**Leukocyte-Platelet Rich Fibrin (L-PRF) in the treatment of skin lesions.**

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Aim. The platelets and the leucocytes enclosed in L-PRF clot release growth factors in greater quantity and duration than the traditional platelet concentrates. We intend to show the possible benefits deriving from the use of L-PRF also in the treatment of skin lesions.

Methods. 18 patients, 6 males and 12 females, mean age 78.8 aa (range 32-99), with 23 skin ulcers (10 traumatic, 6 diabetic, 2 phlebostatic, 1 mixed, 2 pressure, 1 peristomal, 1 rheumatoid), were weekly subjected to application of L-PRF. Red blood cells were separated from the coagulated plasma sampling with 10 ml (Intra-Lock®) tubes immediately centrifuged for 12 minutes at 2700 rpm (Intraspin Medical Device Intra-Lock® System Europa SPA).

Results. 22 lesions (96%) presented highly vascularized and regenerated new tissue, 19 lesions (83%) healed completely. Pain relief at the first application occurred in all 18 patients (100%). All traumatic wounds healed with fast epidermal growing. In one case of a diabetic foot with an exposed bone, healing was obtained avoiding amputation. The average healing time on 19 lesions was 8.89 weeks (range 1 - 21). 1 diabetic patient with comorbidity and skin allergy, despite initial improvement, worsened representing the only adverse event; 3 patients lost to follow up.

Conclusion. L-PRF, an autologous inexpensive and easy to prepare device in skin lesions, has shown in our limited experience excellent tolerability, antalgic efficacy, reduction of healing times in traumatic and inveterate non responders lesions, in diabetic foot avoided amputation.

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