

Regenerative care: Redefining the wound management

Complex wounds are many times associated with severe ischemia and infections, leading to further tissue necrosis and gangrenes. Traditionally they are managed with repair and reconstruction care with dressings, drugs and surgical interventions. PRP as a regenerative medicine product is being studied widely for different clinical applications including for wounds, fracture impairments, tendinopathies, osteoarthritis etc. This is based on its rich content of cytokines and growth factors which triggers, promotes tissue regeneration and further healing. At our centre, a protocol for treatment of wounds by PRP is known as Sandeep's Technique for assisted regeneration of skin (STARS therapy) have been developed and applied for treatment of different wounds including complex wounds with infections, recalcitrant ulcer,

deep with exposed tendons, bones etc. This exclusive of any other interventions and evolves a novel concept of "Regenerative Care". During this study, we have extended the usage to include few very challenging situations which included wounds associated with huge necrosis or limbs with impending with gangrene. They were associated with clinical signs of limb ischemia and had necrotizing skin, tendons, bones etc exposed in the wounds. The results are very encouraging leading to the tissue regeneration in such wounds with minimum residual tissues necrotizing. Complete healing of wounds was achieved in most of them. The PRP led regeneration and the solutions being developed are indicative of revolutionary clinical outcomes, which otherwise is not possible through current traditional pharmaceutical/surgical based therapies. The "Regenerative Care" through STARS therapy could be the path-breaking evolution for wound management.



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Biography

Sandeep Shrivastava is the Director of Centre of Autologous Platelet Biotechnological Interventions at Datta Meghe Institute of Medical Sciences, Wardha, India. He is a Director and Professor of Orthopaedics. He is also CEO of Teaching Hospitals of University. 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). His work is widely published and presented across the World.

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