

Supplemental Table 1. Description of the study population for all cycles included in the calculation of live birth rate.

		Oocyte Source and Day of Transfer					
		Autologous			Donor		
		Day 2-3	Day 5-6	P Value	Day 2-3	Day 5-6	P Value
(N)		103,852	90,775		14,744	22,444	
Maternal	Mean (SD)	34.2±4.6	33.2±4.1	<0.0001	41.4±4.9	41.3±4.9	0.41
Age (years)	18-29	18.4	22.6	<0.0001	2.6	2.6	0.91
	30-34	39.4	43.3		8.6	8.6	
	35-37	21.0	21.3		10.5	10.8	
	38-40	12.8	10.3		18.7	19.0	
	41-43	6.7	2.4		28.6	28.4	
	≥44	1.6	0.3		31.0	30.6	
Race/Ethnicity (%)	White	74.7	73.3	<0.0001	79.1	75.7	<0.0001
	Hispanic	11.3	14.0		5.0	5.6	
	Asian	6.2	6.8		8.6	11.0	
	Black	4.2	4.4		5.6	5.6	
	Mixed	1.2	1.7		1.3	1.7	
	Other	0.5	0.6		0.4	0.5	
	Unknown	38.0	34.4	41.5	35.8		
Prior Births (%)	0	77.3	76.3	<0.0001	75.1	73.8	0.016
	1	16.4	16.0		16.9	18.0	
	≥2	6.3	7.7		8.0	8.2	
Number of Diagnoses (%)	1	80.2	81.1	<0.0001	77.3	75.5	<0.0001
	≥2	19.8	18.9		22.7	24.5	
Diagnosis (%)	Male factor	39.4	39.0	0.13	18.1	19.5	0.0011
	Endometriosis	12.8	11.3	<0.0001	7.0	6.6	0.23
	Ovulation Disorders	14.1	20.3	<0.0001	4.6	5.2	0.0031
	Diminished Ovarian Reserve	15.2	8.2	<0.0001	72.0	76.7	<0.0001
	Tubal factors (all)	18.8	18.5	0.063	8.6	7.8	0.011
	Tubal ligation	2.9	3.1	0.0031	1.6	1.5	0.49
	Tubal Hydrosalpinx	1.4	1.6	0.0048	0.5	0.5	0.83
	Tubal-Other	14.1	13.4	<0.0001	6.3	5.6	0.0016
	Uterine factor	4.0	3.9	0.48	4.2	4.5	0.30
	Other factor	10.7	13.8	<0.0001	18.5	17.7	0.050
Unexplained	14.7	13.8	<0.0001	3.9	3.3	0.0058	
Number of Oocytes Retrieved (%)	1-5	25.7	3.1	<0.0001	4.8	0.6	<0.0001
	6-10	30.3	18.4		20.1	9.0	
	11-15	21.6	28.1		26.1	20.7	
	16-25	18.0	37.3		34.0	43.0	
	≥26	4.4	13.0		15.0	26.7	

Supplemental Table 2. Description of the study population for cycles which led to a singleton live birth

		Oocyte Source and Day of Transfer					
		Autologous			Donor		
		Day 2-3 (N)	Day 5-6 (26,311)	P Value	Day 2-3 (4,643)	Day 5-6 (29,567)	P Value
Maternal	Mean (SD)	32.9 (3.9)	32.9 (3.9)	0.99	41.3 (4.8)	41.4 (4.8)	0.41
Age (years)	18-29	22.8	23.4		2.6	2.3	
	30-34	47.1	45.6		8.8	8.8	
	35-37	20.8	21.0		10.5	10.3	
	38-40	7.6	8.8		18.6	19.1	
	41-43	1.6	1.2		29.3	28.5	
	≥44	0.1	0.1		30.2	31.0	
Race/Ethnicity (%)	White	78.6	75.8	<0.0001	81.4	77.6	<0.0001
	Hispanic	6.5	7.0		4.3	5.2	
	Asian	8.6	9.4		8.5	10.8	
	Black	4.9	5.6		4.7	4.3	
	Mixed	1.0	1.7		1.1	1.7	
	Other	0.4	0.5		0.1	0.4	
	Unknown	37.6	34.5		41.2	36.4	
Prior Births (%)	0	78.0	76.9	<0.0001	75.3	73.7	0.16
	1	16.1	16.2		17.7	18.7	
	≥2	5.9	6.9		7.0	7.6	
Number of Diagnoses (%)	1	82.1	82.0	0.85	78.8	76.1	0.0007
	≥2	17.9	18.0		21.2	23.9	
Diagnosis (%)	Male factor	41.3	39.8	0.0006	17.9	19.4	0.033
	Endometriosis	13.3	11.4	<0.0001	6.5	6.4	0.79
	Ovulation Disorders	16.3	20.8	<0.0001	4.2	5.1	0.016
	Diminished Ovarian Reserve	8.8	6.8	<0.0001	72.8	77.3	<0.0001
	Tubal factors (all)	17.7	17.1	0.043	7.2	6.4	0.083
	Tubal ligation	2.9	2.7	0.38	1.0	1.2	0.30
	Tubal Hydrosalpinx	1.2	1.4	0.0084	0.6	0.5	0.61
	Tubal-Other	13.4	12.5	0.0047	5.6	4.5	0.0063
	Uterine factor	2.9	3.4	0.0006	3.9	4.0	0.81
	Other factor	9.8	12.9	<0.0001	18.4	17.7	0.271
Unexplained	15.9	14.8	0.0002	4.2	3.2	0.0063	
Number of Oocytes Retrieved (%)	1-5	15.7	2.3	<0.0001	3.6	0.5	<0.0001
	6-10	30.9	17.6		18.7	8.9	
	11-15	25.8	28.2		26.0	20.7	
	16-25	22.2	38.6		35.8	42.5	
	≥26	5.4	13.2		16.0	27.4	
Infant Gender (%)	Male	49.2	51.3	<0.0001	49.3	52.0	0.0021