CASE REPORT: TOPICAL OXYGEN THERAPY IN A PATIENT WITH A CHRONIC LEG ULCER

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Aim

To evaluate topical oxygen therapy in a 76 year old patient with a chronic venous pretibial leg ulcer caused by a trauma in 2012. The comorbidity of this patient and use of medication is immense and hereby conflicting with her wound healing.
Method

A special device extracts oxygen from the air and delivers 12-14 ml/hr oxygen through a flexible tube to an Oxygen Delivery System. This system is in direct contact with the wound surface. The continuous supply of oxygen ensures an oxygen rich environment around the wound area. The system can be placed on a non infected wound without necrosis or eschar and must be covered with an absorbing bandage.
Results / Discussion

Since 2012 we used several wound gels and dressings in combination with compression therapy. Unfortunately without optimal wound healing results. Mid August 2014 we started the topical oxygen therapy. This therapy was at that time recently available in the Netherlands. After 5 weeks and 5 days there was a complete wound healing. The Oxygen Delivery System was renewed once a week in the hospital and the super absorbent dressing once every day/two days by the community nurses depending on the amount of exudate.
Conclusion

The use of topical oxygen in this complex patient lead to a complete wound healing in 5 weeks and 5 days. Community nurses, hospital staff and the patient were very satisfied with this new therapy modality.

Result after 5 weeks and 5 days therapy