

Supplementary Table SVIII Adjusted semen quality parameters according to marijuana smoking status.

Reproductive parameters	Marijuana smoking			
	Adjusted means (95% CI) ^a			
Semen Quality Parameters	Never (Reference) N = 293 men, 485 samples	Ever N = 362 men, 650 samples	Past N = 289 men, 524 samples	Current N = 73 men, 126 samples
Ejaculate volume, mL	2.51 (2.30, 2.73)	2.40 (2.26, 2.54)	2.42 (2.27, 2.58)	2.30 (2.04, 2.60)
Sperm concentration, million/mL	45.2 (38.4, 53.2)	62.8 (56.0, 70.4)*	63.6 (56.2, 72.1)*	59.5 (47.2, 75.0)*
Total sperm count, million	113 (96.1, 133)	150 (134, 168)*	153 (135, 173)*	139 (110, 175)
% Total Sperm Motility	45.4 (41.4, 49.4)	49.4 (46.2, 52.5)*	49.4 (46.1, 52.7)*	49.4 (43.9, 54.8)
% Progressive Sperm Motility	27.2 (24.5, 29.9)	29.6 (27.5, 31.8)	29.7 (27.4, 32.0)	29.4 (25.6, 33.1)
% Normal Sperm Morphology	6.43 (5.80, 7.06)	6.80 (6.36, 7.24)	6.91 (6.43, 7.39)	6.37 (5.47, 7.26)

Abbreviations: CI; confidence interval, N; number.

^aAdjusted marginal means were estimated using linear mixed models and a random intercept for each man for the semen quality parameters and linear regression models for the reproductive hormone concentrations and DNA integrity. The adjusted marginal means in each exposure category were adjusted for the covariates at their average levels for continuous variables and weighted average level of categorical variable in the model including age (years, continuous), race (white/not), sexual abstinence time (days, categorical), body mass index (kg/m², continuous), tobacco smoking (yes/no), coffee (binary) and alcohol intake (binary), cocaine use (yes/no), and calendar year (continuous), with further adjusting for stress levels. Motility models were further adjusted for time elapsed between semen collection and analysis.

*P ≤ 0.05 compared to never, which were marginally significant in the original analysis compared to the new sensitivity analysis with further adjustment for stress levels.