

Supplement Table 1. Distribution of types of aneuploidies

Seminogram results	Donor semen		Patient semen		p-value
	Normozoospermia	Normozoospermia	Teratozoospermia	Severe alterations	
Total embryos	225	301	557	363	
NGS results					
Normal	171 (76.0 ± 2.8%)	223 (74.1 ± 2.6%)	429 (77.0 ± 1.8%)	265 (73.0 ± 2.4%)	0.879
Abnormal embryos	48 (21.3 ± 2.7%)	71 (23.6 ± 2.5%)	116 (20.8 ± 1.7%)	89 (24.5 ± 2.3%)	
No Amplification	6 (2.7 ± 1.1%)	7 (2.3 ± 0.9%)	12 (2.2 ± 0.6%)	9 (2.5 ± 0.8%)	
Complexity					
Loss of chromosome(s)	22 (45.8 ± 7.2%)	36 (50.7 ± 6.0%)	58 (51.3 ± 4.6%)	46 (52.9 ± 5.1%)	0.187
Gain of chromosome(s)	24 (50.0 ± 7.2%)	23 (32.4 ± 5.6%)	43 (38.1 ± 4.7%)	27 (31.0 ± 4.8%)	
Loss and gain	2 (4.2 ± 2.9%)	12 (16.9 ± 4.4%)	12 (10.6 ± 3.0%)	14 (16.1 ± 3.9%)	
Type of Aneuploidy					
Monosomy	20 (41.7 ± 7.4%)	31 (43.7 ± 5.8%)	50 (44.2 ± 4.5%)	39 (44.8 ± 5.5%)	0.433
Trisomy	20 (41.7 ± 7.0%)	18 (25.4 ± 5.2%)	34 (30.1 ± 4.3%)	24 (27.6 ± 4.8%)	
Dual	12.5 (12.5 ± 4.7%)	14 (19.7 ± 4.6%)	20 (17.7 ± 3.7%)	11 (12.6 ± 3.7%)	
Multiple	2 (4.2 ± 2.9%)	8 (11.3 ± 3.7%)	9 (8.0 ± 2.5%) ^a	13 (14.9 ± 3.9%) ^b	

Values are frequency, percent ± standard error.

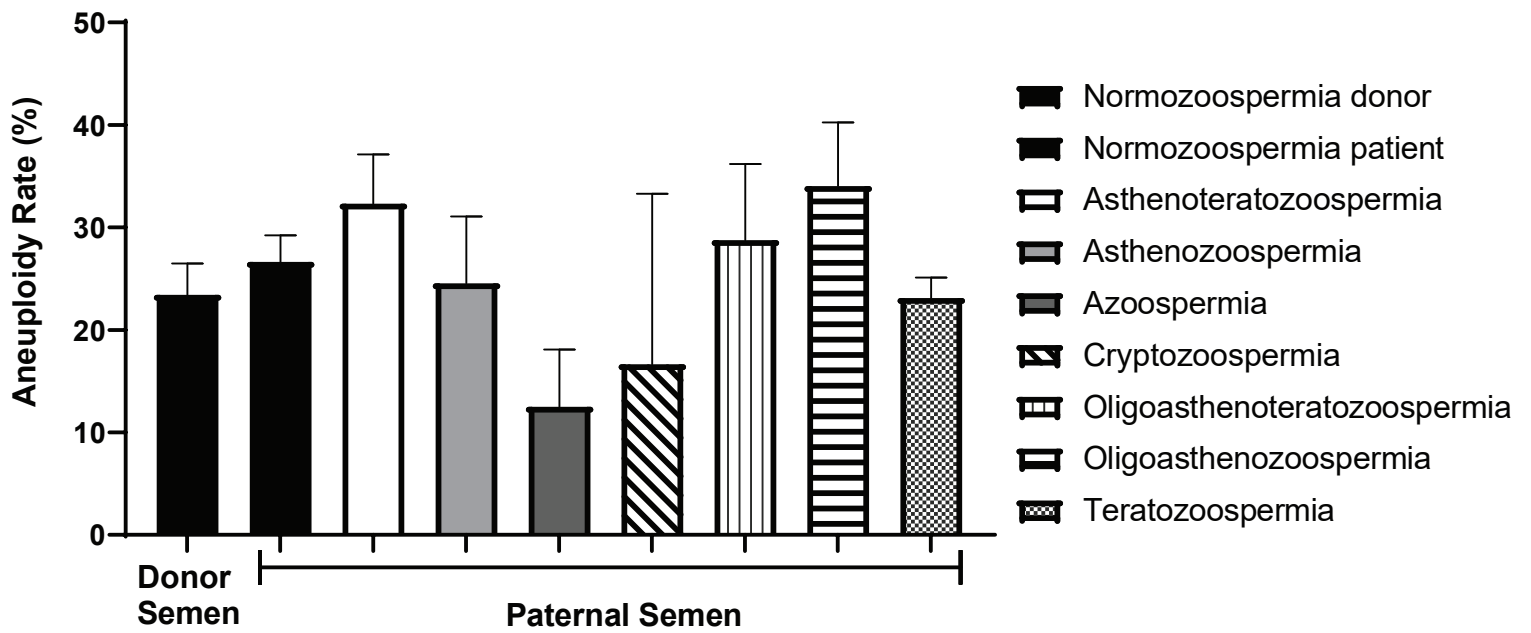
^a Three embryos had completely abnormal chromosomal profiles.

