INITIAL RESULTS OF THE SECOND - TIME OOCYTE RETRIEVAL IN THE SAME OVARIAN STIMULATION CIRCLE AT ASSISTED REPRODUCTIVE TECHNOLOGY CENTER OF HAI PHONG WOMEN HOSPITAL

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BACKGROUND

 In assisted reproductive technology, the ovanrian stimulation protocols are used for producing more competent oocytes and healthier embryos and increasing fertilization rate

BACKGROUND

- Recent evidence indicates that folliculogenesis occurs in a wave-like fashion. Thus, in the same menstrual cycle, there are multiple follicular recruitment waves
- This fact challenges the traditional theory that a single cohort of antral follicles only develop during the follicular phase of the menstrual cycle.

BACKGROUND

 It's the basis for the second oocyte retrieval in the same ovarian stimulation circle

PATIENTS & METHODS

- 1. Patients
- 60 cases undergone second time oocyte retrieval in the same ovarian stimulation circle at assisted reproductive technology center of Hai Phong women hospital from 6/2016 to 2/2017.
- Patients received gnrh antagonist protocol for ovarian stimulation. The second – oocyte retrieval was performed after the first one 24 – 48h: Monitor follicular development on ultrasound, if there are follicles of size ≥ 14mm to perform the second – time oocyte retrieval.

OBJECTIVE

To evaluate the initial results of second –time oocyte retrieval in the same ovarian stimulation circle.

PATIENTS & METHODS

- 2. Methods:
- Discributive retrospective study
- Endpoints: Fertilization rate, mature (metaphase II) oocytes rate

1. Patients' characteristicsAge

Age (years)	n	%	
< 30	24	40	
30 – 35	24	40	
> 35	12	20	
Sum	60	100	
Mea	n (SD) 31,6	5,3	

Type of infertility

Type of infertility	n	%
Primary	32	53,3
Secondary	28	46,7
Sum	60	100

o Duration of infertility

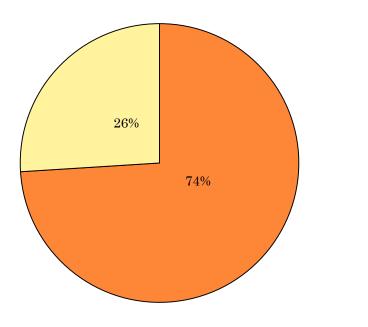
Duration of infertility (years)	n	%
≤ 5	47	78,3
> 5	13	21,7
Sum	60	100
Mean (SD)	3,63	2,5

Indication for IVF

Indication	n	%	
Male factor	13	21,7	
Tubor factor	15	25	
Ovulation disorder	8	13,3	
Both male and female factor	8	13,3	
Endometriosis	1	1,7	
Others	15	25	
sum	60	100	

2. Result of oocytes retrieved

Figure 1: number of oocytes after two times oocyte retrieval



 \Box OR1

 \Box OR2

• Mature (metaphase II) oocytes rate

	Number of oocytes retrieved	Number of MII	%	р
OR 1	589	443	75,21	
OR 2	203	140	68,96	> 0,05

3. Fertilization rate

	OR 1		OR 2		Р
Mean fertilization rate	73,3	25,13	66	32,13	> 0,05
Mean of embryos	2,31	1,7	7,07	4,83	< 0,05

CONCLUSION

 The second time oocyte retrieval could provide an opportunity to retrieve more oocytes with good quality.

CONCLUSION

•The questions:

- Should we use the double stimulation protocol for the second time oocyte retrieval?
- who will benefit from the second time oocyte retrieval??

CONCLUSION

•We need more large cohort studies/randomized clinical trials with live-birth rates as outcomes are needed to better elucidate the benefit of the result of the second time oocyte retrieval.

Thank you for your attention!