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Dermatology and Cosmetology

&

3<sup>rd</sup> International Conference on  
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## Contemporary protocols and regenerative medicine approaches in the chronic wound treatment

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**Introduction:** Despite significant advances in medicine there is a growing need to develop novel strategies in the management of chronic wounds. The use of cell-therapies gathered attention in a wide range of diseases in the last decade and due to its potential to accelerate the wound healing process found an important place in clinical application in the field of chronic wound treatment.

**Aim:** To show the latest protocols, research results and technical achievements in the application of autologous therapies in order to stimulate cell migration, proliferation, differentiation, microcirculation, collateral circulation and new tissue formation and overall to determine whether autologous PRP promotes the healing of chronic wounds.

**Method:** PRP (Platelet Rich Plasma) and PRP gel represent autologous substrates derived from the patient's own blood. Strict quality control analysis of each PRP sample was conducted in order to confirm platelet number 6-8

folds higher than baseline in applied substrate. One step therapeutic treatment is conducted along with standard surgical debridement of the wound 2-3 times per a week, depending on the current patient's condition.

**Discussion:** The use of PRP has yielded great results in chronic wound treatment and with development of biotechnology and the possibility to adjust PRP substrate to each patient specific condition significant advances in this field are noted.

**Conclusion:** New protocols based on combination of surgical techniques and personalized regenerative medicine therapies enable achievement of significantly better results which represent important steps in managing one of the greatest challenges in ageing population worldwide that is tightly connected to numerous conditions that represent modern lifestyle burden.

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