**Supplementary table 1**. Number of pregnant women (and percentages) with blood pressure measurements at different gestational ages and number of measurements per women.

|  |  |  |
| --- | --- | --- |
| **Gestational age, weeks** | **SBP measurements**  **n (%)** | **DBP measurements**  **n (%)** |
| ≤12.0 | 1378 (96.0) | 1378 (96.0) |
| 12.1 to 16.0 | 634 (44.2) | 634 (44.2) |
| 16.1 to 20.0 | 215 (15.0) | 215 (15.0) |
| 20.1 to 24.0 | 585 (40.7) | 585 (40.7) |
| 24.1 to 28.0 | 927 (64.6) | 927 (64.6) |
| 28.1 to 32.0 | 1143 (79.6) | 1143 (79.6) |
| 32.1 to 36.0 | 1096 (76.3) | 1096 (76.3) |
| 36.1 to 40.0 | 1229 (85.6) | 1229 (85.6) |
| >40.0 | 342 (23.8) | 342 (23.8) |
| **Number of blood pressure measurements per woman** |  |  |
| 1 | 76 (5.3) | 76 (5.3) |
| 2 | 16 (1.1) | 16 (1.1) |
| 3 | 60 (4.2) | 60 (4.2) |
| 4 | 179 (12.5) | 179 (12.5) |
| 5 | 388 (27.0) | 388 (27.0) |
| 6 | 454 (31.6) | 454 (31.6) |
| 7 | 225 (15.7) | 225 (15.7) |
| 8 | 36 (2.5) | 36 (2.5) |
| 9 | 2 (0.1) | 2 (0.1) |

**Supplementary Table 2.** Adjusted\* β coefficientsfrom linear mixed models and hazard ratios (HR) and 95% confidence intervals (95% CI) between 1st trimester PFAS and gestational systolic and diastolic blood pressures (SBP and DBP) and HR for preeclampsia (PE) according to fetal sex among 1436 women. Associations are shown per doubling in PFAS concentrations.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Doubling of PFAS (ng/ml)** | **Female fetus, n=677** | | | | | | **Male fetus, n=759** | | | | | |
| **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios (95% CI)** | | **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios**  **(95% CI)** | |
|  | **SBP (mmHg)** | **p-value** | **DBP (mmHg)** | **p-value** | **PE** | **p-value** | **SBP (mmHg)** | **p-value** | **DBP (mmHg)** | **p-value** | **PE** | **p-value** |
| PFHxS | -0.28 (-0.89; 0.34) | 0.38 | -0.21 (-0.69; 0.26) | 0.38 | 1.24 (0.88; 1.73) | 0.22 | -0.78 (-1.49; 0.08) | 0.03 | -0.39 (-0.92; 0.13) | 0.14 | 1.03 (0.76; 1.39) | 0.84 |
| PFOS | 0.32 (-0.53; 1.17) | 0.46 | 0.48 (-0.17; 1.14) | 0.15 | 1.16 (0.74; 1.82) | 0.50 | 0.66 (-0.20; 1.52) | 0.13 | 0.71 (0.07; 1.36) | 0.03 | 0.95 (0.65; 1.37) | 0.77 |
| PFOA | 0.40 (-0.40; 1.21) | 0.33 | 0.20 (-0.42; 0.81) | 0.53 | 1.09 (0.73; 1.62) | 0.68 | 0.35 (-0.41; 1.11) | 0.37 | 0.52 (-0.05; 1.09) | 0.07 | 0.90 (0.65; 1.24) | 0.50 |
| PFNA | -0.16 (-1.07; 0.75) | 0.74 | -0.07 (-0.77; 0.63) | 0.85 | 1.23 (0.78; 1.93) | 0.37 | 0.51 (-0.36; 1.38) | 0.25 | 0.40 (-0.25; 1.04) | 0.23 | 0.86 (0.58; 1.27) | 0.45 |
| PFDA | -0.35 (-1.12; 0.42) | 0.37 | -0.26 (-0.85; 0.33) | 0.39 | 0.89 (0.59; 1.35) | 0.58 | 0.47 (-0.29; 1.24) | 0.23 | 0.39 (-1.79; -0.51) | 0.18 | 0.95 (0.66; 1.36) | 0.78 |

\*Adjusted for maternal age, pre-pregnancy BMI, parity and smoking.

