FRESH EMBRYO TRANSFER VERSUS FREEZE-ALL STRATEGY IN PATIENTS WITH POLYCYSTIC OVARY SYNDROME UNDERGOING **INTRA-CYTOPLASMIC SPERM INJECTION** Mohamed Abdel-Moaty EL-Samra, Tamer Hanafy Mahmoud, Ahmed Fawzy Galal, Asmaa Mohamed Mohamed Mohamed Darwish Department of Obstetrics and Gynecology, Faculty of Medicine, Alexandria University

Intracytoplasmic sperm injection includes ovarian stimulation to retrieve mature oocytes, fertilize them by sperms. Then embryo transfer after endometrial preparation. This could be done by fresh transfer or frozen embryo transfer in case of retrieval of a high number of oocytes.

Polycystic ovary syndrome is a hormonal disorder in which the ovaries produce abnormal amounts of androgens and develop numerous follicles which they fail to release, leading to cycle irregularities, infertility, and high androgen levels.

During ovarian stimulation in polycystic ovary syndrome, it is advised to use gonadotrophin releasing hormone antagonist protocol.

The aim of this work was to compare pregnancy rates between fresh embryo transfer and frozen embryo transfer as a part of freeze all strategy in patients with polycystic ovary syndrome.

itients and Methods

70 Patients having polycystic ovary syndrome and indicated for intracytoplasmic sperm injection are enrolled in a prospective randomized study. Patients are selected with the fulfillment of the inclusion criteria.

patients are randomly allocated into two groups to study the pregnancy rates between fresh embryo transfer versus frozen embryo transfer as a part of freeze-all strategy.

Group A includes patients undergoing fresh embryo transfer at the same cycle of ovulation induction whereas, Group B includes patients undergoing freeze-all strategy and embryo transfer in a subsequent cycle.

Results

Table 1: Comparison between the two studied groups regarding implantation.

	Fresh embryo transfer group		Frozen embryo transfer group		р
	No	%	No	%	-
Implantation					
No	14	35	12	30	(
Yes	26	65	28	70	0.4

 $X^2 = Chi$ square test P was significant if < 0.05N.S. = Not significant

Table 2: Comparison between the two studied groups regarding clinical pregnancy and ongoing pregnancy.

	Fresh transfe	embryo er group	Frozen embryo transfer group		
	No	%	No	%	
Clinical pregnancy					
(+ve pulsations 5 wks)					
No	16	40	13	32.5	
Yes	24	60	27	67.5	
Ongoing pregnancy					
(12 wks viable) No	17 23	42.5 57.5	13 27	32.5 67.5	
Yes	23	57.5	21	07.5	

 $X^2 = Chi$ square test P was significant if < 0.05N.S. = Not significant

Yes

 \mathbf{X}^2 value 0.228 406 N.S.



Fresh embrvo Frozen embrvo \mathbf{X}^2 transfer group transfer group **P** value % No No % Multiple pregnancy 35 87.5 34 85 0.105 No 12.5 5 15 0.500 N.S. Yes 6 OHSS 39 97.5 40 100 1.013 No

Table 3: Comparison between the two studied groups regarding multiple
 pregnancy, chemical pregnancy and OHSS.

 $X^2 = Chi$ square test

P was significant if < 0.05N.S. = Not significant

2.5

Conclusion

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Our results showed that there was no significant difference in fertility success rates between the fresh and the frozen embryo transfer cycles using GnRH-antagonist protocol and GnRHagonist as a trigger in women diagnosed with PCOS and aging 20 -35 years with E2 level between 3000 - 4000 pg/ml at the day of ovulation triggering.

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0.985 N.S.

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