

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 64843

Manuscript Type: REVIEW

Stem cell therapy: A paradigm shift in breast cancer treatment

Targeting Breast Cancer Stem Cells

Abstract

As per the latest Globocan statistics, the high prevalence rate of breast cancer in low- and middle-income countries has led to it becoming the most common cancer to be diagnosed, hence posing a major public health challenge. As per this data, more than 11.7% of the estimated new cases in 2020 were due to breast cancer.

A small, but significant subpopulation of cells with self- renewing ability are present in the tumor stroma and have been given the nomenclature of cancer stem cells (CSCs).

These cells display a high degree of plasticity owing to their ability to transition from

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Stem cell therapy has the potential to change the treatment paradigm from a conservative to a more curative approach. Freshly isolated, autologous, adipose-derived stromal cells were combined with a fat-graft procedure to treat lymphedema.

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