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Reconstruction to regeneration: Beginning of a new era in the wound management

The management of complex wounds is a huge challenge. They need multiple surgeries, judicious antibiotic management and intricate local dressings. This involves substantial cost and further morbidities.

Despite the reconstructions, many a times the normalisation of skin is not possible; for example, in the sole and heel. The Prolong Antibiotics intake puts patients to further risks and side effects. Evolvement of Antimicrobial resistance is also a huge concern. In MRSA positive cases the cost, intensity and risk increases many fold. The local dressings assisted by devices such as Vacuum/negative pressure; chemically impregnated dressings etc need meticulous care and may not succeed in such cases.

The emergence of a new modalities based on Regenerative Medicine is predicted to change the managements of health problems. Inclusions of Stem cells, Mesenchymal Stem cells or Platelet in treatment protocol for complex problems will probably give current outcomes a flip.

The regeneration as a tool for healing is going to be very powerful options, and have all potentials to be the mainstay treatment, moving ahead from concept of Drugs, Devices and Dressings.

Platelet as a regenerative product. Few things about PRP usage are still unclear in current literature. This study and its results takes a leading stride in forwarding this march of Regenerative

Medicine into the clinical practices and building solution for problems which were referred to as difficult to solve or incurable. A complex problem of wound healing can be

overcome by the shift in knowledge, developed and based on Regenerative Properties of Platelets.

The STARS technique is a very simple protocol, developed scientifically step by step, through animal studies, standardisations of laboratory preparations, clinical case based observations and needful adoptions, till desirable results were obtained. This novel regenerative medicine based repairs and tissue engineering may lead the future of Medicine.

Speaker Biography

Sandeep Shrivastava is Professor of Orthopaedics. He is also the Director at Centre for Autologous Platelet Rich Plasma Biotechnological Interventions; C.E.O. (Hospitals) and Ex Dean of the Medical School at Datta Meghe Institute of Medical Sciences, a Health University, at India situated in rural backdrop of city Wardha. He is Chairman of Limb Deformity Correction and Reconstruction Clinic at Dept. of Orthopaedics. He did his graduation and post-graduation from G R Medical College, Gwalior, India. He has published more than 60 International papers; presented 75 International papers at different global forums, 2 books and hold 5 copyrights /patents on ranging interests from Medical Education to Bio- Informatics. As Clinical biotechnologist & researcher, he has developed the therapy "Sandeep's Technique for Assisted Regeneration of Skin (STARS)" for wound healing, which is an attempt to find an ideal solution for millions who continue to suffer from complex wounds. He has travelled extensively to over 25 countries, delivering various talks & have also been conducting life skill Workshop - "Escape to Lifescape".

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