



## Regenerative Care for Diabetic Wounds

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### Abstract:

The history of Wound management over 4000 years have been consisted of providing “in situ milieu” care in wounds, through intense interventions - surgical, medical and local dressings & devices such as negative suction etc. The “Regenerative Care” with Platelet rich plasma (PRP) based on triggering and assisting the skin regenerations in wounds from the skin margins. At our centre it has been developed as comprehensive solution (STARS Therapy) for treatment of different types of wounds. Methods: 102 wounds / ulcers were treated between Jan 2015- Dec 2019, in patients having Diabetes. All were chronic non-healing ulcers with mean duration of 3.5 months; ranging from 7.2 years to 23 days, before starting of Regenerative Care. Out of these 89 were chronic infected ulcers and 25 associated with gangrenes. we present the clinical outcome of this therapy in different types of wounds. The underwent treatment as per the STARS therapy Protocol. Results: The results reveal a complete healing with filling up of defects; excellent control of infection and good pain control. The average healing rate was 1.2mm /day. There were no major complications / adverse events observed. A recurrence was noted in 5 Patients and new wounds in 11 patients. The additional benefits seen is “limitation” of damages per se by regeneration in necrotic and devitalised tissues such as skins, tendons, muscles and bones. This Regenerative wound care is exclusive and no Drugs, Reconstructive Surgery, intense dressings is needed (except in very few cases). The Blood sugar levels have not effected the outcomes. The regenerative care with STARS protocol has opened up newer avenues & hopes in Diabetic wounds taking the wound care to perhaps next levels. Conclusions: The “Regenerative Care in wound management” is propagated through a mono therapy with PRP, based on triggering and assisting the skin regenerations in wounds through “STARS therapy”. It is a Game Changer solution built for wound management based on 21st Century advances on biologics and Cellular therapy.

### Biography:

Sandeep Shrivastava is the Director of Centre of Regenerative Medicine, at Datta Meghe Institute of Medical Sciences, Ward-



ha India. He is Professor of Orthopaedics having done his MS, DNB and Ph.D. He is also Chief Executive Officer, Hospitals and Ex DEAN of Medical School. In the field of Regenerative Medicine, he has pioneered the wound management with PRP, by developing the clinical Protocol of “Sandeep’s Technique for Assisted Regeneration of Skin (STARS Therapy)”. He is author of “An illustrative Guide on Platelet Rich Plasma”. His work is widely published and presented across the World.

### Recent Publications:

1. Identification of Sphingolipid-binding Motif in G Protein-coupled Receptors. Shrivastava S, Jafurulla M, Tiwari S, Chattopadhyay A. *Adv Exp Med Biol.* 2018;1112:141-149. doi: 10.1007/978-981-13-3065-0\_10. PMID: 30637695
2. Role of Actin Cytoskeleton in Dynamics and Function of the Serotonin1A Receptor. Shrivastava S, Sarkar P, Pereira P, Salomé L, Chattopadhyay A. *Biophys J.* 2020 Feb 25;118(4):944-956. doi: 10.1016/j.bpj.2019.08.034. Epub 2019 Sep 5. PMID: 31606121
3. Effect of Local Anesthetics on the Organization and Dynamics of Hippocampal Membranes: A Fluorescence Approach. Rao BD, Shrivastava S, Pal S, Chattopadhyay A. *J Phys Chem B.* 2019 Jan 24;123(3):639-647. doi: 10.1021/acs.jpcc.8b10232. Epub 2019 Jan 7. PMID: 30586308

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