

## Debilitating chronic veno -lymphoedema: using a muscle pump activator medical device to heal wounds and improve skin integrity

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### Abstract

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#### Overview:

This case study describes the experience of adding a muscle pump activator medical device (geko™, Firstkind) to the care of a 66-year-old male with veno-lymphoedema and chronic renal failure, causing lower leg blistering resulting in wounds. He had received daily or twice daily dressing changes with frequent infections for 5 years, with bilateral amputation and hemodialysis predicted as eventual outcomes. Instead, his episodes of blistering with open wounds reduced, along with accelerated healing, a reduction in fibrotic oedema and a return to more normal skin integrity. His mobility and ankle range of motion rapidly increased. Additionally, his renal function improved during the treatment, with a reduction in serum creatinine to the point that hemodialysis was no longer being considered. The improvements in his skin integrity and level of pain, reduction in the incidence and severity of infections, increase in mobility, and activity and general quality of life were remarkable and unprecedented in our experience caring for patients with veno-lymphoedema.

#### Evaluation Results:

Please [click here](#) to view the evaluation results.