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Effects of radiation and chemotherapy on adipose stem cells: Implications for use in fat grafting in cancer patients

Availability of ASCs in patients post-radiation/chemotherapy

Abstract

Autologous fat transplantation is a versatile tool in reconstructive surgery. Adipose-derived stem cells (ASCs) increase survival of fat grafts and thus are increasingly used for breast reconstruction in breast cancer patients. However, radiation and/or chemotherapy have been proposed to inhibit soft tissue regeneration in wound healing thus suggesting alteration in stem cell pathways. Therefore, elucidating effects of radiation and chemotherapy on ASCs is critical if one desires to enhance the survival of fat grafts in patients. This review authors proposed evaluating the function and

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