

# RESULTS

## **RESULTS**

**Table (1): Patients characters in the study groups (number =50):**

<b>Group Data</b>	<b>IUI with Misoprostol (n=25)</b>	<b>IUI without Misoprostol (n=25)</b>	<b>P</b>
<b>Wife age</b>			
Mean $\pm$ SD	26.2 $\pm$ 6.08	26.5 $\pm$ 6.16	NS
Range	22-35	22.5-35	
<b>Husband age</b>			
Mean $\pm$ SD	34.0 $\pm$ 6.97	36.3 $\pm$ 5.39	N.S
Range	23-45	26-49	
<b>Infertility duration</b>			
Mean $\pm$ SD	5.24 $\pm$ 2.66	4.23 $\pm$ 2.72	N.S
Range	3- 7	4 -7.5	

Table(1): shows the characteristics of fifty infertile couples with unexplained infertility . They were divided randomly into 2 groups each of which was 25 patients, no significant difference was detected between the two groups as regard wife age, husband age or duration of infertility.

**Table (2): Number and percentage of pregnancy in the study group:**

<b>Variable \ Group</b>	<b>IUI with Misoprostol(n=25)</b>	<b>IUI Without Misoprostol(n=25)</b>	<b>Total</b>
<b>Number of treatment cycles</b>	125	126	251
<b>Number of pregnancies</b>	7	5	12
<b>% of preg. /pt.</b>	28%	20%	24%
<b>% of preg./ Cycle.</b>	5.6%	3.96%	4.78 %

Table(2):Shows that a total of 251 inseminations were done ,125 with misoprostol and 126 without misoprostol. The overall pregnancy rates per patient and cycle with IUI were 24% and 4.78 respectively with higher pregnancy rate per patient and cycle in IUI with misoprostol (28% and 5.6%) compared to (20%and3.96%) in IUI without misoprostol .

**Table (3): Number and percentage of pregnancy in the treatment cycles:**

<b>Cycle</b>	<b>Number of inseminations</b>	<b>Number of pregnancy</b>	<b>Percentage of preg./cycle</b>
1	50	5	10%
2	45	4	8.89%
3	41	2	4.88%
4	39	1	2.56%
5	38	-	0.0%
6	38	-	0.0%
Total	251	12	4.78%

Table (3): Shows that the higher percentage of pregnancy was in the first 3 treatment cycle (7.92%) in comparable to the next three cycles(0.85%).

**Table (4): Comparison of patients characters in pregnant and non pregnant groups:**

Character	Pregnant group (n=12)	Non pregnant group (n=38)	P
<b>Wife age</b>			
Mean $\pm$ SD	26.2 $\pm$ 3.65	30.7 $\pm$ 5.16	N.S
Range	23-34	22-35	
<b>Husband age</b>			
Mean $\pm$ SD	32.8 $\pm$ 4.43	33.6 $\pm$ 6.86	N.S
Range	26-40	25-47	
<b>Infertility duration</b>			
Mean $\pm$ SD	4.25 $\pm$ 1.54	4-27 $\pm$ 2.77	N.S
Rang	3-6	3-6.5	

Table (4): Compares the characters of pregnant with that of non pregnant cases. There was no significant difference as regard wife age, husband age or duration of infertility.

**Table (5): Comparison between mean number of follicles, endometrial thickness on day of HCG injection in pregnant and non pregnant groups:**

Character	Pregnant group(n=12)	Non pregnant group(n=38)	
			P
Follicles number			NS
<b>Mean <math>\pm</math> SD</b>	2.41 $\pm$ 0.67	2.4 $\pm$ 0.96	
Endometrial			NS
thickness	10.5 $\pm$ 1.65	10.12 $\pm$ 1.4	
<b>Mean <math>\pm</math> SD</b>			

Table(5) : Shows that there was no significant difference between the mean number of follicles (16-23mm) and endometrial thickness in the day of h CG injection, in pregnant and non pregnant cases.

**Table (6): Comparison of sperm character before and after processing in pregnant and non pregnant cycles :**

Character	Pregnant cycles (n=12)	Non pregnant cycles (n=38)	P
<b>Sperm concentration/ml</b> Mean $\pm$ SD:			
Before processing	61.88 $\pm$ 22.57 $\times 10^6$	66 $\pm$ 20.87 $\times 10^6$	NS
After processing	106.78 $\pm$ 14.61	107.17 $\pm$ 20.11	NS
	P<0.001	P<0.001	
<b>Total number of sperm</b> Mean $\pm$ SD			
Before processing	184.87 $\pm$ 22.37 $\times 10^6$	193.12 $\pm$ 24.27 $\times 10^6$	NS
Number inseminated	53.24 $\pm$ 8.31 $\times 10^6$	54.17 $\pm$ 8.44 $\times 10^6$	NS
<b>*Sperm motility</b> Mean $\pm$ SD:			
Before processing	48.33 $\pm$ 8.66	51.02 $\pm$ 9.44	NS
After processing	87.78 $\pm$ 4.4 %	85.67 $\pm$ 8.25%	NS
	P<0.001	P<0.001	NS

\*Sperm motility:

Before processing: progressive motile sperm within 30 minutes after ejaculation.

After processing : progressive motile sperm immediately after processing.

Table (6):Compares the sperm characters ( sperm concentration/ml, total number of sperm and sperm motility) before and after processing. No significant difference was found between pregnant and nonpregnant group. Processing significantly increased the sperm concentration and the percentage of progressive motile sperm.

**Table (7): Side effects of IUI in the study group (n =50):**

Side effect	IUI with misoprostol (n=25)		IUI without misoprostol (n=25)	
	Number	%	Number	%
Difficult application	1	4%	5	20%
Sperm reflux	2	8%	1	4%
Vaginal bleeding	1	4%	-	-
Abdominal cramps	2	8%	1	4%
Total	6	24%	7	28%

Table (7): Shows the side effects of IUI. Difficult application of IUI catheter was present in one case of IUI with misoprostol in comparable to 5 cases in IUI without misoprostol even after traction on the external os by a volsellum, sperm reflux present in 2 cases of IUI with misoprostol in comparison to one case of IUI without misoprostol. Vaginal bleeding present in one case of IUI with misoprostol. Abdominal cramps present in 2 cases of group treated by misoprostol after IUI comparable to 1 case in the other group.



**Table (8): Outcome of pregnancy by TV U/S:**

Outcome of preg.	Number	Percentage
Single sac.	10	83.33%
Twin pregnancy	2	16.67%
Total	12	

Table (8): Shows the outcome of 12 pregnant cases. There were 10 cases with single pregnancy ( 83.33%) and 2 cases with twin pregnancy (16.67%) ,no cases with triplet or ectopic pregnancy.