

Ultrasound autologous intra fibroid injection of human menstrual blood stem cells. A break through modality treatment of fibroid

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Introduction

Fibroid is the most common benign tumor in women, many modalities of treatment rank from medical, radiological, immunological, and surgical. Stem cell had a relation to gneiss of fibroid hence we introduced for the first time ultrasound autologous intra fibroid injection of human menstrual blood stem cells, as a new modality of treatment of fibroid.

Patient and Method:

10 patients were enrolled in the study having myoma (single subserous, interstitial and submucous, myoma volume, and uterine volume were recorded before treatment. Human menstrual blood stem cells was prepared and injected through vaginal ultrasound, biopsy was taken from myoma cell and uterine muscle cells before and after treatment subjected to tissue culture the biopsy was subjected for cell proliferation assay, cytokine assay, western blot analysis, RNA extraction real time PCR, proapoptotic, Tunnel test cyclin D1 expression, microvessels density, TGFB, P53, VEGF, Micro RNA 125, connexin 26.

Results:

After 3 months of treatment statistically significant decrease in the uterine volume and myoma volume $P < 0.05$ and statically significant increase in apoptosis ($P < 0.05$) statistically significant decrease of tissue cultural markers previously mentioned in the subject and method after treatment and in relation to normal myometrial cells.

Conclusion:

A new line a treatment of fibroid with no side effect and accepted cost / benefit ratio.

Keywords : Fibroid, ultrasound, stem cells, proliferation cell assay, micro RNA 125 , Apoptosis

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