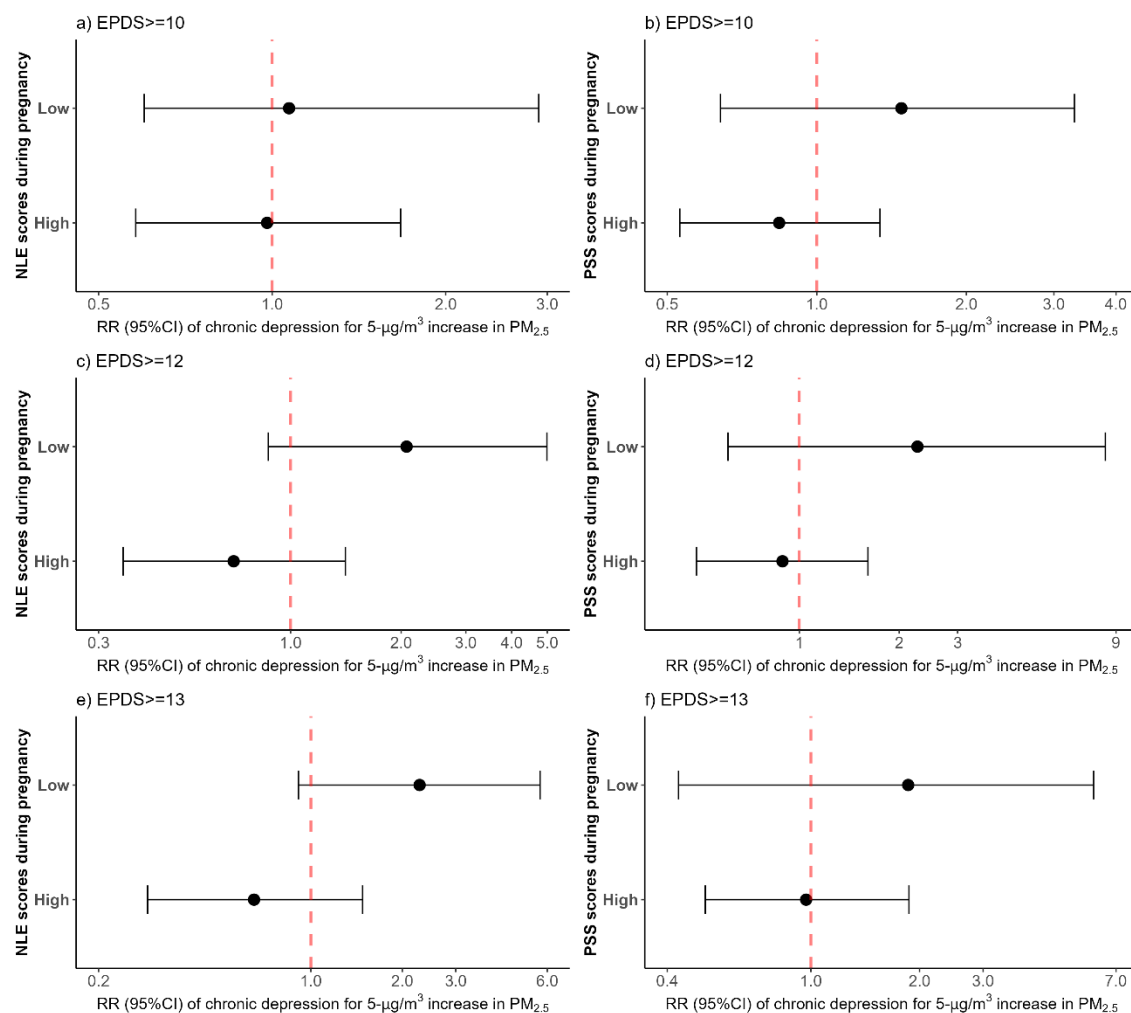


Air pollution and postpartum depression: the interplay with prenatal stress.

Gary Joseph, Megan Niedzwiecki, Itai Kloog, Allan C. Just, Ivan Gutierrez-Avila, Elena Colicino, Martha María Téllez-Rojo, Robert O. Wright, Carmen Hernandez-Chavez, Gabriela Gil Martínez, Rosalind J. Wright, Veerle Bergink, Lauren M. Petrick

Supplementary materials

Supplementary Figure 1: Association between chronic postpartum depression and average particulate air pollution (PM_{2.5}) exposure during pregnancy according to negative life events and perceived stress scores stratum.



Footnotes: Analyses were adjusted for maternal age, maternal education, socioeconomic status, body mass index, maternal exposure to smoke inside the home, and gestational age at birth. NLE: Negative life events, PSS: Perceived stress scale score. EPDS: Edinburgh Postnatal Depression Scale, PPD: Postpartum depression.; Association between chronic PPD at 6 months postpartum and average particulate air pollution (PM_{2.5}) according to NLE stratum for a) EPDS≥10, c) EPDS≥12, and e) EPDS≥13. Association between chronic PPD at 6 months postpartum and average particulate air pollution (PM_{2.5}) according to PSS stratum for b) EPDS≥10, d) EPDS≥12, and f) EPDS≥13.

Supplementary Table1: Interaction between average PM_{2.5} exposure and negative life events and perceived stress score during pregnancy on postpartum depression at 6 months.

Postpartum depression		Average PM _{2.5} X Negative life events (High vs. Low)		Average PM _{2.5} X Perceive stress scale (High vs. Low)	
		RR (95%CI) of the interaction term	P-value (interaction)	RR (95%CI) of the interaction term	P-value (interaction)
Prevalent PPD at 6 months	EPDS≥10	1.22 (0.74-2.01)	0.438	0.64 (0.39-1.06)	0.083
	EPDS≥12	1.12 (0.56-2.25)	0.74	0.40 (0.19-0.80)	0.009
	EPDS≥13	1.23 (0.59-2.60)	0.578	0.54 (0.25-1.17)	0.117
Chronic PPD at 6 months	EPDS≥10	1.05 (0.56-1.96)	0.88	0.74 (0.34-1.61)	0.444
	EPDS≥12	0.43 (0.16-1.13)	0.088	0.58 (0.16-2.06)	0.399
	EPDS≥13	0.36 (0.12-1.10)	0.073	0.79 (0.19-3.23)	0.748
new-onset PPD at 6 months	EPDS≥10	1.76 (0.68-4.58)	0.246	1.93 (0.58-6.44)	0.283
	EPDS≥12	4.85 (1.63-14.42)	0.005	0.42 (0.12-1.43)	0.164
	EPDS≥13	3.29 (0.98-10.98)	0.053	0.26 (0.07-0.91)	0.035

EPDS: Edinburgh Postnatal Depression Scale.