

## Supplementary Materials

**Table S1.** Full characteristics of mothers in the control and PIH group.

Maternal Characteristics	Normotensives ( <i>n</i> = 775) *	PIH cases ( <i>n</i> = 137) *	<i>p</i> **
	Mean (SD); Median or <i>n</i> (%)	Mean (SD); Median or <i>n</i> (%)	
<b>Basic</b>			
Maternal age (years)	33.5 (4.8); 35.0	34.8 (4.4); 35.0	0.005
Maternal age (range)	(18–45)	(19–45)	
Primiparous	318 (41.0%)	65 (47.5%)	0.161
Prior PIH	4 (0.5%)	15 (11.0%)	<0.00001
Infertility treatment	29 (3.7%)	11 (8.0%)	0.024
GWG/week (kg/week) ***	0.35 (0.14); 0.34	0.39 (0.21); 0.38	0.024
Education <12 years	48 (7.1%)	22 (18.3%)	0.0001
Pre-pregnancy BMI (kg/m <sup>2</sup> )	23.3 (4.1); 22.5	26.7 (5.4); 25.3	<0.001
Pre-pregnancy BMI (range)	(14.6–39.4)	(16.3–42.9)	
Pre-pregnancy underweight	44 (5.7%)	3 (2.2%)	0.089
<b>Smoking characteristics</b>			
Smokers	<i>n</i> = 133	<i>n</i> = 35	
How long (years) (available = 900)	1.30 (3.69); 0.0	2.39 (5.26); 0.0	0.011
No of cigarettes/day (available = 899)	1.68 (8.24); 0.0	2.94 (6.24); 0.0	0.005
Pack-years (available = 899)	0.75 (3.49); 0.0	1.61 (4.58); 0.0	0.008
Smokers in the first trimester	<i>n</i> = 37	<i>n</i> = 20	
How long (years) (available = 53)	11.1 (6.7); 10	12.6 (7.0); 13.5	0.497
Range	2–25	2–22	
Cigarettes/day (available = 54)	10 (5.7); 10	13.4 (7.1); 10	0.089
Range	2–20	3–30	
Pack-years (available = 53)	6.4 (6.5); 3.8	9.2 (8.3); 5.6	0.156
Range	0.3–23.0	1.0–31.5	
Quit smoking during pregnancy	9 (24.3%)	13 (65.0%)	0.003
Reduced smoking during pregnancy	6 (16.2%)	4 (20.0%)	0.720
Smoked unchanged until the end of pregnancy	22 (59.5%)	3 (15.0%)	0.001
<b>Pregnancy results</b>			
Fetal sex- son	405 (52.3%)	68 (49.6%)	0.571
Gestational age at delivery (week)	38.9 (1.6); 39.0	37.7 (2.8); 38.0	<0.0001
Newborn birthweight (g)	3416.5 (511.7); 3449.0	3020.0 (838.0); 3130.0	<0.0001
Preeclampsia	–	24	–
Gestational hypertension	–	113	–
SABP after delivery (mmHg)	107.9 (10.8); 110.0	159.5 (18.2); 160.0	<0.001
DABP after delivery (mmHg)	66.8 (8.8); 70.0	100.9 (11.0); 100.0	<0.001
Gestational diabetes mellitus (GDM)	121 (15.6%)	25 (18.3%)	0.438

\* Normotensive controls and cases of pregnancy-induced hypertension (PIH);

\*\* The Mann-Whitney *U* test was used for comparisons of continuous variables; For binomial categories the Pearson chi-square test (or Fisher exact test when Cochran assumption was not met) was used (*p* <0.05 was assumed to be significant);

\*\*\* GWG: gestational weight gain; SABP—systolic arterial blood pressure; DABP—diastolic arterial blood pressure.

**Table S2.** The adjusted odds ratios of gestational hypertension (GH) and preeclampsia (PE) for all smoking categories.

