Supplementary Material

Nonylphenol exposure is associated with oxidative and nitrative stress in pregnant women

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Table S1

The Spearman's correlation coefficients between maternal urinary NP, biomarkers of oxidative/nitrosative stress and potential confounders

	NP	8-NO ₂ Gua	8-oxodG	HNE-MA	8-isoPF _{2α}	GPx	SOD
NP	1	0.28*	0.45*	0.04	0.05	-0.11	-0.10
8-NO ₂ Gua	0.28*	1	0.25*	0.10	0.16	-0.12	-0.15
8-oxodG	0.45*	0.25*	1	0.12	0.02	-0.06	-0.05
HNE-MA	0.04	0.10	0.12	1	0.20	-0.10	-0.02
8-isoPF _{2α}	0.05	0.16	0.02	0.20*	1	0.06	0.02
GPx	-0.11	-0.12	-0.06	-0.10	0.06	1	0.12
SOD	-0.10	-0.15	-0.05	-0.02	0.02	0.12	1
Age	0.02	-0.09	-0.14	-0.03	-0.12	0.02	0.11
BMI at delivery	-0.18*	0.04	-0.13	0.10	-0.01	-0.12	0.15
Take exercise	0.07	0.19*	0.03	0.12	0.01	-0.06	0.003
Vitamin supplements	0.02	0.01	0.29*	0.07	0.04	0.07	0.13
Vitamin C/E supplement	-0.04	0.13	0.02	-0.08	-0.03	0.15	-0.13
Occupation status	0.05	0.10	-0.09	0.16	0.12	-0.17	0.04
Parity	-0.12	-0.13	-0.05	-0.03	-0.15	0.02	-0.003
Gestational age	0.06	0.07	-0.17	0.03	0.05	0.10	-0.02
Labor	-0.06	-0.04	0.07	0.04	-0.03	-0.13	0.20

*p<0.05

Table S2Multivariable linear regression model of 8-oxodG, 8-NO₂Gua, HNE-MA, 8-isoPF_{2α} and antioxidants and maternal NP levels

Variables	8-oxodG		8-NO ₂ Gua		HNE-MA		8-isoPF _{2α}		GPx		SOD (U/mL)	
	(μg/g creatinine)		(μg/g creatinine)		(μg/g creatinine)		(μg/g creatinine)		(nmol/min/mL)			
	B (SE)	p	B(SE)	p	B(SE)	p	B(SE)	p	B(SE)	p	B(SE)	p
3 rd trimester NP	1.05 (0.24)	<0.0001*	10.05 (2.97)	0.001*	3.28 (6.88)	0.63	0.26(0.44)	0.56	-2.76 (4.28)	0.88	-0.08 (0.19)	0.67
Age	0.21 (0.20)	0.29	-1.07 (2.43)	0.66	-1.78(5.62)	0.75	-0.42(0.36)	0.25	0.48 (3.09)	0.88	0.004(0.13)	0.99
Delivery BMI	-0.14 (0.20)	0.35	-0.34 (2.61)	0.90	4.40 (6.04)	0.47	-0.21(0.39)	0.58	-1.68 (3.34)	0.62	0.22 (0.14)	0.13
Regular exercise	2.26 (1.68)	0.16	-23.66(20.53)	0.25	-16.62(47.57)	0.73	0.88(3.04)	0.77	9.43 (25.61)	0.71	-0.11 (1.11)	0.92
Vitamin supplements	-3.37 (1.58)	0.04*	-22.47(19.80)	0.25	-39.43(44.75)	0.38	-0.49(2.86)	0.87	-10.59 (23.87)	0.66	-1.04 (1.03)	0.32

***P<0.05**

Regular exercise: regular exercise as a reference group; Vitamin supplements: the take of vitamin supplements as a reference group.

Fig. S1 LC-MS/MS analysis of 8-oxodG, 8-NO₂Gua, HNE-MA and 8-isoPF_{2α} in a urine sample collected from a pregnant women.