

Helicoll[®] intervention could make Negative Pressure Wound Therapy (NPWT) more Effective



Advanced Tissue Regenerative Membrane for Skin Burns, Wounds and Ulcers

Helicoll

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Significance of Negative Pressure Wound Therapy (NPWT)

Main objectives of NPWT:

- (1) Exudate Control
- (2) Cell/Vasc. migration by NP

Problems to address & solutions:

1. A synthetic foam to contact the Wound surface may NOT be ideal: Polymeric sponge (open-pore PU black or green foam or a white PVA (Fig. 1)) do not encourage TISSUE REGEN to heal faster. To resolve: Apply Helicoll like bio-compatible membrane between the wound and the adsorbent synthetic foam (Fig. 2)
2. Usage of holed membranes may allow passage for more microbes. To resolve, make Scalpel slits to minimize the number of invading germs at required places alone. Further this act as a natural valve. (Fig 3).
3. Changing the dressing every 2 to 3 days disturbs the cells resulting in delayed healing. To resolve, use Helicoll like biocompatible/bioactive membrane with proper slit openings.

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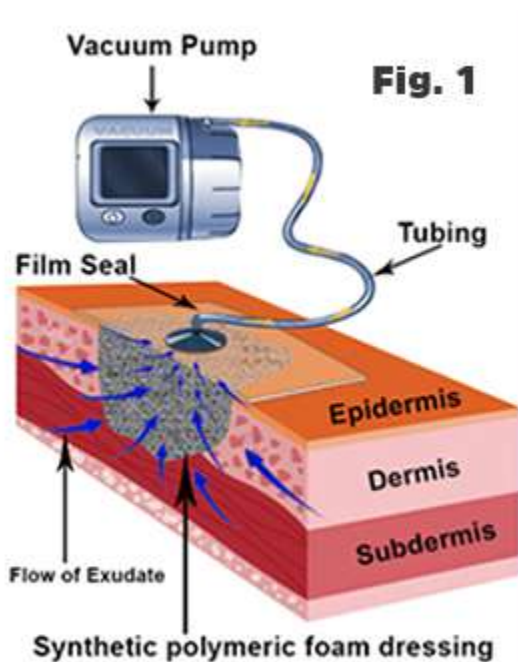


Fig. 1

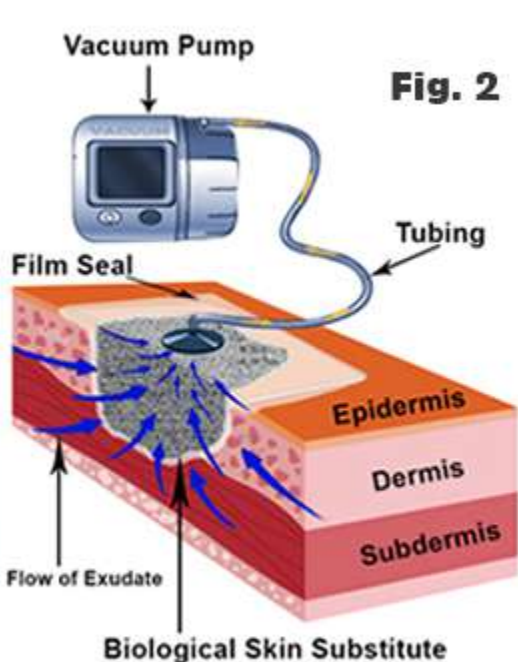


Fig. 2

Fig. 1. Currently used NPWT application method

Fig. 2. NPWT Method Combined with Advanced biological skin substitute

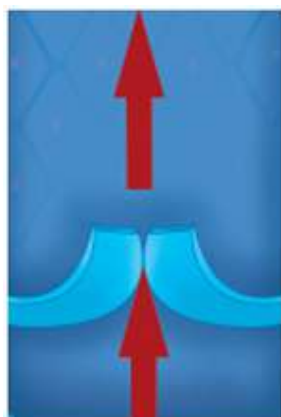


Fig 3: Unidirectional flow of exudate via slit opening on the membrane

Conclusion: Helicoll like tissue regen matrix intervention in NPWT may be an ideal treatment for better clinical results that offers the following functions:

- * minimizes the exudate
- * slits (Fig. 3) are better than holes to reduce microbe invasion
- * lets the drainage pass through the overlaid foam
- * makes healing faster compared to a foam contact (Fig. 2)

Helicoll's efficacy:

Brings new blood capillaries within 4 to 5 days !

Manufacturing/Technology:



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