Supplementary Table SIII Sensitivity analyses for semen parameters among men at a fertility center who reported most frequently wearing boxers compared to men who did not.

Type of underwear	Ejaculate volume (mL)	Sperm concentration (mil/mL)	Total sperm count (mil/ejaculate)	Total motility (%)	Total motile count (mil/ejaculate)	Normal morphology ^b (%)	Normal morphology count ^b (mil/ejaculate)
Adjusted ^b	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •			
Primarily wearing boxers	2.94 (2.79, 3.11)	60.5 (54.7, 67.0)	153 (138, 170)	48.7 (46.3, 51.0)	62.7 (53.7, 73.3)	6.61 (6.21, 7.11)	8.2 (7.0, 9.6)
Not primarily wearing boxers	3.05 (2.79, 3.21)	48.5 (43.2, 54.5)	131 (116, 148)	46.1 (43.6, 48.6)	47.3(38.9, 57.5)	6.70 (6.21, 7.02)	7.4 (6.2, 8.7)
P-value	0.42	0.004	0.05	0.13	0.02	0.75	0.38
Adjusted ^b + history of varicocele							
Primarily wearing boxers	2.85 (2.69, 3.01)	59.3 (53.4, 65.9)	146 (131, 162)	49.0 (46.5, 51.5)	60.1 (51.0, 70.8)	6.53 (6.12, 6.94)	7.7 (6.5, 9.0)
Not primarily wearing boxers	3.02 (2.85, 3.17)	47.5 (41.9, 53.8)	128 (112, 145)	45.6 (43.0, 48.3)	45.1 (36.5, 55.8)	6.49 (6.08, 6.89)	7.0 (5.9, 8.5)
P-value	0.16	0.006	0.11	0.06	0.03	0.88	0.50
Adjusted ^b + hot bath/jacuzzi							
Primarily wearing boxers	2.95 (2.79, 3.11)	60.4 (54.6, 66.9)	152 (138, 169)	48.6 (46.3, 51.1)	62.3 (53.2, 72.9)	6.61 (6.21, 7.02)	8.2 (6.9, 9.6)
Not primarily wearing boxers	3.06 (2.90, 3.22)	48.7 (43.3, 54.6)	131 (117, 148)	46.2 (43.7, 48.6)	47.8 (39.4, 58.0)	6.70 (6.29, 7.11)	7.4 (6.2, 8.8)
P-value	0.33	0.005	0.06	0.14	0.02	0.76	0.39
Adjusted ^b , restricted first semen sample							
Primarily wearing boxers	3.00 (2.85, 3.17)	58.3 (52.0, 65.3)	150 (134, 169)	47.4 (45.0, 49.8)	59.4 (49.7, 71.0)	6.67 (6.24, 7.11)	8.2 (6.9, 9.8)
Not primarily wearing boxers	3.03 (2.86, 3.20)	44.4 (39.4, 50.0)	118 (104, 133)	44.7 (42.1, 47.2)	41.4 (34.3, 49.9)	6.65 (6.18, 7.11)	6.3 (5.3, 7.6)
P-value	0.85	0.001	0.005	0.12	0.01	0.94	0.04

Mil, million.

aData are presented as predicted marginal means (95% CI).
bModels are adjusted for age (continuous), BMI (continuous), smoking status (ever and never smoked), abstinence time (continuous) and year of semen sample collection (continuous).