

17th World Congress of the Academy of Human Reproduction

15–18 March 2017
Rome, Italy

TITLE

EFFECTS OF AUTOLOGOUS PLATELET-RICH PLASMA ON IMPLANTATION AND PREGNANCY IN REPEATED IMPLANTATION FAILURE: A PILOT STUDY

AUTHOR/S

Nazari L (IR) [1], Salehpour S (IR) [2], Hoseini S (IR) [3], Zadehmodarres S (IR) [4], Ajori L (IR) [5]

ABSTRACT

Context: Repeated implantation failure (RIF) is a major challenge in reproductive medicine and despite several methods that have been described for management, there is little consensus on the most effective one.

Objective: This study was conducted to evaluate the effectiveness of platelet-rich plasma in improvement of pregnancy rate in RIF patients.

Methods: a pilot study

Patients: Twenty women with a history of RIF who were candidates for frozen-thawed embryo transfer were recruited in this study.

Intervention: Intrauterine infusion of 0.5 ml of platelet-rich plasma that contained platelet 4-5 times more than peripheral blood sample was performed 48 hrs before blastocyst transfer.

Main Outcome Measure: serum β -HCG two weeks after embryo transfer

Results: Eighteen participants were pregnant with one early miscarriage and one molar pregnancy. Sixteen clinical pregnancies were recorded and their pregnancies are ongoing.

Conclusion: According to this study, it seems that platelet-rich plasma is effective in improvement of pregnancy outcome in RIF patients.

INSTITUTE

[1] Shahid Beheshti University of Medical Sciences, [2] Shahid Beheshti University of Medical Sciences, [3] Shahid Beheshti University of Medical Sciences, [4] Shahid Beheshti University of Medical Sciences, [5] Shahid Beheshti University of Medical Sciences