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Adipose-derived stem cells: pathophysiologic implications versus therapeutic potential in systemic sclerosis

Rosa I *et al.* ADSCs in systemic sclerosis

Abstract

Adipose-derived stem cells (ADSCs) residing in the stromal vascular fraction (SVF) of white adipose tissue are recently emerging as an alternative tool for stem cell-based therapy in systemic sclerosis (SSc), a complex connective tissue disorder affecting the skin and internal organs with fibrotic and vascular lesions. Several preclinical and clinical studies have reported promising therapeutic effects of fat grafting and autologous SVF/ADSC-based local treatment for facial and hand cutaneous manifestations of SSc patients. However, currently available data indicate that ADSCs

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Stem cells are promising **potential** treatments for multiple conditions, and researchers have demonstrated these effects broadly. Of these, **adipose-derived stem cells** (ASCs) are unique and have many benefits for the treatment of neural injury and disease. ASCs are multipotent mesenchymal **stem cells** that are easily obtained from adipose tissue.

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