

The 27th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI) Paris, France - November 21 - 23, 2019



HORMONAL TREATMENT PRIOR TO TESTICULAR SPERM EXTRACTION (TESE) IMPROVES ICSI OUTCOMES.

Patrón Vázquez, Mario Alfonso¹. Dávila Garza, Sergio Alberto¹. Galache Vega, Pedro¹. Obeso Montoya, José Iram¹. Sánchez González, Luis Rodrigo¹. (1) IECH - Fertility Center, Monterrey, NL, México,

PROBLEM STATEMENT

To analyze embryological and obstetric outcomes obtained with the use of testicular sperm in patients receiving or not hormonal treatment prior to extraction.

METHODS

Retrospective cohort study between January 2007 to December 2017. All male patients attending the IECH fertility center in Monterrey requiring TESE for ICSI were enrolled. Group patients with 1 were severe oligoasthenoteratospermia (OAT) and non-obstructive azoospermia (NOA) who received recombinant follicle stimulating hormone [rFSH (Gonal-F[®])] 25 IU three times a recombinant week, or human gonadotropin [rHCG chorionic (Ovidrel[®])] 250 mcg once a week for at least 6 weeks prior to TESE; and Group were patients 2 with azoospermia obstructive not receiving treatment.

RESULTS

A total of 211 cases were analyzed (table 1); Group 1 (n=118) had mean age of 38.2 ± 6.9 , while group 2 (n=93) had a mean age of 40.5 ± 7.4 years. Women average age was 33.8 ± 5.1 (Group 1) versus 34.2 ± 4.8 years (Group 2). Mean FSH values for group 1 was 8.6 ± 6.7 mUI/dL vs 3.3 ± 2.5 for group 2. In group 1, 65% were patients with severe OAT and 35% with NOA. In total, 65% of the patients received rFSH and 35% received hCG. Testicular sperm was successfully retrieved in all cases including patients diagnosed with

Live Birth rate was 48% group 1 versus 52% for group 2. Implantation rate was 18% for group 1 and 33% for group 2.

CONCLUSION

Hormonal treatment of men with NOA and severe OAT prior to TESE equalize the reproductive performance when compared to OA. Future studies should compare men with NOA treated with hormones versus non-treated to show whether our findings of retrieving sperm in all cases of NOA is secondary to the pharmacological treatment.

NOA.

Fertilization rates were 48% vs 51% between groups. Cleavage rate for group 1 was 94% vs 85% for group 2; blastocyst yield was 74% for group 1 vs 65% for group 2. None of these parameters were significantly different. Pregnancy rate was 35/118 (30%) for group 1 and 34/93 (36%) for group 2. Clinical and ongoing pregnancy rates were 48% for group 1 and 79% for group 2.

CONFLICT OF INTERESTS

No relationships to disclose.

Table 1.Demographicsand ICSIparametersbetween twogroups.		Group 1	Group 2
	Number	118	93
	Age	33.8 ± 5.1	34.2 ± 4.8
	Mean FSH value	8.6±6.7	3.3±2.5
	OAT	65%	-
	NOA	35%	-
	OA	-	100%
	Fertilization rate	48%	51%
	Cleavage rate	94%	85%
	Blastocyst yield	74%	65%
	Pregnancy rate	30%	36%
	Clinical ongoing pregnancy	48%	79%
	Live birth rate	48%	52%
	Implantation rate	18%	33%