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Clinical experience of cell therapy for tissue restoration

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The art and science of tissue restoration are complex and intriguing. During the last 20 years, the speaker has been interested in the development of new techniques and materials that can improve functional and aesthetic results in wound repair and/or soft tissue restoration through a procedure of the least degree of invasiveness based on cell therapy. The aim of the talk is to share the speaker's clinical experience with cell therapy for skin and soft tissue restoration. This talk is organized into three major sections. First part covers cell therapy to repair acute wounds on the face and the hand. Especially, cases of skin and soft tissue restoration after removal of skin cancer, fingertip reconstruction, and phalangeal bone reconstruction after trauma will be presented. Second part presents treatment options to successfully close non- and/or delayed- healing chronic wounds, diabetic foot ulcers in particular. Diabetic wounds respond poorly to conventional treatments due to the involvement of multiple factors. It is imperative that the most problematic matters should be identified in each patient so that patients can receive patient-customized treatments. The speaker's personal experience of cell transplantation for stimulation of wound healing with a variety of cells is presented. Last part addresses soft tissue augmentation using injectable tissue.

Biography

Han is a Professor of Plastic Surgery at the Korea University College of Medicine. He received BS degree from the Korea University College of Medicine and MSc degree and PhD degree in medicine from the Korea University Graduate School of Medicine. He is Director of the Diabetic Wound Center and the Cell Therapy Laboratory at the Korea University Guro Hospital. He specializes in the diabetic wound healing and cell therapy. He continues to provide state of the art skin and soft tissue reconstruction for skin cancers. He is an author for 4 books (Innovations and Advances in Wound Healing, Management of Diabetic Wound, Advances in Wound Repair, Asian Rhinoplasty), 8 book chapters, and over 200 scientific articles including 62 articles published in the SCI journals as a principal author. He has also edited 5 books. He is Founding Member and current President of the Korean Wound Management Society.

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