Principelle MATRIX

Next Generation Composite Wound Dressing

Based on Pro-ionic® Wound Care Technology A new platform technology built on the modulation of proteins and ions

Ordering Principelle Matrix dressings

Product type	Quantity	Size	Order number
Principelle Matrix	10 dressings	10 x 10cm	PPM1010
Principelle Matrix Border	10 dressings	10 x 10cm (Island 6.8x6.8cm)	PPM1010B

Principelle Matrix contributes to Quality of Life:

- Powerful tool for pain reduction
- Reduction in wound odour
- Reduction of risk of maceration
- Super absorbency (greater absorbency than equivalent sized alginate dressing)

Principelle Matrix assists with the re-establishment of balance in the wound micro-environment through:

- Modulation of small ions (sodium, potassium, calcium, magnesium)
- Modulation of proteins (uptake and activity of for example, proteases)



Principelle MATRIX



product developers and partners manufacturing products for sale under our brand names.

Please visit us at www.principelle.com

Chronic wounds are stuck in a non-resolved cycle arising from imbalances in the levels and activity associated with moisture, proteins, ions and bacteria.

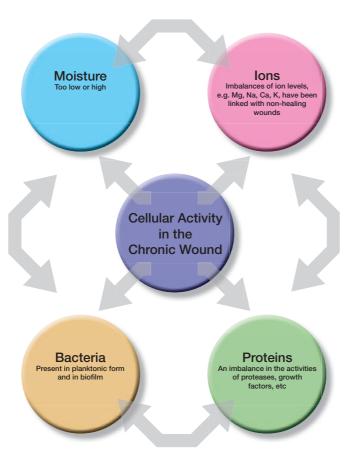
Through biomimetics to bioactivity

Nature inspires! Look at how nature deals with problems and use this as a template for man-made synthetic analogues. The principle of using biochemical engineering to maximise biocompatibility levels has been used for years in the field of implantable medical devices, but has not been fully exploited in the design of frontline wound dressings.

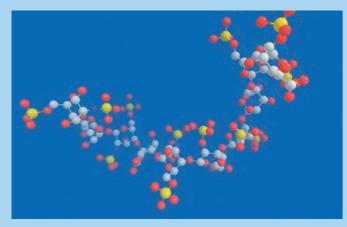
Principelle Matrix dressings with biointeractive properties, mimicking the behaviour of highly sulphated glycosaminoglycans (HSGs) that modulates proteins and ions.

HSGs have a number of functions including:

- Growth factors and cytokines stabilisation
- Protease regulation
- Inflammation modulation



Molecular Models demonstrating bio-mimicry of Pro-ionic® Polymers (hydrogen atoms are not shown).



Naturally-occurring Sulphated Glycosaminoglycan found on cell surfaces and in the Extracellular Matrix

Carboxylate Chemistry - used in typical polyacrylate dressings, fiber dressings and alginates.

Red = oxygen atom Grey = carbon atom Yellow = sulpher atom Blue = nitrogen atom

iCare - Intelligent Care

To nurse and to care are verbs. Extending the caring nurse requires effective, prolonged intervention beyond the caring hands. Modulating biochemical components and processes over a prolonged time ensures maximum benefit from each dressing change. It is a challenge to build nursing care into each product. Principelle aims to develop intelligent care/product combinations to coach wounds through different stages of healing.

Moisture Management

Since most frontline modern wound dressings are designed to offer either hydration or absorption, the clinician is frequently forced to compromise between speedy wound bed preparation and effective moisture balance.

Pro-ionic Matrix is a partially-hydrated superabsorbent copolymer dressing. Its unique design gives it an unparalleled breadth of ability to behave both as a hydrating and absorbing dressing. It has been formulated to closely mimic the water activity of

It encourages wound bed preparation, yet is still able to cope with moderate levels of exudate. In high exuding scenarios it outperforms foams as a secondary absorbing dressing behind fibrous primary dressings.

The result is a uniquely versatile and cost-effective wound dressing.

iCare - Intelligent Care: Quality of Life

Principelle Matrix offers clinicians an attractive tool for reducing pain in chronic wounds and during dressing change. A moist environment has a positive effect on inflamed tissue and nerve endings. Additionally, the dressing is soothing upon application.

Maceration and Odour

Principelle Matrix dressings have excellent structural integrity when exposed to exudates and holds exudates within the wound margin. This reduces the risk of maceration, helping to minimise wound odour

iCare - Intelligent Care: Product Positioning

The dressing has been designed specifically to encourage wound bed preparation, granulation and subsequent epithelialisation of chronic wounds. Whilst in progress, this does not compromise effective moisture balance. It is perfectly capable of maintaining moisture balance in combination with compression therapy.

Principelle Matrix can be used for acute and chronic wounds. It may be used on moderately-exuding, lightly exuding and dry wounds. The dressing can also be used on highly exuding wounds, though this will reduce the effective wear time. Principelle Matrix Border including a skin friendly border for fixation is indicated for long-term wear.



Pro-ionic Polymer - mimics the molecules used by the body to regulate important wound healing processes.

