

**Table S1** Association between dietary calcium intake and BPH risk in different models after including PSA, weighted

Variables	Model 1		Model 2		Model 3	
	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
Dietary calcium intake (100 mg)	1.03 (0.99–1.07)	0.10	1.04 (1.00–1.08)	0.03	1.05 (1.01–1.09)	0.02
Subgroup						
Q1 <508.25	1 (ref.)		1 (ref.)		1 (ref.)	
508.25 ≤ Q2 <758	1.84 (0.77–4.36)	0.16	1.72 (0.57–5.20)	0.32	1.60 (0.53–4.80)	0.38
758 ≤ Q3 <1,135.25	2.83 (1.27–6.30)	0.01	2.00 (0.83–4.81)	0.11	1.87 (0.66–5.29)	0.23
Q4 ≥1,135.25	2.06 (0.95–4.45)	0.07	2.35 (1.05–5.27)	0.03	2.30 (0.91–5.80)	0.08

Model 1: unadjusted; Model 2: adjusted for age, race, marital status, education level and PIR; Model 3: adjusted for age, race, marital status, education level and PIR, BMI, smoking, drink, diabetes, hypertension, and PSA. BMI, body mass index; BPH, benign prostatic hyperplasia; CI, confidence interval; OR, odds ratio; PIR, poverty income ratio; PSA, prostate-specific antigen; Q, quartile; ref., reference.

**Table S2** Association between dietary calcium intake and BPH risk in different models after including serum calcium, weighted

Variables	Model 1		Model 2		Model 3	
	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
Dietary calcium intake (100 mg)	1.03 (1.00–1.07)	0.08	1.04 (1.00–1.08)	0.03	1.05 (1.01–1.09)	0.01
Subgroup						
Q1 <508.25	1 (ref.)		1 (ref.)		1 (ref.)	
508.25 ≤ Q2 <758	2.05 (0.90–4.70)	0.09	1.98 (0.72–5.42)	0.18	2.07 (0.85–5.06)	0.11
758 ≤ Q3 <1,135.25	2.90 (1.31–6.38)	0.01	2.10 (0.92–4.78)	0.08	2.12 (0.87–5.16)	0.09
Q4 ≥1,135.25	2.22 (1.15–4.28)	0.02	2.55 (1.35–4.81)	0.005	2.81 (1.39–5.69)	0.006

Model 1: unadjusted; Model 2: adjusted for age, race, marital status, education level and PIR; Model 3: adjusted for age, race, marital status, education level and PIR, BMI, smoking, drink, diabetes, hypertension and serum calcium. BMI, body mass index; BPH, benign prostatic hyperplasia; CI, confidence interval; OR, odds ratio; PIR, poverty income ratio; Q, quartile; ref., reference.