26th European Conference, 2016 - Bremen (Germany)

European Wound Management Association

Pure synthetic diosmin and SiO_2-Ag^+Chlorex: a real synergy in the treatment of Venous Leg Ulcers

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AIM

Beyond the bandage, there's something else to do to accelerate the healing of venous leg ulcers. Our aim is to prove the synergy of Diosmin and SiO_2-Ag^+Chlorex in increasing healing rate.

METHODS

We enrolled 40 patients with VLU of less than 6 months, divided into 4 groups of 10 each, in a sequential randomization. GROUP 1: compression therapy over zinc oxyde bandage; GROUP 2: like group 1 plus diosmin[1] (pure synthetic diosmin 900 mg/day); GROUP 3: like group 1 plus medication with SiO_2-Ag^+Chlorex spray powder[2] (silicon dioxide, ionic silver and chlorexidine); GROUP 4: like group 2 plus medication with SiO_2-Ag^+Chlorex. Dressing change once a week.
We evaluated the reduction of the wound area. The observation lasted 8 weeks.
Patients with zinc allergy, neoplastic cachexy, in treatment with immunosuppressive drugs and affected by severe respiratory/cardiac failure have been excluded.

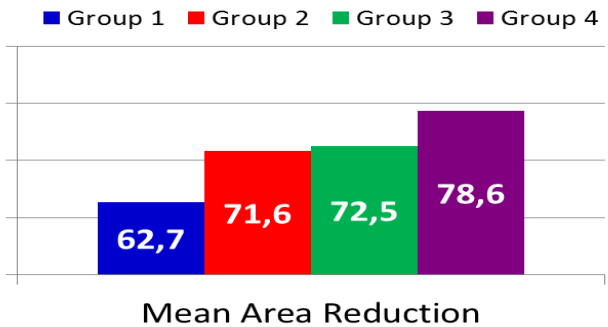
RESULTS / DISCUSSION

All patients had a good area reduction (more than 60%) but there are significant differences between each group. Group 2 had 14.2% of area reduction more than group 1; group 3 achieved about the same result of group 2 (15.7% of area reduction more than group 1); but the most significant result we had is about group 4 with an area reduction of more than 25% in comparison with group 1.
No complications (both local and general), no allergies; every treatment has been well tolerated.

CONCLUSION

This work demonstrated that pure synthetic diosmin can improve the healing rate in VLU and that there's a real and effective synergy between SiO_2-Ag^+Chlorex and diosmin; the most impressive data is that SiO_2-Ag^+Chlorex can achieve the same result of diosmin, but there's a very significant improvement if we use both treatments simultaneously.

MEAN AREA REDUCTION			
Group 1	Group 2	Group 3	Group 4
62.7%	71.6%	72.5%	78,6%
Control	+ 14.2%	+ 15.7%	+ 25.4%



Group 1: Compression
Group 2: Compression + Diosmin
Group 3: Compression + SiO_2AgChlorex
Group 4: Compression + Diosmin + SiO_2AgChlorex

[1] Venosmine [2] KAdermin Spray Powder (Pharmaday, Italy)