

DAY 4 VERSUS DAY 5 EMBRYO TRANSFER IN AN EGG DONATION PROGRAM

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Introduction

Matherial and methods

Traditionally, the vast majority of embryo

During a six month period 228 fresh embryo

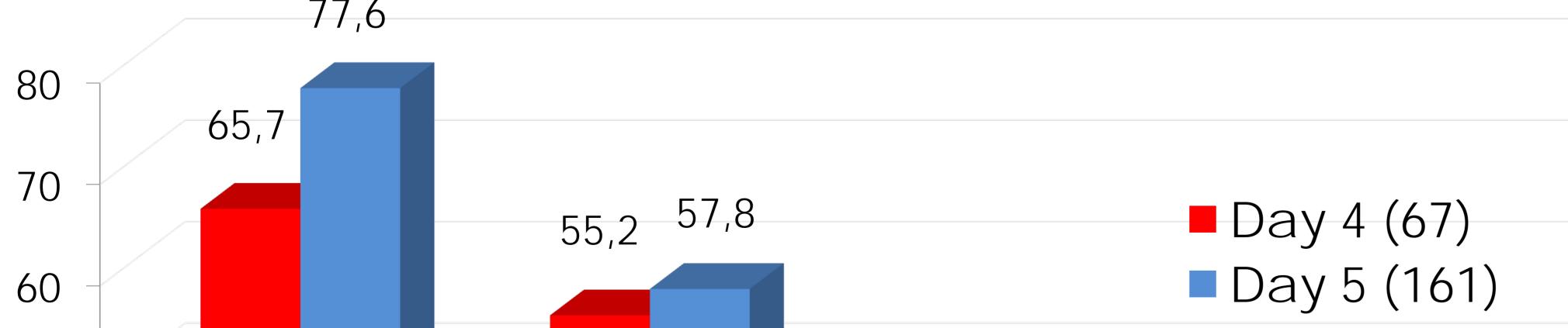
transfers are performed either at cell stage or blastocyst stage, while transfer on day 4 remains an option that is practically overlooked. Few reports exist evaluating the effectiveness of day 4 embryo transfers. The main goal of this study was to analyze whether day 4 embryo transfer is as effective as day 5 in embryo selection capability in order to achieve pregnancy.

Results

There were no differences in terms of maternal and donor age (41,1 \pm 4,4 and 24,9 \pm 3,9 versus 41,9 \pm 4,4 and 24,1 \pm 3,8), endometrial thickness (8,6 \pm 1,8 versus 8,6 \pm 1,5), follicular phase length (19,0 \pm 3,6 versus 19,5 \pm 3,5), number of donated oocytes (12,4 \pm 3,8 versus 12,7 \pm 3,4) and embryos transferred (1,8 \pm 0,4 vs. 1,9 \pm 0,4) in day 5 and day 4 groups respectively. Positive pregnancy test (77,6% vs. 65,7%) , clinical pregnancy (57,8% vs. 55,2%), implantation rates (43,4% vs. 38,6%) and miscarriage rate (10,8% vs. 13,5%) did not achieve statistical significance. (Figure 1).

transfers coming from our oocyte donation program were analysed, 67 of which were performed on day 4 and 161 on day 5. The procedure for recipients involved the use of oral estrogen (Progynova) in a step protocol and vaginal micronized up progesterone (Cyclogest). In cases of preserved ovarian activity, a LH-RH agonist depot was used in the luteal phase of the previous cycle. The main outcome measures were positive β -HCG, implantation, clinical pregnancy and miscarriage rate. Results were analyzed using t-student test and chi-square test. A P value of <.05 was considered statistically significant.

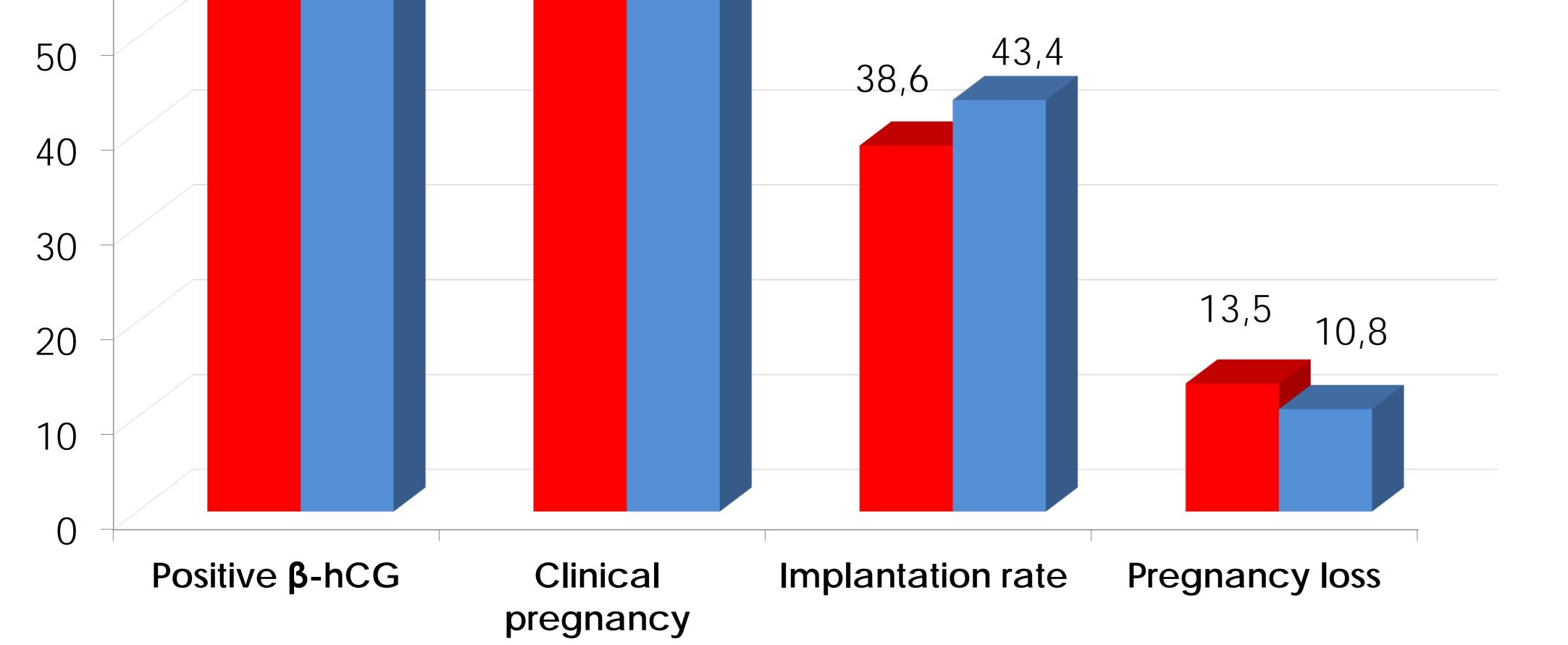
Figure 1. Overall clinical outcomes



Conclusions

Clinical outcomes transferring embryos on day 4 or day 5 are comparable, allowing major flexibility to schedule embryo transfer and, therefore, avoiding inconveniences both for patients and the clinic.







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