

Supplemental Table 1. Mean age and percent of cycles as a function of the number of oocytes retrieved at each diagnosis. The row for each diagnosis totals 100%. N=number of cycles.

		Number of Oocytes Retrieved						
		N	1-5	6-10	11-15	16-20	21-25	>25
Female age			38.0±4.3	36.3±4.5	35.1±4.5	34.4±4.5	33.9±4.4	33.4±4.4
(mean years±SD)								
Diagnosis								
Male	252,578	13.9	28.9	25.7	16.1	8.5	7.0	
Endometriosis	77,886	17.6	31.8	24.8	14.0	6.8	5.1	
Ovulation Disorders	96,107	8.7	22.0	24.7	19.5	11.9	13.1	
Diminished Ovarian Reserve	128,849	34.5	36.4	17.3	7.1	2.8	1.8	
All tubal	112,517	17.7	17.4	17.1	16.7	16.5	15.4	
Uterine	31,130	19.2	31.2	23.9	13.5	6.7	5.6	
Other	88,661	13.3	13.4	13.3	13.5	13.4	14.5	
Unexplained	89,582	12.7	30.4	26.9	16.3	7.9	5.9	

Supplemental Table 2. Live birth rate per cycle as a function of gonadotropin dose and number of oocytes retrieved for the agonist suppression (long) protocol which represented 48.9% of all cycles in the dataset. The symbol --- indicates that the total cell count was <100.

FSH Dose (IU)	Number of Oocytes Retrieved						
	All	1-5	6-10	11-15	16-20	21-25	>25
<hr/> All ages							
<1000	47.0	25.7	47.1	48.5	51.5	48.1	44.4
1000-2000	46.4	30.2	43.2	47.7	49.4	48.9	45.7
2001-3000	42.1	26.2	39.3	44.3	46.0	45.2	43.0
3001-4000	35.8	21.8	34.4	39.3	40.4	40.3	37.6
4001-5000	30.3	18.2	30.2	34.1	36.3	35.4	36.3
≥5001	22.4	13.8	23.8	28.6	28.6	28.7	31.9
<hr/> Age ≤34 years							
<1000	49.4	29.6	50.2	51.0	53.1	50.0	45.4
1000-2000	48.8	34.4	45.8	50.6	51.3	51.5	46.8
2001-3000	46.3	33.0	43.6	48.4	49.3	47.9	45.6
3001-4000	42.4	29.9	41.7	45.3	44.2	44.6	41.3
4001-5000	38.2	26.1	37.6	41.3	41.7	43.4	42.2
≥5001	31.6	24.3	33.0	35.0	34.4	30.0	37.7
<hr/> Age 35-39 years							
<1000	42.2	---	41.4	41.9	46.6	43.5	45.7
1000-2000	42.0	25.5	39.4	42.1	46.3	43.1	43.7
2001-3000	38.9	23.8	36.9	40.6	43.2	42.7	40.2
3001-4000	34.2	22.1	33.0	37.1	39.4	37.7	37.0
4001-5000	31.3	20.4	31.8	34.8	36.7	32.2	35.6

≥5001	24.8	16.1	26.5	30.8	29.9	32.7	33.5
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Age ≥40 years

<1000	17.0	---	---	---	---	---	---
1000-2000	25.9	11.4	23.2	27.1	27.3	31.0	32.7
2001-3000	23.2	10.2	21.3	25.7	26.8	29.1	30.6
3001-4000	19.4	9.1	17.9	23.2	26.6	28.5	23.3
4001-5000	16.0	8.8	16.3	18.7	23.1	22.9	23.1
≥5001	11.3	6.1	12.5	17.4	17.4	18.5	---

Supplemental Table 3. Live birth rate per cycle as a function of gonadotropin dose and number of oocytes retrieved for the agonist flare protocol which represented 12.4% of all cycles in the dataset. The symbol --- indicates that the total cell count was <100.

FSH Dose (IU)	Number of Oocytes Retrieved						
	All	1-5	6-10	11-15	16-20	21-25	>25
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All ages							
<1000	33.8	30.3	25.0	43.6	---	---	---
1000-2000	33.0	20.6	30.9	35.3	40.1	37.4	38.0
2001-3000	29.4	17.2	29.2	33.0	36.5	36.9	36.4
3001-4000	26.5	16.9	26.8	32.2	32.0	35.7	35.6
4001-5000	24.2	15.4	25.6	30.6	31.9	28.4	27.5
≥5001	18.8	11.7	21.6	26.0	26.1	25.1	27.5
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Age ≤34 years							
<1000	40.8	---	---	---	---	---	---
1000-2000	40.4	28.7	39.5	43.1	46.4	36.9	40.9
2001-3000	38.5	30.9	37.8	40.1	41.3	41.8	38.7
3001-4000	37.4	28.2	36.6	42.3	41.5	41.1	42.7
4001-5000	34.1	24.9	35.4	38.8	40.6	33.7	28.9
≥5001	30.2	21.0	32.9	37.4	36.2	33.9	---
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Age 35-39 years							
<1000	33.9	---	---	---	---	---	---
1000-2000	31.1	21.2	29.4	31.6	35.7	43.8	---
2001-3000	31.2	19.0	31.4	34.5	39.3	37.5	39.2
3001-4000	29.9	20.7	30.8	34.5	34.4	39.4	35.1
4001-5000	28.0	19.3	29.3	34.5	33.7	33.2	31.9

