

Exposure to perfluoroalkyl substances and risk of hepatocellular carcinoma in a multiethnic cohort

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Fig. S1. Correlation between plasma PFAS concentrations at baseline in 50 HCC cases and 50 controls matched on age, sex, ethnicity, and study area from the Multiethnic Cohort.

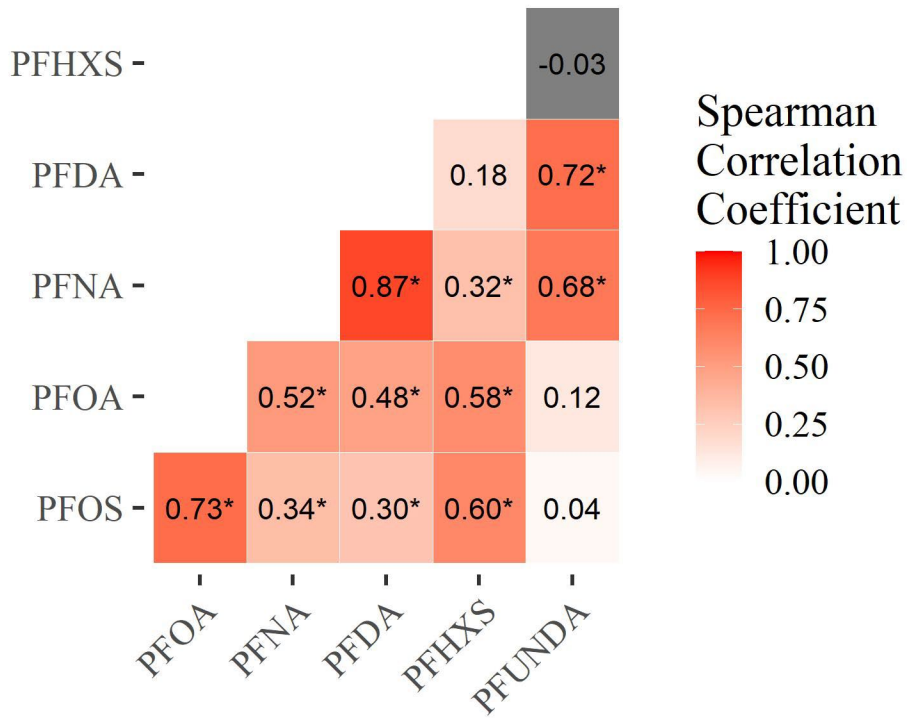


Table S1. Results of sensitivity analysis modeling PFAS as continuous exposures. Odds ratios and 95% confidence intervals for each standard deviation increase in prediagnostic serum concentrations of PFAS and risk of hepatocellular carcinoma in the Multiethnic Cohort.

Chemical Category	PFAS	Odds Ratio (95% CI)	p-value
PFSA's	PFOS	1.20 (0.91, 1.60)	0.18
	PFHxS	1.10 (0.89, 1.50)	0.29
PFCA's	PFOA	0.86 (0.64, 1.20)	0.36
	PFDA	0.95 (0.66, 1.40)	0.76
	PFNA	1.10 (0.81, 1.50)	0.51
	PFUdA	*	*

Table S2. Results of sensitivity analysis using ordinary logistic regression and controlling for the matching variables (age, sex, ethnicity, and study site). Odds ratios and 95% confidence intervals evaluating prediagnostic serum concentrations of PFAS levels and risk of hepatocellular carcinoma in the Multiethnic Cohort.

Chemical Category	PFAS	µg/L	Odds Ratio (95% CI)	p-value
PFSA's	PFOS	>54.9	4.40 (1.20, 20.00)	0.03
	PFHxS	>4.3	1.20 (0.38, 3.70)	0.77
PFCA's	PFOA	>8.6	1.20 (0.37, 3.80)	0.78
	PFDA	>0.8	0.85 (0.25, 2.80)	0.79
	PFNA	>1.5	1.20 (0.35, 4.10)	0.79
	PFUdA	>1.2	2.60 (0.77, 9.70)	0.14

Table S3. Results of a supplemental analysis adjusting for baseline Body Mass Index (BMI). Odds ratios and 95% confidence intervals evaluating prediagnostic serum concentrations of PFAS levels and risk of hepatocellular carcinoma in the Multiethnic Cohort.

Chemical Category	PFAS	µg/L	Odds Ratio (95% CI)	p-value
PFSA's	PFOS	>54.9	2.90 (0.78, 10.00)	0.11
	PFHxS	>4.3	1.10 (0.44, 2.60)	0.89
PFCA's	PFOA	>8.6	0.86 (0.34, 2.20)	0.75
	PFDA	>0.8	1.00 (0.42, 2.40)	0.99
	PFNA	>1.5	1.50 (0.64, 3.50)	0.35
	PFUdA	>1.2	2.70 (0.92, 7.80)	0.069

Table S4. Results of the sensitivity analysis adjusting for baseline Diabetes Mellitus Status. Odds ratios and 95% confidence intervals evaluating prediagnostic serum concentrations of PFAS levels and risk of hepatocellular carcinoma in the Multiethnic Cohort.

Chemical Category	PFAS	µg/L	Odds Ratio (95% CI)	p-value
PFSA's	PFOS	>54.9	5.70 (1.10, 30.00)	0.042
	PFHxS	>4.3	1.60 (0.63, 4.00)	0.32
PFCA's	PFOA	>8.6	1.40 (0.60, 3.40)	0.43
	PFDA	>0.8	0.54 (0.19, 1.50)	0.24
	PFNA	>1.5	1.40 (0.50, 3.70)	0.54
	PFUdA	>1.2	2.50 (0.74, 8.30)	0.14