

eTable 1. Adjusted ^a semen parameters according to processed meat intake by modeling abstinence time in different ways

Processed red meat intake (servings/day); range	Total sperm count (million)	Ejaculate volume (mL)
	Mean (95% CI)	Mean (95% CI)
Modeling abstinence time as dummy variables (original model)		
Q1 (0 - 0.42)	167 (117 to 239)	3.9 (3.4 to 4.4)
Q2 (0.44 - 0.85)	163 (120 to 221)	3.8 (3.4 to 4.3)
Q3 (0.87 - 1.44)	146 (112 to 191)	3.3 (2.9 to 3.7)
Q4 (1.45 - 5.26)	94 (68 to 129)	2.8 (2.4 to 3.2)*
Test for trend	<i>P</i> = 0.01	<i>P</i> = 0.003
Modeling abstinence time as dummy variables with finer categories <2 to 2-3 to 3-5 to and >5 days		
Q1 (0 - 0.42)	160 (110 to 233)	3.8 (3.3 to 4.3)
Q2 (0.44 - 0.85)	164 (121 to 221)	3.8 (3.4 to 4.3)
Q3 (0.87 - 1.44)	148 (114 to 192)	3.3 (2.9 to 3.7)
Q4 (1.45 - 5.26)	97 (71 to 133)	2.8 (2.4 to 3.3)
Test for trend	<i>P</i> = 0.02	<i>P</i> = 0.0005
Modeling abstinence time as continuous		
Q1 (0 - 0.42)	157 (110 to 223)	3.8 (3.3 to 4.3)
Q2 (0.44 - 0.85)	166 (123 to 223)	3.8 (3.4 to 4.3)
Q3 (0.87 - 1.44)	148 (114 to 192)	3.3 (2.9 to 3.7)
Q4 (1.45 - 5.26)	98 (70 to 135)	2.9 (2.5 to 3.3)
Test for trend	<i>P</i> = 0.03	<i>P</i> = 0.0008
Including a linear and a quadratic term		
Q1 (0 - 0.42)	157 (110 to 224)	3.8 (3.3 to 4.3)
Q2 (0.44 - 0.85)	163 (121 to 219)	3.8 (3.4 to 4.3)
Q3 (0.87 - 1.44)	149 (114 to 193)	3.3 (2.9 to 3.7)
Q4 (1.45 - 5.26)	99 (72 to 136)	2.9 (2.4 to 3.3)
Test for trend	<i>P</i> = 0.03	<i>P</i> = 0.0006
Not adjusting for abstinence time		

Q1 (0 - 0.42)	184 (130 to 261)	4.0 (3.5 to 4.5)
Q2 (0.44 - 0.85)	166 (121 to 228)	3.8 (3.4 to 4.3)
Q3 (0.87 - 1.44)	140 (107 to 185)	3.2 (2.9 to 3.6)
Q4 (1.45 - 5.26)	88 (63 to 123)	2.8 (2.3 to 3.2)
Test for trend	$P = 0.003$	$P < 0.0001$

^a Adjusted for age to abstinence time to race to smoking status to BMI to recruitment period to moderate-to-intense exercise to TV watching to dietary patterns to and total calorie intake

eTable 2. Adjusted ^a semen parameters (mean (95% confidence interval)) according to processed meat intake by modeling abstinence time in difference ways

Processed red meat intake (servings/day); range	Total sperm count (million)			Ejaculate volume (mL)		
	abstinence time <2days	abstinence time 2-5 days	abstinence time ≥ 5 days	abstinence time <2days	abstinence time 2-5 days	abstinence time ≥ 5 days
	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)	Mean (95% CI)
Q1 (0 - 0.42)	111 (76 to 161)	141 (90 to 223)	219 (79 to 603)	3.5 (2.6 to 4.5)	3.7 (3.1 to 4.3)	4.9 (3.1 to 6.7)
Q2 (0.44 - 0.85)	236 (124 to 450)	156 (111 to 219)	293 (134 to 638)	4.0 (2.8 to 5.3)	3.6 (3.1 to 4.0)	4.5 (3.3 to 5.7)
Q3 (0.87 - 1.44)	65 (41 to 103)	140 (103 to 189)	136 (46 to 405)	3.7 (2.6 to 4.7)	3.1 (2.6 to 3.5)	4.1 (2.5 to 5.8)
Q4 (1.45 - 5.26)	48 (34 to 67)	121 (85 to 173)	187 (39 to 892)	2.4 (1.6 to 3.2)	2.9 (2.5 to 3.4)	2.7 (0.1 to 5.3)
Test for trend	<i>P</i> = 0.006	<i>P</i> = 0.43	<i>P</i> = 0.32	<i>P</i> = 0.01	<i>P</i> = 0.03	<i>P</i> = 0.07
Test for heterogeneity		<i>P</i> = 0.051			<i>P</i> = 0.01	

^a Adjusted for age to abstinence time (as linear term in each stratum) to race to smoking status to BMI to recruitment period to moderate-to-intense exercise to TV watching to dietary patterns to and total calorie intake