≥5001	22.4	15.7	24.8	28.5	28.0	26.5	---
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Age ≥40 years

<1000	11.7	---	---	---	---	---	---
1000-2000	16.7	9.2	17.0	16.8	24.8	---	---
2001-3000	16.4	8.8	17.4	20.1	23.5	23.1	---
3001-4000	14.8	9.0	14.6	20.3	19.6	24.2	26.8
4001-5000	13.8	8.1	15.0	18.7	21.7	16.7	20.0
≥5001	10.6	5.6	13.2	16.5	16.7	16.4	---

Supplemental Table 4. Live birth rate per cycle as a function of gonadotropin dose and number of oocytes retrieved for the antagonist protocol which represented 37.1% of all cycles in the dataset. The symbol --- indicates that the total cell count was <100.

FSH Dose (IU)	Number of Oocytes Retrieved						
	All	1-5	6-10	11-15	16-20	21-25	>25
<hr/> All ages							
<1000	37.3	16.6	38.0	43.8	47.6	47.0	37.4
1000-2000	40.0	22.6	39.5	43.1	44.4	42.9	39.0
2001-3000	34.6	20.2	33.4	37.7	39.3	38.8	35.0
3001-4000	28.7	18.0	28.3	32.2	34.0	34.0	32.3
4001-5000	24.2	15.1	25.3	28.2	29.2	29.6	26.5
≥5001	18.9	12.2	20.8	24.7	24.9	23.0	22.2
<hr/> Age ≤34 years							
<1000	43.4	35.8	41.7	45.2	47.5	50.5	37.2
1000-2000	44.7	33.9	44.7	47.3	47.3	45.1	40.4
2001-3000	41.6	29.1	40.8	44.8	43.8	43.5	37.5
3001-4000	37.6	26.2	37.7	39.8	39.7	39.4	38.2
4001-5000	34.3	25.9	37.0	36.1	36.1	34.6	28.2
≥5001	28.6	20.7	30.5	33.6	30.9	27.1	27.2
<hr/> Age 35-39 years							
<1000	35.0	13.9	34.9	42.0	49.1	---	---
1000-2000	36.8	22.8	37.3	39.3	41.5	38.9	35.7
2001-3000	33.4	22.7	33.8	35.2	37.4	35.5	33.8
3001-4000	30.7	22.5	31.0	32.9	34.9	34.8	30.8
4001-5000	27.2	19.1	28.2	30.4	31.2	30.9	30.1

≥5001	22.9	16.5	24.7	27.6	28.4	24.0	23.6
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Age ≥40 years

<1000	13.1	3.8	---	---	---	---	---
1000-2000	17.4	7.7	17.3	22.8	23.7	28.0	27.6
2001-3000	17.4	9.2	16.9	19.6	24.6	23.7	22.9
3001-4000	14.9	9.2	14.7	18.4	20.1	19.7	18.6
4001-5000	13.5	7.6	14.3	17.7	18.1	20.1	17.3
≥5001	10.4	6.2	11.9	14.7	15.8	17.5	13.3

Supplemental table 5. Percentage of cycles as a function of the number of oocytes retrieved at each FSH dose with analysis limited to cycles with good prognosis (<35 years of age, BMI<30, no diagnosis of diminished ovarian reserve, endometriosis, or ovulatory disorder). Each row totals 100%. N=number of cycles.

FSH dose (IU)	N	Number of Oocytes Retrieved					
		1-5	6-10	11-15	16-20	21-25	>25
<1000	3304	6.8	21.6	27.8	21.7	12.0	10.0
1000-2000	41365	4.2	19.2	27.6	22.8	13.8	12.3
2001-3000	44474	5.4	23.8	29.8	21.1	11.1	8.9
3001-4000	18225	8.5	29.6	29.9	17.7	8.2	6.1
4001-5000	10767	12.5	33.8	29.2	14.2	6.5	3.8
≥5001	7149	20.4	38.9	24.5	10.4	3.5	2.3
Total	125284	7.0	24.8	28.7	20.0	10.8	8.8