Patient Stories

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**Introduction**

Moist wound healing has been proven to heal the majority of chronic wounds at minimal cost to the health system. Posnett et al (2008) showed that over 80% of chronic wounds would heal within a predicted timeframe at an average cost to the system of around £1900, whilst a small number of wounds prove hard to heal costing between £31,000-£42,000 to heal.

In 2014, we were approached by Genadyne Pharma to try their new product Nanogen Aktiv. The challenge was to use it on our most difficult wounds. Once we had tried the product and saw that it stimulated the healing of a very difficult ‘static’ wound, we decided to expand the usage and to undertake an evaluation on an initial TEN patients which was then extended to TWENTY patients, all with HARD TO HEAL chronic or complex wounds.

Nanogen is a plant based collagen, manufactured from plant stem cells, that has the ability to mimic the Extra Cellular Matrix (ECM) in the wound. Nanogen functions in the same way as other collagen based products to stimulate fibroblast and cellular migration and encourage the deposition of newly formed tissue ie granulation. The other components in Nanogen Vitamin B,C,D,E,K: Biotin, hydroxyproline and proline, are used as enzyme substrates that are catalysts in many biochemical processes in the healing of wounds. Because of the nano size particles there is an added benefit of cell signalling to the natural microcellular environment.

**Discussion**

The application of Nanogen Aktigel to the Peri-wound area resulted in a pinker, healthier, more robust peri-skin.

Even after just one week of treatment with Nanogen Aktiv the wound usually changes in colour, size and increase in exudate, giving confidence that the wound is responding to the treatment, even in wounds that have been static for months. The patient can also see this obvious improvement. After the first application of Nanogen Aktiv membrane most patients reported a rapid reduction in wound pain. So much so that many patients requested to continue with the Nanogen Aktiv alongside the MWH products until healing was complete.

**Conclusion**

Nanogen Aktiv does have a significant effect on kick starting HARD TO HEAL (NON HEALING) wounds, that previously had a history of only being maintained. It mimics the wound ECM and stimulates epithelialisation and improves inter cellular signalling/communication, both of which have been shown to be critical in stimulating the healing of stalled chronic wounds. It is unequivocally cost effective, healing wounds as opposed to maintaining wounds.

In practice we have found that a two week course of Nanogen Aktiv followed by the Nanogen Aktigel proves most effective for healing with the added benefits of a better cosmetic result. It improves patient concordance by reducing pain and providing hope to patients who have endured these chronic wounds for excessive periods of time. This has a massive positive impact on the quality of life of these patients.

If you have problem with non-healing chronic wounds, why not give the magic paper a try?!!