

Supplemental Table 1. Baseline characteristics^a of 473 women in the Environment and Reproductive Health (EARTH) Study by typical work shift.

	Typical work shift		P-value ^b
	Day shift (n=431)	Evening/Night/ Rotating shift (n=42)	
Baseline characteristics			
Age, years	35.0 (32.0, 38.0)	35.0 (32.0, 37.0)	0.45
Race/Ethnic group, n (%)			0.83
White/Caucasian	363 (84.2)	37 (88.1)	
Black	7 (1.6)	1 (2.4)	
Asian	41 (9.5)	3 (7.1)	
Other	20 (4.7)	1 (2.4)	
Body Mass Index, kg/m ²	23.1 (21.1, 26.1)	23.5 (21.4, 28.2)	0.32
Smoking status, n ^c (%)			0.99
Never smoked	315 (73.1)	30 (73.2)	
Former smoker	105 (24.4)	10 (24.4)	
Current smoker	11 (2.5)	1 (2.4)	
Education, n (%)			0.006
< College graduate	32 (7.4)	7 (16.7)	
College graduate	134 (31.1)	19 (45.2)	
Graduate degree	265 (61.5)	16 (38.1)	
Total physical activity (hr/week)	5.0 (2.5, 9.2)	8.5 (4.5, 14.0)	0.003
Reproductive characteristics, n (%)			
History of ever been pregnant	173 (40.1)	15 (35.7)	0.62
History of been treated for infertility	203 (47.1)	23 (54.8)	0.42
Previous infertility exam	342 (79.4)	37 (88.1)	0.23
Initial infertility diagnosis			0.83
Male factor	115 (26.7)	9 (21.4)	
Female factor	127 (29.4)	14 (33.4)	
Diminished Ovarian Reserve	42 (9.7)	4 (9.6)	
Endometriosis	23 (5.3)	3 (7.1)	
Ovulation Disorders	30 (7.0)	5 (11.9)	
Tubal	23 (5.3)	2 (4.8)	
Uterine	9 (2.1)	0 (0)	
Unexplained	189 (43.9)	19 (45.2)	

^aValues are presented as median (IQR) unless otherwise noted.

^bFrom Kruskal-Wallis test for continuous variables and chi-squared tests (or Fisher's exact test where appropriate) for categorical variables.

^cThis variable has 1 missing.

^dFollicular phase GnRH-agonist/Flare protocol.

^eLuteal phase GnRH-agonist protocol.

Abbreviations: IQR, interquartile range; N, number.

Supplemental Table 2. Adjusted^a mean oocyte yields by frequency of moving heavy objects, level of physical exertion and typical work shift among 313 women contributing 462 fresh IVF cycles in the Environment and Reproductive Health (EARTH) Study.

Occupational Characteristics (number of fresh IVF cycles)	Total Oocyte Yield, n			Mature (MII) Oocyte Yield, n		
	Further adjusted for moving heavy objects	Further adjusted for physical exertion level	Further adjusted for typical work shift	Further adjusted for moving heavy objects	Further adjusted for physical exertion level	Further adjusted for typical work shift
Moving or lifting heavy objects						
Never (n=276)	-	11.2 (10.5, 12.0)	11.3 (10.6, 12.1)	-	9.6 (8.9, 10.3)	9.6 (9.0, 10.2)
Sometimes/Often (n=186)	-	10.6 (9.7, 11.6)	10.4 (9.6, 11.3)	-	8.5 (7.8, 9.2)	8.4 (7.7, 9.1)
P-value	-	0.34	0.15	-	0.04	0.01
Level of physical exertion						
Light (n=356)	11.2 (10.6, 11.9)	-	11.2 (10.5, 11.8)	9.3 (8.7, 9.9)	-	9.3 (8.8, 9.9)
Moderate/Heavy (n=106)	10.1 (9.0, 11.4)	-	10.2 (9.1, 11.4)	8.6 (7.6, 9.6)	-	8.5 (7.5, 9.5)
p-value	0.14	-	0.17	0.25	-	0.16
Typical work shift						
Day-shift (n=426)	11.1 (10.6, 11.8)	11.1 (10.6, 11.7)	-	9.3 (8.8, 9.8)	9.3 (8.8, 9.8)	-
Evening/Night/Rotating-shift (n=36)	8.9 (7.4, 10.7)	9.1 (7.5, 11.0)	-	7.2 (5.9, 8.6)	7.3 (6.0, 8.8)	-
p-value	0.02	0.04	-	0.001	0.02	-

^aData are presented as predicted marginal means (95% CI) adjusted for age (continuous), BMI (continuous), education (less than college graduate, college graduate and graduate degree) and infertility diagnosis (male, female and unexplained).