to the wound site, ensure that fluid is continuously drawn away from the wound and SensaT.R.A.C.[®] Technology manages the equal distribution of pressure across the wound area.

“The interface foam dressing may actually be critical in the transmission of pressure”

Ref: Banwell P, Teot L (2006): Topical negative pressure (TNP): the evolution of a novel therapy, Journal of Tissue Viability; 16(1): 1.

