

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 53683

Manuscript Type: MINIREVIEWS

Adipose-derived stem cell therapy shows promising results for secondary lymphedema

Hu LR *et al.* ADSC therapy for secondary lymphedema

Li-Ru Hu, Jian Pan

Abstract

Lymphedema is mainly identified by progressive soft tissue swelling in impaired lymphatic system. Secondary lymphedema attributed to cancer

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Stem cells show promising results for lymphoedema ...

<https://www.tandfonline.com/doi/abs/10.3109/2000656X.2014.964726>

Jul 10, 2015 - **Adipose tissue** is the richest and most accessible source of **mesenchymal stem cells** and they can be harvested, isolated, and used for **therapy** in a single stage procedure as an **autologous treatment**. The aim of this paper was to review all studies using **mesenchymal stem cells** for **lymphoedema treatment** with a special focus on the **potential** use of **adipose-derived stem cells**.

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Author: Navid Mohamadpour Toyserkani, Marlen...

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lymphoedema treatment with a special focus on the **potential** use of **adipose-derived stem cells**. A **systematic search** was performed and five **preclinical** and two clinical studies were found. **Different stem cell sources** and **lymphoedema models** were used in the described studies.

(PDF) Stem cells show promising results for lymphoedema ...

https://www.researchgate.net/publication/266381368_Stem_cells_show_promising_results...

Stem cells show promising results for lymphoedema treatment – A literature review. **Abstract** **Lymphoedema** is a debilitating condition, manifesting in excess **lymphatic fluid** and swelling of subcutaneous tissues. **Lymphoedema** is as of yet still an incurable condition and current **treatment modalities** are not satisfactory.

Treatment of Breast Cancer-Related Lymphedema with ...

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.1002/sctm.17-0037>

Cell therapy has shown promising results in preclinical models of lymphedema. Autologous adipose tissue is the most convenient source of cells for clinical therapy. In the present First in Human



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Adipose-derived stem cells promote lymphangiogenesis in ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3263831>

Recent studies have demonstrated that augmentation of lymphangiogenesis and tissue engineering hold promise as a treatment for lymphedema. The purpose of this study was to determine whether adipose-derived stem cells (ASCs) can be used in lymphatic tissue-engineering by altering the balance between pro- and anti-lymphangiogenic cytokines.

Cited by: 64

Author: Alan Yan, Tomer Avraham, Jamie C Zamp...

Publish Year: 2011

(PDF) Stem cells show promising results for lymphoedema ...

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Significance: Lymphedema is a very debilitating side effect of cancer treatment and has very few treatment options. Stem cell therapy has the potential to change the treatment paradigm from a ...

Treatment of Breast Cancer-Related Lymphedema with ...

<https://www.ncbi.nlm.nih.gov/pubmed/28653440>

1. Stem Cells Transl Med. 2017 Aug;6(8):1666-1672. doi: 10.1002/sctm.17-0037. Epub 2017 Jun 27.

Treatment of Breast Cancer-Related Lymphedema with Adipose-Derived Regenerative Cells and Fat Grafts: A Feasibility and Safety Study.

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Author: Navid Mohamadpour Toyserkani, Charlott...

Publish Year: 2017

Treatment of Breast Cancer-Related ... - Stem Cells Journals

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.1002/sctm.17-0037>

Cell therapy has shown promising results in preclinical models of lymphedema. Autologous adipose tissue is the most convenient source of cells for clinical therapy. In the present First in Human Pilot Study, it is shown that treatment with autologous adipose-derived regenerative cells can alleviate symptoms and reduce the need for other ...

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lymphoedema. **Adipose tissue** is the richest and most accessible source of **mesenchymal stem cells** and they can be harvested, isolated, and used. for **therapy** in a single stage procedure as an ...

Adipose-derived stem cells promote lymphangiogenesis in ...

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Recent studies have demonstrated that augmentation of **lymphangiogenesis** and **tissue engineering** hold promise as a **treatment for lymphedema**. The purpose of this study was to determine whether **adipose-derived stem cells** (ASCs) can be used in **lymphatic tissue-engineering** by altering the balance between **pro-** and **anti-lymphangiogenic cytokines**.

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Treatment of Breast Cancer-Related Lymphedema with ...

<https://www.ncbi.nlm.nih.gov/pubmed/28653440>

Recent studies have suggested that mesenchymal stromal **cells** can alleviate **lymphedema**. Herein, we report the **results** from the first human pilot study with freshly isolated adipose-derived regenerative **cells** (ADRC) for treating **lymphedema** with 6 months follow-up. Ten BCRL patients were included.

Cited by: 4

Author: Navid Mohamadpour Toyserkani, Charlott...

Publish Year: 2017

Stem Cell Therapy for Lymphedema: Has the Future Arrived?

<https://torontophysiotherapy.ca/stem-cell-therapy-for-lymphedema> ▾

Jan 16, 2018 · The authors of this latest **lymphedema stem cell therapy trial** chose a very **popular stem cell type** that's filled with **promise**: **mesenchymal stem cells**. This type of **stem cell** is known to be able to generate a wide variety of different **cell types** including **lymphatic endothelial cells** (ref 5), as well as secrete many protein factors that influence vascular repair and inflammation processes (such ...