

Table S3. Distribution of serum PFAS concentrations among overweight or obese participants

PFAS	LOD (ng/mL)	ALL (n=63)		Control (n=22)		PTC (n=41)		P
		Detecti		Detecti		Detecti		
		on rate	P ₅₀ (P ₂₅ , P ₇₅)	on rate	P ₅₀ (P ₂₅ , P ₇₅)	on rate	P ₅₀ (P ₂₅ , P ₇₅)	
		(%)		(%)		(%)		
9CIPF3ONS	0.02	93.7	0.19 (0.07, 0.33)	95.5	0.22 (0.13, 0.35)	92.7	0.18 (0.05, 0.30)	0.199
PFBS	0.02	14.3	0.02 (0.02, 0.02)	36.4	0.02 (0.02, 0.02)	2.4	0.02 (0.02, 0.02)	0.021
PFHxS	0.10	23.8	0.07 (0.06, 0.09)	22.7	0.07 (0.06, 0.09)	24.4	0.07 (0.05, 0.09)	0.594
PFOS	0.01	100.0	1.06 (0.53, 1.71)	100.0	1.21 (0.67, 1.64)	100.0	1.01 (0.52, 1.79)	0.705
PFUnA	0.01	98.4	0.20 (0.07, 0.30)	100.0	0.25 (0.15, 0.36)	97.6	0.12 (0.07, 0.26)	0.027
PFDA	0.10	65.1	0.15 (0.08, 0.22)	68.2	0.18 (0.09, 0.24)	63.4	0.13 (0.07, 0.22)	0.264
PFBA	0.10	28.6	0.07 (0.07, 0.10)	40.9	0.09 (0.07, 0.13)	22.0	0.07 (0.06, 0.10)	0.005
PFD _o A	0.01	50.8	0.01 (0.01, 0.02)	68.2	0.01 (0.01, 0.02)	41.5	0.01 (0.01, 0.02)	0.061
PFHpA	0.01	60.3	0.01 (0.01, 0.02)	68.2	0.01 (0.01, 0.02)	56.1	0.01 (0.01, 0.02)	0.66
PFNA	0.10	60.3	0.12 (0.06, 0.18)	63.6	0.13 (0.07, 0.18)	58.5	0.12 (0.06, 0.17)	0.48
PFOA	0.05	100.0	0.89 (0.43, 1.22)	100.0	0.92 (0.63, 1.33)	100.0	0.85 (0.41, 1.15)	0.226
PFPeA	0.01	100.0	0.28 (0.17, 0.28)	100.0	0.28 (0.19, 0.28)	100.0	0.17 (0.17, 0.28)	0.021
PFTeDA	0.01	100.0	0.16 (0.16, 0.17)	100.0	0.16 (0.16, 0.17)	100.0	0.16 (0.16, 0.17)	0.099
PFTTrDA	0.01	47.6	0.01 (0.01, 0.03)	72.7	0.02 (0.01, 0.04)	34.1	0.01(0.01, 0.02)	0.007

Note: PFAS concentrations are presented as detection rates (%) and median (P₂₅, P₇₅).

Values below the limit of detection (LOD) were imputed as LOD/ $\sqrt{2}$. P values were calculated using the Mann – Whitney U test. Bold values indicate statistical significance ($P < 0.05$). PTC, papillary thyroid carcinoma.