^b Two embryos had completely abnormal chromosomal profiles.

* indicates a significant difference ($p < 0.05$, chi-2 test) in the rate of chromosome abnormalities between embryos from patient semen and donor semen.

Supplement Table 2. The rate of trisomies and monosomies by semen source and seminogram.

Chromosome	Total		Donor semen		Normozoospermia		Patient semen		Severe alterations	
	Mixed group		Normozoospermia		Normozoospermia		Teratozoospermia			
	Monosomy	Trisomy	Monosomy	Trisomy	Monosomy	Trisomy	Monosomy	Trisomy	Monosomy	Trisomy
1	5	5	0	0	0	1	4	2	1	2
2	11	4	0	1	3	1	4	1	4	1
3	4	5	0	1	2	0	1	1	1	3
4	8	8	0	2	2	0	2	3	4	3
5	4	2	1	0	2	1	1	1	0	0
6	2	6	0	1	0	0	0	4	2	1
7	3	4	0	2	0	1	0	0	3	1
8	7	4	2	0	1	1	3	3	1	0
9	5	3	1	0	1	0	1	2	2	1
10	3	2	1	0	0	2	1	0	1	0
11	2	3	1	0	0	0	0	2	1	1
12	3	1	0	0	1	1	0	0	2	0
13	13	3	2	0	4	0	4	2	3	1
14	6	4	0	1	0	1	4	0	2	2
15	7	6	2	4	0	0	3	1	2	1
16	13	16	3	4	5	5	4	4	1	3
17	1	3	1	2	0	0	0	0	0	1
18	3	2	0	0	1	0	0	2	2	0
19	1	3	0	0	0	2	1	1	0	0
20	3	3	0	0	0	0	3	2	0	1
21	6	1	2	0	1	0	1	1	2	0
22	8	4	1	2	1	1	3	1	3	0
X	14	4	2	0	5	1	5	1	2	2
Y	8	0	1	0	2	0	5	0	0	0
Total	140	96	20	20	31	18	50	34	39	24



Supplement Fig. 1. Aneuploidy rates for embryos developed from donor ova using patient or donor sperm, stratified by etiology. The column height corresponds to the average aneuploidy rate, whereas the bar length is the standard error. Differences between groups were determined with ANOVA with a post hoc Bonferroni test. Significant differences ($p < 0.05$, two-tailed) are indicated with an asterisks.