

**Supplementary Table SII Sperm DNA damage parameters<sup>a</sup> among men at a fertility center who reported most frequently wearing boxers (156 men, 156 semen samples) compared to men who did not (137 men, 137 semen samples).**

Type of underwear	Comet extent (μm)	Tail distributed moment (μm)	Percentage DNA in tail (%)	Cells with high DNA damage (n)
Unadjusted				
Primarily wearing boxers	128 (122, 135)	32.5 (30.2, 34.9)	56.6 (54.3, 58.9)	7.5 (7.1, 8.0)
Not primarily wearing boxers	134 (128, 141)	32.8 (30.2, 35.3)	57.7 (55.2, 60.1)	8.5 (8.0, 9.0)
P-value	0.23	0.90	0.53	0.005
Adjusted <sup>b</sup>				
Primarily wearing boxers	128 (122, 135)	32.2 (30.3, 34.0)	56.7 (54.4, 59.0)	7.6 (7.2, 8.1)
Not primarily wearing boxers	134 (127, 141)	33.2 (31.3, 35.1)	57.5 (55.1, 60.0)	7.9 (7.4, 8.4)
P-value	0.28	0.44	0.64	0.44

<sup>a</sup>Data are presented as predicted marginal means (95% CI).

<sup>b</sup>Models are adjusted for age (continuous), BMI (continuous), smoking status (ever and never smoked), abstinence time (continuous) and year of semen sample collection (continuous).