

## Growth factors in DERMATOLOGY

Growth factors are proteins that stimulate cell growth and function. Growth factors bind to specific receptors on the plasma membrane to trigger cellular growth and proliferation. There are various types of growth factors. TGF, epidermal growth factor, vascular and endothelial growth factor, etc. Growth factors are indicated in skin, rejuvenation, wound healing, hair growth, scar, rejuvenation, vitiligo treatment, tissue, augmentation etc. PRF, recombinant human epidermal growth factor containing ointments are used in wound healing. PRP and growth factor concentrate are used for hair growth stimulation. In vitiligo treatment Decca peptides are used, they are amino acids, that stimulate melanocyte proliferation. There are various clinical studies supporting the role of growth factors in dermatology. Emerging trends in the field include gene therapy, exosome therapy, cytokine combinations, etc. Challenges and considerations include bioavailability, long term safety, regulatory approval etc. Side-effects, hyper, or hypopigmentation, acne breakout exacerbation of existing condition, etc. Growth factors are promising avenues for innovative therapies.