

Table S4. Associations between tertiles of ln-transformed PFAS concentrations and risk of papillary thyroid carcinoma

PFAS	Tertile 1	Tertile 2		Tertile 3		P for trend	Trend_FDR
		OR(95%CI)	P	OR(95%CI)	P		
9Cl-PF3ONS							
Model 1	Reference	0.44(0.18,1.07)	0.074	0.36(0.14,0.88)	0.027	0.022	0.051
Model 2	Reference	0.34(0.11,1.02)	0.057	0.27(0.09,0.77)	0.017	0.013	0.036
PFHxS							
Model 1	Reference	1.22(0.51,2.98)	0.653	0.60(0.25,1.46)	0.264	0.248	0.316
Model 2	Reference	1.17(0.40,3.37)	0.777	0.50(0.16,1.51)	0.226	0.234	0.303
PFOS							
Model 1	Reference	0.74(0.30,1.78)	0.502	0.55(0.22,1.32)	0.181	0.182	0.316
Model 2	Reference	0.70(0.24,2.04)	0.510	0.31(0.10,0.92)	0.041	0.044	0.089
PFUnA							
Model 1	Reference	0.29(0.11,0.71)	0.008	0.29(0.11,0.71)	0.008	0.005	0.013
Model 2	Reference	0.18(0.05,0.55)	0.004	0.22(0.07,0.70)	0.012	0.005	0.025
PFDA							
Model 1	Reference	0.90(0.37,2.19)	0.822	0.44(0.18,1.08)	0.075	0.092	0.184
Model 2	Reference	1.19(0.38,3.77)	0.765	0.32(0.10,0.95)	0.046	0.076	0.132
PFBA							
Model 1	Reference	0.24(0.09,0.61)	0.004	0.11(0.04,0.29)	<0.001	<0.001	<0.001
Model 2	Reference	0.22(0.06,0.72)	0.015	0.10(0.03,0.32)	<0.001	<0.001	0.003
PFDoA							
Model 1	Reference	1.11(0.46,2.67)	0.823	0.91(0.37,2.18)	0.823	0.827	0.827
Model 2	Reference	1.31(0.43,3.98)	0.637	0.87(0.30,2.53)	0.798	0.819	0.819
PFHpA							
Model 1	Reference	1.00(0.41,2.41)	1.000	0.74(0.31,1.78)	0.503	0.521	0.561
Model 2	Reference	0.74(0.25,2.12)	0.573	0.76(0.25,2.26)	0.625	0.598	0.644
PFNA							
Model 1	Reference	0.67(0.27,1.61)	0.371	0.61(0.25,1.46)	0.265	0.247	0.316

Model 2	Reference	0.65(0.22,1.93)	0.441	0.50(0.17,1.48)	0.219	0.209	0.303
PFOA							
Model 1	Reference	0.44(0.18,1.08)	0.076	0.67(0.27,1.61)	0.370	0.309	0.361
Model 2	Reference	0.32(0.10,0.93)	0.041	0.67(0.23,1.95)	0.467	0.315	0.367
PFTeDA							
Model 1	Reference	3.89(1.56,10.16)	0.004	3.16(1.28,8.15)	0.015	0.247	0.316
Model 2	Reference	3.84(1.26,12.57)	0.021	3.28(1.09,10.45)	0.038	0.238	0.303
PFTrDA							
Model 1	Reference	0.81(0.33,1.99)	0.648	0.26(0.10,0.64)	0.004	0.005	0.013
Model 2	Reference	0.61(0.20,1.82)	0.382	0.21(0.06,0.66)	0.010	0.010	0.036

Note: OR, odds ratio; CI, confidence interval. Model 1 was unadjusted. Model 2 was adjusted for age, sex, BMI, residence, smoking status, and alcohol consumption. PFAS concentrations were categorized into tertiles based on their distributions among controls. Bold values indicate statistical significance ($P < 0.05$).