

OVARIAN FAILURE

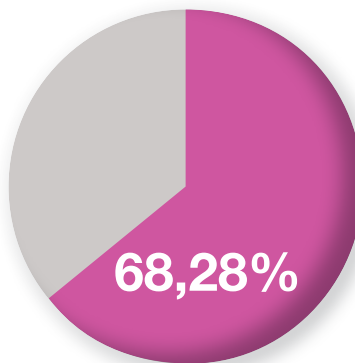
USE OF ENDORET[®] TECHNOLOGY IN OVARIAN FAILURE AFTER MOBILIZATION OF STEM CELLS WITH G-CSF INTO PERIPHERAL BLOOD

AFTER THIS TREATMENT, OOCYTE ACTIVATION WAS ACHIEVED IN
ALMOST 70% (n=145) OF PATIENTS



The **StemCell Regenera treatment**, which consists of the preparation and intraovarian injection of ENDORET[®] after the mobilization of peripheral blood stem cells with G-CSF, is effective and safe for oocyte activation in women with ovarian failure.

OOCYTE ACTIVATION



ACHIEVED PREGNANCY
21%

of which

SPONTANEOUS GESTATION
33%

ABSTRACT

Amparo Santamaría, Ana Ballester, Manuel Muñoz

Enhancing oocyte activation in women with ovarian failure: clinical outcomes of the Stem Cell Regenera study using G-CSF mobilization of peripheral blood stem cells and intraovarian injection of stem cell factor-enriched platelet rich plasma in real-world-practice

OBJECTIVE

The study assesses the effectiveness and safety of the Stem Cell Regenera Treatment for oocyte activation in women with ovarian failure, including conditions such as Poor Ovarian Response (POR), Diminished Ovarian Reserve (DOR), and Premature Ovarian Insufficiency (POI). This retrospective observational study was conducted from January 2023 to December 2024 at the IVIRMA Alicante Clinics in Spain.

METHODS

Women diagnosed with ovarian failure participated in the study, which involved mobilizing Hematopoietic Stem Cells from bone marrow into peripheral blood using granulocyte colony- stimulating factor (G-CSF). This was followed by an intraovarian injection of Stem Cell Factor- enriched Platelet Rich Plasma (SCFE-PRP).

MAIN OUTCOME MEASURES

The primary outcome measures were the rate of oocyte activation, leukocytes and stem cell count, and pregnancy rates. Oocyte activation was defined as an increase in total Antral Follicle Count of three or more follicles after treatment and/or at least a 20% rise in Anti-Müllerian Hormone levels. Safety was assessed based on adverse effects. Pregnancy rates were evaluated for both spontaneous gestation and following in vitro fertilization (IVF) treatment.

RESULTS

A total of 145 women participated: the overall activation rate was 68.28%, with 7.07% achieving spontaneous gestation and 14.14% achieving pregnancy following IVF. Mobilization of CD34+ cells was successful in all participants, with an average collection of 32.96 CD34+ cells/ μ l. No severe adverse effects were observed.

CONCLUSIONS

Stem Cell Regenera Treatment is effective and safe for oocyte activation in women with ovarian failure in real-world practice.