Title: ***Adipose-derived regenerative cells and wound healing: Translation from the laboratory to clinical reality***

Chronic wounds pose a major public health problem which is estimated to become more prevalent as the population gets older. More simple and effective solutions are still being sought for and autologous stem cell treatment has emerged as a possible solution. Adipose tissue is the most abundant stem cell source and stem cell treatment as a single stage procedure is possible. In this project we will evaluate the efficacy of autologous adipose-derived stem cell treatment for chronic wounds in a controlled randomized trial. We will also examine the importance of stem cell dosage and the effects of stem cell treatment on the wound microenvironment in an animal model in close collaboration with the laboratory for Tissue Repair and Gene Therapy at Brigham and Women´s Hospital and Harvard Medical School, USA.

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