	Odds Ratios of Two Forms of GH and PE for All Smoking Categories		
	Cases/ controls	OR (95% CI); <i>p</i>	AOR * (95% CI); <i>p</i>
<b>Gestational hypertension (GH) risk</b>			
Smokers	31/133	1.83 (1.16–2.87); 0.009	1.68 (1.02–2.78); 0.043
Smokers in the first trimester	17/37	3.60 (1.94–6.68); <0.001	4.75 (2.34–9.65); <0.001
Ex-smokers	14/96	1.14 (0.62–2.09); 0.668	0.83 (0.41–1.66); 0.596
Women who have never smoked **	82/642	1	1
Women who quit smoking in pregnancy	12/9	10.44 (4.27–25.53); <0.0001	11.63 (4.07–33.24); <0.0001
Women who reduced smoking in pregnancy	3/6	3.91 (0.96–15.95); 0.057	3.81 (0.81–18.05); 0.092
Women who smoked unchanged until the end of pregnancy	2/22	0.71 (0.16–3.08); 0.649	1.00 (0.21–4.64); 0.999
Women who have never smoked ***	82/642	1	1
Ex-smokers	14/96	0.32 (0.14–0.71); 0.005	0.14 (0.05–0.41); <0.001
Smokers in the first trimester **	17/37	1	1
Women who quit smoking in pregnancy	12/9	7.47 (2.07–27.0); 0.002	13.54 (2.26–81.1); 0.004
Women who reduced smoking in pregnancy	3/6	1.11 (0.24–5.08); 0.896	1.01 (0.17–5.90); 0.994
Women who smoked unchanged until the end of pregnancy	2/22	0.09 (0.02–0.46); 0.004	0.06 (0.01–0.42); 0.005
Smokers in the first trimester *** #	17/37	1	1
<b>Preeclampsia (PE) risk</b>			
Smokers	4/133	0.97 (0.33–2.87); 0.950	0.91 (0.29–2.88); 0.872
Smokers in the first trimester	3/37	2.60 (0.74–9.16); 0.136	2.51 (0.60–10.54); 0.208
Ex-smokers	1/96	0.33 (0.04–2.52); 0.288	0.31 (0.04–2.40); 0.260
Women who have never smoked **	20/642	1	1
Women who quit smoking in pregnancy	1/9	3.57 (0.43–29.52); 0.238	2.25 (0.2–24.66); 0.508
Women who reduced smoking in pregnancy	1/6	5.35 (0.62–46.54); 0.129	2.47 (0.21–29.33); 0.474
Women who smoked unchanged until the end of pregnancy	1/22	1.46 (0.19–11.37); 0.718	2.49 (0.27–22.51); 0.418
Women who have never smoked ***	20/642	1	1
Ex-smokers	1/96	0.13 (0.01–1.28); 0.08	0.21 (0.01–5.12); 0.335
Smokers in the first trimester **	3/37	1	1
Women who quit smoking in pregnancy	1/9	1.56 (0.13–19.24); 0.731	1.00 (0.01–80.05); 1.0
Women who reduced smoking in pregnancy	1/6	2.58 (0.20–33.24); 0.467	-
Women who smoked unchanged until the end of pregnancy	1/22	0.34 (0.03–4.11); 0.397	0.35 (0.01–20.21); 0.612
Smokers in the first trimester ***,#	3/37	1	1

\* AOR: adjusted odds ratios (CI—confidence intervals) calculated in the multivariate logistic regression ( $p < 0.05$  was assumed to be significant);

\*\* In the analyses, odds ratios were calculated after adjustment for maternal age, primiparous, pre-pregnancy BMI, gestational weight gain outside the range of the recommendations regardless of the BMI category, prior PIH and infertility treatment;

\*\*\* In the analyses, odds ratios were calculated after adjustment for maternal age, primiparous, pre-pregnancy BMI, gestational weight gain outside the range of the recommendations; # The reference category were variables other than those studied.

**Table S3.** The odds ratios of gestational hypertension (GH) and preeclampsia (PE) for smoking in the first trimester, after dissection into pre-pregnancy BMI categories.

<b>Odds Ratios of GH and PE for Smoking in the First Trimester, in the Pre-Pregnancy BMI Categories</b>				
	<b>Cases/ Controls</b>	<b>GH risk OR * (95% CI); <i>p</i></b>	<b>Cases/ Controls</b>	<b>PE risk OR * (95% CI); <i>p</i></b>
<b>Whole cohort</b>				
Smoking in the first trimester	17/37	3.60 (1.94–6.68); <0.001	3/37	2.60 (0.74–9.16); 0.136
Women who have never smoked	82/642	1	20/642	1
<b>Underweight</b>				
Smoking in the first trimester	1/3	-	1/3	11.0 (0.54–223.89); 0.119
Women who have never smoked	0/33	1	1/33	1
<b>Normal BMI</b>				
Smoking in the first trimester	6/23	2.98 (1.15–7.74); 0.025	1/23	2.84 (0.34–24.05); 0.339
Women who have never smoked	40/457	1	7/457	1
<b>Overweight</b>				
Smoking in the first trimester	6/7	4.67 (1.42–15.36); 0.011	0/7	-
Women who have never smoked	20/109	1	4/109	1
<b>Obesity</b>				
Smoking in the first trimester	4/4	1.96 (0.45–8.57); 0.374	1/4	1.34 (0.13–13.64); 0.803
Women who have never smoked	22/43	1	8/43	1

\* OR: crude odds ratios (CI—confidence intervals) calculated in the univariate logistic regression ( $p < 0.05$  was assumed to be significant); BMI: body mass index; GH: isolated gestational hypertension; PE: preeclampsia.