

Additional file 1. Characteristics of Massachusetts mothers (1) overall, (2) < 20 years old with gestational diabetes mellitus (GDM) and (3) < 20 years old without GDM

Characteristic	Total cohort (n=159,373)	Young women with GDM (n=178)	Young women without GDM (n=14,820)
	Percent		
Race/ethnicity^a			
White	70	44	46
Black	7	10	12
Asian/Pacific Islander	8	5	4
Hispanic	12	37	35
Other	2	5	3
Education^b			
Less than high school	11	57	58
High school	24	33	37
Some college	20	10	5
Bachelor degree	28	0	0
Postgraduate degree	17	0	0
Public prenatal insurance^c	31	76	74
Smoking habits^d			
Never	85	82	75
Former	9	8	12
Current low (<10 cigs)	5	4	10
Current high (>10 cigs)	2	6	3
	Mean (SD)		
Maternal age (years)	28.4 (6.3)	18.1 (1.0)	18.0 (1.1)
Open space in census tract (%)	12 (11)	9 (9)	9 (10)
Median household income in census tract (\$)	51,214 (19,595)	37,517 (15,075)	38,044 (15,295)
Median value of owner occupied housing in census tract (\$)	197,812 (119,745)	130,318 (54,097)	138,232 (66,610)
1st trimester PM_{2.5} (µg/m³)	10.4 (1.7)	10.3 (1.7)	10.5 (1.7)
2nd trimester PM_{2.5} (µg/m³)	10.4 (1.7)	10.9 (1.7)	10.6 (1.8)
Traffic density^e	1,317 (2,026)	1,223 (1,202)	1,411 (1,810)

^a84 missing from total cohort; ^b141 missing from total cohort; ^c42 missing from total cohort;

^d154 missing from total cohort ^eVehicles/day x km of road within 100 m of residential address