

Total embryos (n)	14008
Embryo transfers(n)	3273
Embryos transferred (n)	3456
Sum fhs (n)	1336
Count fhs (n)	1269
IR (%)	38.66
CPR (%)	38.77

Table 1. Baseline information for embryos not exhibiting an abnormal division pattern Including total number of embryos, number of embryos transferred, number of embryo transfers, number of embryos cryopreserved and discarded, number of embryos classified as good (GQE), average (AQE) and poor (PQE) quality, total fetal heartbeats (fhs), count of fhs (regardless of number), implantation rate (IR), clinical pregnancy rate (CPR). IR was calculated as sum fhs/embryos transferred. CPR was calculated as count fhs/embryo transfers.


	Affected embryos (n)	Treatment cycles (n)	Patient age (mean ± S.D)	p-value	Oocytes collected (mean ± S.D)	p-value	Previous attempts (mean ± S.D)	p-value
TDC	48	45						
FDC	69	64	32.82 ± 4.7	<0.0001	12.95 ± 7.78	<0.0001	1.37 ± 0.93	>0.05
UDC	580	463						
RC	65	61	32.5 ± 4.5	0.0097	15.7 ± 9.7	<0.0001	1.23 ± 0.6	0.2663
AC	133	123	33.16 ± 5.41	0.0629	15.09 ± 8.57	<0.0001	1.35 ± 0.8	0.8438
CC	835	459	32.93 ± 4.87	<0.0001	13.44 ± 8.5	<0.0001	1.39 ± 0.82	0.6765
CL	81	71	33.24 ± 4.27	0.1381	13.86 ± 7.79	<0.0001	1.28 ± 0.78	0.4422
Normal	14008	3273	34.08 ± 4.73	-	10.5 ± 5.99	-	1.37 ± 0.98	-

Table 2. Baseline information for embryos undergoing an abnormal division pattern including the total number of affected embryos, the number of treatment cycles these pertain to, the mean patient age, oocytes collected and previous attempts. The mean patient age, oocytes collected and previous attempts were statistically analysed against the normal embryo cohort for significant differences (student t-test, significant at p<0.05).

	Embryos (n)	Cycles (n)	Affected embryos/cycle	Prevalence/embryo (%)	Prevalence/cycle (%)	Transfer	Freeze	Discard	GQE (n (%))	AQE (n (%))	PQE (n (%))	Abnormal embryos transferred (n)			FHS (n)	IR (%)	p-value
												Total	D3	D5			
TDC	48	45	1.07	0.3	0.9	3	11	34	10 (20.8)	8 (16.7)	30 (62.5)	1	0	1	0	0	>0.05
FDC	69	64	1.08	0.43	1.2	9	29	31	11 (16.0)	21 (30.4)	37 (53.6)	6	0	6	2	33.3	>0.05
UDC	580	463	1.25	3.65	9.0	33	70	477	69 (11.9)	101 (17.4)	410 (70.7)	16	5	10 (1xDET)	2	12.5	0.0378

Total DC	697	572	1.22	4.38	11.1	45	110	542	90 (12.9)	130 (18.7)	477 (68.4)	23	5	17 (1xDET)	4	17.4	0.05
RC	65	61	1.07	0.41	1.2	14	22	29	15 (23.1)	10 (15.4)	40 (61.5)	9	2 (1xDET)	6	0	0	0.0153
AC	133	123	1.08	0.84	2.4	7	10	116	6 (4.5)	5 (3.8)	122 (91.7)	4	1	2 (1xDET)	1	25	>0.05
CC*	835	459	1.82	5.25	8.9	85	69	681	28 (18.2)	42 (27.3)	84 (54.5)	48	20 (5xDET)	17 (6xDET)	1	2.1	<0.0001
CL	81	71	1.14	0.51	1.4	5	31	45	11 (13.6)	22 (27.2)	48 (59.2)	2	0	2	0	0	0.5257
Overall	1811	1286	1.41	11.39	25.0	156	242	1413	-	-	-	86	28 (6xDET)	44 (8xDET)	6	6.9	<0.0001
Normal embryos	14008	3273	-	-	-	3456	4574	5978	5128 (36.6)	2468 (17.6)	6412 (45.8)	-	-	-	1336	38.66	-

Table 3. Descriptive data regarding embryos that underwent an abnormal division pattern where Total DC constitutes TDC, FDC and UDC collectively. The total number of affected embryos, number of affected treatment cycles, the number of affected embryos per treatment cycle, prevalence per embryo (defined as number of affected embryos/total number of embryos), prevalence per cycle (defined as number of affected treatment cycles/total number of treatment cycles), their fate, their quality, the total number of abnormal embryos transferred at either cleavage stage (D3) or blastocyst stage (D5) including the number of double embryo transfers (DET) and the IR of transferred embryos that were abnormal is shown. The IR of these embryos was then compared to that of the normal embryo cohort for statistical significance (Fisher's exact, significant at p<0.05).

\*only transferred and frozen embryos assessed for quality for this category due to significant missing data.