**Supplementary Table 3.** Adjusted\* β coefficientsfrom linear mixed models between 1st trimester PFAS and gestational systolic and diastolic blood pressures (SBP and DBP) and hazard ratios (HR) for preeclampsia (PE) and 95% confidence intervals (95% CI) according to BMI among 1436 women. Associations are shown per doubling in PFAS concentrations.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Doubling of PFAS (ng/ml)** | **Normal weight (BMI<25 kg/m2)**  **N=944** | | | | | | **Overweight (BMI≥25 kg/m2)**  **N=492** | | | | | |
| **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios (95% CI)** | | **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios (95% CI)** | |
|  | **SBP (mmHg)** | **p-value** | **DBP (mmHg)** | **p-value** | **PE** | **p-value** | **SBP (mmHg)** | **p-value** | **DBP (mmHg)** | **p-value** | **PE** | **p-value** |
| PFHxS | -0.54 (-1.11;0.02) | 0.06 | -0.29 (-0.73; 0.14) | 0.19 | 1.16 (0.84; 1.59) | 0.36 | -0.39 (-1.21; 0.43) | 0.36 | -0.24 (-0.84; 0.36) | 0.43 | 1.13 (0.83; 1.53) | 0.45 |
| PFOS | 0.20 (-0.53; 0.92) | 0.60 | 0.40 (-0.16; 0.96) | 0.16 | 0.98 (0.67; 1.45) | 0.93 | 1.05 (-0.03; 2.14) | 0.06 | 0.96 (0.18; 1.75) | 0.02 | 1.13 (0.75; 1.69) | 0.56 |
| PFOA | 0.86 (0.19; 1.53) | 0.01 | 0.69 (0.18; 1.21) | <0.01 | 1.30 (0.91; 1.86) | 0.15 | -0.60 (-1.58; 0.38) | 0.23 | -0.24 (-0.95; 0.47) | 0.51 | 0.72 (0.50; 1.03) | 0.07 |
| PFNA | 0.43 (-0.33; 1.19) | 0.26 | 0.28 (-0.30; 0.88) | 0.34 | 1.25 (0.83; 1.87) | 0.29 | -0.15 (-1.27; 0.96) | 0.79 | 0.06 (-0.74; 0.87) | 0.88 | 0.81 (0.52; 1.26) | 0.36 |
| PFDA | 0.17 (-0.47; 0.81) | 0.60 | 0.22 (-0.27; 0.72) | 0.38 | 1.10 (0.78; 1.55) | 0.58 | -0.19 (-1.21; 0.82) | 0.71 | -0.17 (-0.91; 0.56) | 0.64 | 0.75 (0.49; 1.15) | 0.19 |

\*Adjusted for maternal age, pre-pregnancy BMI, parity and smoking.

**Supplementary Table 4.** Adjusted\* β coefficientsfrom linear mixed models between 1st trimester PFAS and gestational systolic and diastolic blood pressures (SBP and DBP) and hazard ratios (HR) for preeclampsia (PE) and 95% confidence intervals (95% CI) according to parity among 1436 women. Associations are shown per doubling in PFAS concentrations.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Doubling of PFAS (ng/ml)** | **Nulliparous women**  **n=** | | | | | | **Multiparous women**  **n=** | | | | | |
| **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios (95% CI)** | | **Adjusted\* β coefficients (95% CI)** | | | | **Hazard Ratios (95% CI)** | |
|  | **SBP (mmHg)** | **P-value** | **DBP (mmHg)** | **P-value** | **PE** | **P-value** | **SBP (mmHg)** | **P-value** | **DBP (mmHg)** | **P- value** | **PE** | **P-value** |
| PFHxS | -0.51 (-1.15; 0.12) | 0.11 | -0.25 (-0.73; 0.23) | 0.31 | 1.05 (0.81; 1.36) | 0.73 | -0.63 (-1.30; 0.04) | 0.06 | -0.45 (-0.96; 0.06) | 0.08 | 1.38 (0.89; 2.13) | 0.15 |
| PFOS | 0.91 (0.11; 1.70) | 0.02 | 0.91 (0.31; 1.50) | 0.003 | 1.13 (0.81; 1.58) | 0.47 | -0.25 (-1.18; 0.68) | 0.60 | 0.04 (-0.66; 0.74) | 0.91 | 0.83 (0.46; 1.49) | 0.53 |
| PFOA | 0.06 (-0.70; 0.82) | 0.88 | 0.11 (-0.46; 0.69) | 0.71 | 0.90 (0.67; 1.21) | 0.49 | 0.10 (-0.72; 0.93) | 0.81 | 0.27 (-0.36; 0.89) | 0.40 | 1.07 (0.64; 1.79) | 0.79 |
| PFNA | 0.44 (-0.37; 1.24) | 0.29 | 0.31 (-0.30; 0.91) | 0.32 | 0.95 (0.68; 1.32) | 0.76 | -0.63 (-1.63; 0.38) | 0.22 | -0.32 (-1.08; 0.44) | 0.42 | 1.14 (0.61; 2.15) | 0.68 |
| PFDA | 0.08 (-0.64; 0.80) | 0.83 | 0.04 (-0.50; 0.59) | 0.87 | 0.92 (0.68; 1.25) | 0.59 | -0.04 (-0.86; 0.78) | 0.92 | 0.09 (-0.53; 0.71) | 0.77 | 0.92 (0.53; 1.60) | 0.77 |

\*Adjusted for maternal age, pre-pregnancy BMI, parity and smoking.