

Supplemental Table 1: Logistic Regression* (Odds Ratio and 95% Confidence Interval) for PFAS Compounds with IgE levels in adolescent (ages 12-19) participants in NHANES 2005-2006

	Milk	Peanuts	Shrimp
n Cases/controls	42/595	77/557	57/577
PFOA Q1: ≤2.46 ng/mL	1.00	1.00	1.00
PFOA Q2: 2.47 – 3.78 ng/mL	0.57 (0.14, 2.33)	0.87 (0.41, 1.82)	0.66 (0.14, 3.11)
PFOA Q3: 3.79 – 5.36 ng/mL	0.40 (0.09, 1.78)	0.98 (0.31, 3.08)	2.12 (0.61, 7.37)
PFOA Q4: >5.36 ng/mL	1.08 (0.29, 4.08)	1.30 (0.75, 2.24)	0.51 (0.14, 1.94)
PFOS Q1: ≤10.65 ng/mL	1.00	1.00	1.00
PFOS Q2: 10.66 – 14.84 ng/mL	0.90 (0.16, 4.98)	1.30 (0.58, 3.92)	1.13 (0.35, 3.60)
PFOS Q3: 14.85 – 22.69 ng/mL	0.99 (0.25, 3.91)	1.38 (0.59, 3.24)	1.28 (0.56, 2.93)
PFOS Q4: >22.69 ng/mL	0.68 (0.13, 3.48)	0.76 (0.23, 2.51)	0.08 (0.01, 0.66)
PFNA Q1: ≤0.59 ng/mL	1.00	1.00	1.00
PFNA Q2: 0.60 – 0.89 ng/mL	0.39 (0.04, 4.07)	0.47 (0.13, 1.76)	0.36 (0.10, 1.33)
PFNA Q3: 0.90 – 1.36 ng/mL	0.62 (0.11, 3.58)	0.29 (0.13, 0.62)	0.56 (0.21, 1.50)
PFNA Q4: >1.36 ng/mL	0.55 (0.09, 3.49)	0.68 (0.28, 1.67)	0.29 (0.09, 0.93)
PFHxS Q1: ≤1.00 ng/mL	1.00	1.00	1.00
PFHxS Q2: 1.01 – 2.34 ng/mL	0.61 (0.18, 2.08)	1.21 (0.57, 2.57)	0.57 (0.26, 1.24)
PFHxS Q3: 2.35 – 4.29 ng/mL	1.15 (0.30, 4.36)	1.70 (0.66, 4.41)	0.23 (0.08, 0.64)
PFHxS Q4: >4.29 ng/mL	1.08 (0.32, 3.68)	0.66 (0.21, 2.06)	0.90 (0.37, 2.19)

* Adjusted for age, sex, race/ethnicity, BMI, c-Reactive Protein, Serum Cotinine

Supplemental Table 2: Logistic Regression* (Odds Ratio and 95% Confidence Interval) for PFAS Compounds with food sensitization** and self-reported food allergy outcomes in adolescent (ages 12-19) participants in NHANES 2005-2006 and 2007-2010, respectively

	Food Sensitization**	Food Allergy 2007-2010	
	2005-2006 IgE Levels	Self-Reported Questionnaire	Peanuts + Tree nuts + Shellfish + Fish
n Cases/controls		55/654	22/687
Ln_PFOA	1.02 (0.61, 1.68)	8.76 (3.53, 21.76)	5.11 (1.38, 18.89)
Ln_PFOS	0.82 (0.46, 1.45)	1.54 (1.02, 2.34)	1.96 (0.89, 4.32)
Ln_PFNA	0.83 (0.59, 1.16)	2.11 (0.91, 4.86)	0.78 (0.33, 1.84)
Ln_PFHxS	0.97 (0.79, 1.20)	1.30 (0.98, 1.73)	1.66 (0.97, 2.84)

* Adjusted for age, sex, race/ethnicity, BMI, and Serum Cotinine

** Food sensitization defined as having at least 1 food specific IgE level ≥ 0.35 kU/L