(CS-074) USE OF AN ULTRA-PORTABLE NEGATIVE PRESSURE WOUND THERAPY (NPWT) PUMP AT HOME FOR TREATMENT OF A COMPLEX, SUB-ACUTE, NECROTIZING FASCIITIS WOUND OF THE UPPER BACK

BACKGROUND

This case study highlights the effective use of a personal, ultra-portable NPWT device* to treat a complex, sub-acute necrotizing wound on the upper back, utilized while the patient remained home. This case study stems from a larger prospective, non-randomized, interventional study (poster CR-013). The goal is to share the benefit of treatment with an ultra-portable NPWT device* of a complex, sub-acute, necrotizing wound of the upper back.

METHODS

Primary Objective:

 Reduce volume of a complex sub-acute necrotizing wound during home treatment.

Secondary Objective(s):

- To demonstrate the overall wound response to this NPWT device.
- To discuss clinician input on device performance and function.

Necrotizing fasciitis is a potentially lethal soft tissue infection, resulting in extensive necrosis of the fascia, skin and sometimes muscle. Effects can be systemic and it progresses rapidly if not quickly and properly assessed immediately, followed by appropriate treatment and close monitoring of the necrotizing wound. The initial treatment is urgent surgical debridement with the interventional goal of stabilizing the wound by reaching viable tissue. Once stable, adversities commonly include amputation and/or massive wounds that are challenging to close. Treatment of these large complex wounds often includes the use of NPWT to assist in closure ([1], [2]).

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NPWT system* with dual lumen suction drain**





RESULTS

Conventional choice of a larger "inpatient" NPWT device for this complex wound was deemed not appropriate and dismissed. The successful treatment of this complex case employed the use of a full featured ultra-portable NPWT device* with dual lumen suction drain**, which easily met the goals of therapy. After 2 weeks of NPWT, wound volume decreased by 94% for closure by split thickness skin graft.





CONCLUSION

Successful use of the ultra-portable NPWT device* with dual lumen suction drain** was demonstrated in this case. In addition to meeting the clinical requirements and clinician satisfaction, the personal use NPWT device* is cost-effective, safe to use, and reliable in the treatment of this complex, sub-acute, necrotizing fasciitis wound.

NOTES

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Product notation: *Invia[®] Motion[™] NPWT system/Invia[®] NPWT Dressings | **Invia[®] FitPad Acknowledgements: The support of Medela AG (Laettichstrasse 4b, 6340 Baar, Switzerland) for this project is gratefully acknowledged. Trademarks: Medela, Invia and Invia Motion are registered in the U.S. Patent and Trademark Office and elsewhere.

REFERENCES

[1] Phelps JR, Fagan R, Pirela-Cruz, MA. A case study of NPWT to manage acute necrotizing fasciitis. WOUND Management & Prevention, March 2006. 52(3):54-59. [2] Lee JY, Jung H, Kwon H, Jung SN. Extended negative pressure wounds in necrotizing fasciitis patients. World Journal of Emergency Surgery, 2014, 9:29. http://www.hjes.org/content/9/1/29





