

**Table SII** Estimated percent changes and 95% CIs for semen quality parameters associated with underweight, overweight and obesity compared with normal weight in non-smoking sperm donors<sup>a</sup>.

Characteristic	Underweight		Normal Percent change (95% CI)	Overweight		Obese	
	Percent change (95% CI)	P		Percent change (95% CI)	P	Percent change (95% CI)	P
Semen volume, ml	-5.3 (-10.4, 0.1)	0.054	0 (ref.)	-4.7 (-7.8, -1.4)	0.005	4.4 (-8.1, 18.6)	0.51
Sperm concentration, 10 <sup>6</sup> /ml	-2.5 (-6.0, 1.0)	0.16	0 (ref.)	-0.3 (-2.4, 1.9)	0.81	0.0 (-8.0, 8.7)	0.99
Total sperm number, 10 <sup>6</sup>	-8.0 (-13.5, -2.1)	0.009	0 (ref.)	-5.0 (-8.5, -1.3)	0.008	3.8 (-10.1, 19.9)	0.61
Total motility, %	-0.3 (-2.1, 1.6)	0.74	0 (ref.)	-0.0 (-1.1, 1.1)	0.99	1.7 (-2.6, 6.1)	0.44
Progressive motility, %	-0.0 (-2.0, 2.0)	0.96	0 (ref.)	0.2 (-1.0, 1.5)	0.70	1.3 (-3.4, 6.1)	0.60
Total motile sperm count, 10 <sup>6</sup>	-8.3 (-14.3, -1.7)	0.014	0 (ref.)	-5.0 (-8.9, -1.0)	0.015	5.9 (-9.6, 24.0)	0.48

<sup>a</sup>BMI was categorized using the WHO criteria. Linear mixed models were used to estimate percent changes and 95% CIs with adjustment for age, ethnicity, education, marital status, abstinence period and season.