

- Title** Negative Pressure Wound Therapy (Renasys Go Console Package)
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Aim

To assess the efficacy/effectiveness, safety, and cost-effectiveness of negative pressure wound therapy (Renasys Go) for wound healing.

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Conclusions and results

There was good level of evidence retrieved to show that negative pressure wound therapy was effective to accelerate wound healing in diabetic foot. However, negative pressure wound therapy for other wounds such as pressure ulcer, venous leg ulcer, necrotising fasciitis, grafts and burn were inconclusive and require more high quality evidence. While considering other costs involved and hospital stay, the NPWT may be cost-effective compared to conventional method. However, adverse events related to NPWT must be taking into consideration while practicing the therapy. Besides, homemade NPWT compared to commercial one may reduce the cost.

Recommendations (if any)

Negative pressure wound therapy can be recommended for accelerating wound healing in diabetic foot. However, for other wounds such as pressure ulcer, venous leg ulcer, necrotising fasciitis, grafts and burn was recommended for research purposes.

Methods

Electronic databases were searched through Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R) 1948 to present, EBM Reviews - NHS Economic Evaluation Database 4th Quarter 2012, EBM Reviews - Cochrane Database of Systematic Reviews 2005 to December 2012 and EBM Reviews - Cochrane Central Register of Controlled Trials December 2012. Searches were also run in PubMed, Horizon Scanning databases, FDA website, INAHTA, CADTH, ASERNIP-S and KCE for published reports. Only studies published within 2000 to 2013 were included in this technology review report.

Further research/reviews required

Demand for negative pressure wound therapy in general practice is increasing; however, evidence about its benefits, and safety particularly relating to adverse events is yet to be determined.