

The use of Topical Wound Oxygen (TWO2) on Complex Recalcitrant Wounds in Multi-Morbid Patients

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Introduction

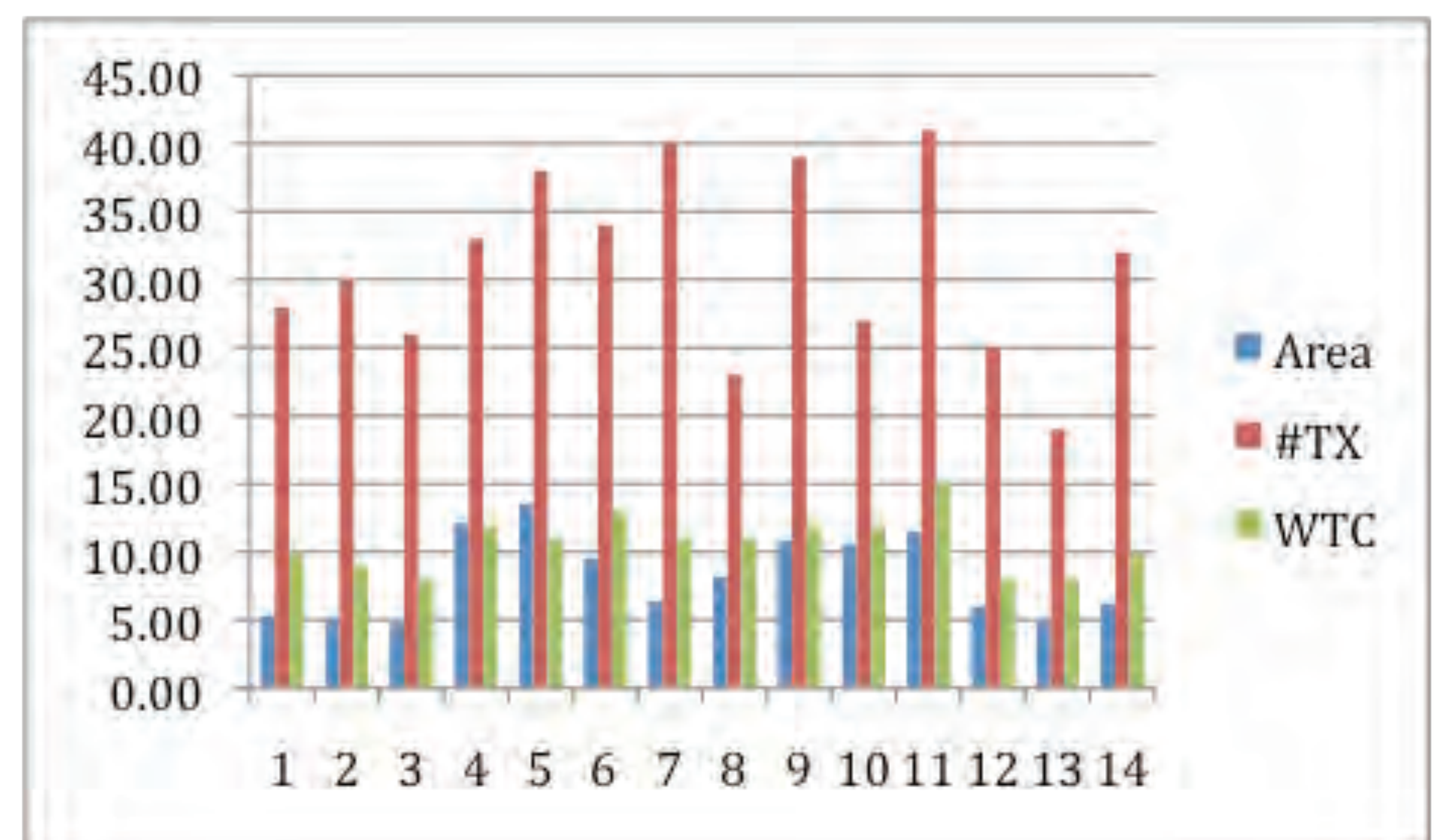
Patients suffering from chronic wounds often have multiple chronic conditions that impair wound healing.

Methods and Results

Topical Wound Oxygen (TWO2), manufactured by AOTI Ltd, Ireland works by delivering 100% oxygen at pressure cycles between 5 and 50mbar to enhance the partial oxygen pressure in the wound tissue. We have treated approximately 50 patients with a new therapy working with topical pressurized oxygen, and present data on 14 ulcers from 10 patients: 11 DFU and 3 Venous Stasis which had been unresponsive to conventional wound care and/or NPWT.



Patients received current standard best practice wound care techniques including infection control, debridement, offloading or compression therapy plus the addition of Topical Pressurized Oxygen therapy. 8/10 patients had history of Renal Disease, 4/10 had history of PVD and 8/10 were chronic smokers.



Results

10/10 patients achieved closure on 14 previously non-responsive ulcers. Wound are averaged 8.8 cm² (4.8-13.6) with average time to closure being 11.5 weeks (8-15) and average number of treatments to closure at 33 (19-41).

Conclusion

In these 10 extremely complicated cases, all associated with multiple co-morbidities, the addition of TWO2 proved to be a valuable adjunctive therapy with good results in healing their recalcitrant wounds and more importantly, the maintenance of the patients' functional status.