

# Influence of adenomyosis on clinical pregnancy in oocyte donation program

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**BACKGROUND:** Adenomyosis is present in oocyte receptor patients either for advanced age or by endometriotic involvement. It has been described as a possible influence on the uterine vascularization and endometrial receptivity that could affect embryo implantation. Oocyte donation offers a scientific opportunity to study the unique biologic participation of the uterus in the process of human embryo implantation.

**OBJECTIVE:** To study the prevalence of adenomyosis in oocyte recipient patients and the possible impact in clinical pregnancy rate.

**METHODS:** A prospective, longitudinal study of 170 consecutive egg recipient cycles. Only first cycle with fresh embryo transfer per patient was included. In all patients a 3D- ultrasound was performed to study the presence of adenomyosis. Adenomyosis was defined as the presence of at least three of the following ultrasound criteria: heterogeneous myometrial echo texture, linear striations, hypoechoic areas, myometrial wall asymmetry myometrial cysts, poorly defined junctional zone and myometrial cysts.

**RESULTS:** The prevalence of adenomyosis was 21.2% (36 patients). There were no differences between the two groups (adenomyosis / no-adenomyosis) in the characteristics of the patients (age, BMI) or in the egg donation cycles (donor age, number of oocytes, number of transferred embryos, day of embryo transfer). No significant differences in pregnancy rate (63.9 vs. 54.5%) and miscarriage rate (8.7% vs. 16.4%) were found between groups. The presence of adenomyosis was significantly associated with endometriosis, but not with age or fibroids presence.

**CONCLUSIONS:** In our preliminary results the presence of adenomyosis did not seem to influence in the results of oocyte donation receptor patients. Further studies are needed to confirm our results.

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**Authors :**

**References :** , , ,

## Authors

**Sara Peralta 1,**

1. Institut Clinic de Ginecologia i Obstetricia, Hospital Clinic, Barcelona, SPAIN

## Authors (raw format)

Peralta Sara - email : speralta@clinic.ub.es Institution : Hospital Clinic Department : Institut Clinic de Ginecologia i Obstetricia City : Barcelona Country : SPAIN Speaker : Yes

