

Appendix

Supplemental Table 1

Sensitivity analysis of pregnancies missing birthweight ($n = 718$)

Characteristic	With fibroids $n = 62$ (8.6%)*	Without fibroids $n = 656$ (91.4%)*
Maternal age, y		
<25	9 (14.5)	184 (28.1)
25–29	20 (32.3)	234 (35.7)
30–34	19 (30.7)	171 (26.1)
≥35	14 (22.6)	67 (10.2)
Race or ethnicity		
White non-Hispanic	32 (51.7)	434 (66.3)
Black non-Hispanic	27 (43.6)	156 (23.8)
Hispanic	1 (1.6)	35 (5.3)
Other non-Hispanic	2 (3.2)	30 (4.6)
Missing	0	1
Body mass index [†]		
Underweight	2 (3.2)	17 (2.6)
Normal weight	22 (35.5)	335 (51.5)
Overweight	20 (32.3)	164 (25.2)
Obese	18 (29.0)	135 (20.7)
Missing	0	5
Education level		
High school or less	10 (16.1)	151 (23.0)
Some college	19 (30.7)	123 (18.8)
College or more	33 (53)	382 (58.2)
Marital status		
Married	49 (79.0)	575 (87.7)
Other	13 (21.0)	81 (12.4)
Household income		
≤\$40,000	16 (27.6)	246 (41.8)
\$40,001–80,000	25 (43.1)	212 (36.1)
≥\$80,001	17 (29.3)	130 (22.1)
Missing	4	68
Parity		
0	25 (41.7)	308 (50.7)
1	20 (33.3)	188 (31.0)
≥2	15 (25.0)	111 (18.3)
Missing	2	49
Prior preterm birth		
None	54 (90.0)	544 (89.6)
Any	6 (10.0)	63 (10.4)
Missing	2	49
Smoking		
Never	43 (69.4)	451 (73.6)
Current or recent quit	6 (9.7)	82 (13.4)
Distant quit [‡]	13 (21.0)	80 (13.1)
Missing	0	43
Alcohol		
Never	6 (9.7)	108 (17.6)
Current or recent quit	33 (53.2)	335 (54.7)
Distant quit [‡]	23 (37.1)	170 (27.7)
Missing	0	43
Diabetes		
None	60 (96.8)	591 (96.4)
Type I	0 (0.0)	4 (0.7)
Type II	1 (1.6)	0 (0.0)
Gestational diabetes	1 (1.6)	18 (3.0)
Missing	0	43
Caffeine consumption		
None	14 (22.6)	183 (29.9)
Any	48 (77.4)	430 (70.2)
Missing	0	43
Prenatal vitamins		
None	2 (3.2)	22 (3.6)
Any	60 (96.8)	589 (96.4)
Missing	0	45
Folic acid		
None	2 (3.2)	22 (3.6)
Any	60 (96.8)	588 (96.4)
Missing	0	46
Infant sex		

Supplemental Table 1 (continued)

Characteristic	With fibroids $n = 62$ (8.6%)*	Without fibroids $n = 656$ (91.4%)*
Male	2 (20.0)	60 (52.2)
Female	8 (80.0)	55 (47.8)
Missing	52	541
Study site		
North Carolina	21 (33.9)	223 (34.0)
Tennessee	41 (66.1)	415 (63.3)
Texas	0 (0.0)	18 (2.7)

* Data are counts and column percentages for each characteristic. Percentages exclude missing data and may not add up to 100% due to rounding.

[†] Body mass index was calculated as weight (kg)/height (m)² and was categorized as underweight: <18.5; normal weight: 18.5–24.9; overweight: 25.0–29.9; or obese: ≥30.

[‡] Distant quit defined as cessation before four months before first trimester interview.

Supplemental Table 2
Fibroid and birth outcomes adjusting for age, BMI, race/ethnicity

Fibroid characteristic	Birthweight (grams)		Gestational age (d)	
	White non-Hispanic coefficient (95% CI) [*]	Black non-Hispanic coefficient (95% CI) [†]	White non-Hispanic coefficient (95% CI) [*]	Black non-Hispanic coefficient (95% CI) [†]
Fibroids present				
No	0 (Reference)	0 (Reference)	0.0 (Reference)	0.0 (Reference)
Yes	-16 (-85, 54)	-2 (-130, 126)	0.4 (-1.2, 1.9)	1.8 (-1.8, 5.5)
Fibroid number [‡]				
1	15 (-63, 93)	34 (-119, 188)	0.7 (-1.0, 2.5)	3.0 (-1.4, 7.4)
2	-40 (-212, 133)	103 (-159, 364)	-0.3 (-4.2, 3.6)	3.0 (-4.5, 10.6)
≥3	-254 (-481, -27)	-191 (-426, 44)	-1.8 (-6.9, 3.3)	-2.4 (-9.2, 4.4)
Fibroid type [§]				
Any subserosal	22.3 (-81, 126)	-85 (-265, 96)	1.2 (-1.1, 3.5)	-0.5 (-5.7, 4.7)
Any intramural	-114 (-216, -12)	49 (-127, 224)	-0.4 (-2.7, 1.9)	3.0 (-2.0, 8.1)
Any submucosal	64 (-103, 230)	-25 (-231, 182)	-1.2 (-5.0, 2.5)	3.4 (-2.5, 9.3)
Total volume				
Lowest quartile	-1 (-122, 121)	245 (-46, 536)	0.1 (-2.7, 2.8)	8.5 (0.2, 16.9)
2nd quartile	-40 (-172, 92)	-135 (-370, 99)	2.7 (-0.2, 5.7)	-1.5 (-8.2, 5.3)
3rd quartile	37 (-93, 167)	-24 (-244, 195)	-0.1 (-3.0, 2.9)	0.5 (-5.8, 6.8)
Top quartile	-86 (-244, 72)	-2 (-192, 188)	-2.0 (-5.5, 1.6)	2.2 (-3.2, 7.7)

BMI = body mass index; CI = confidence interval.

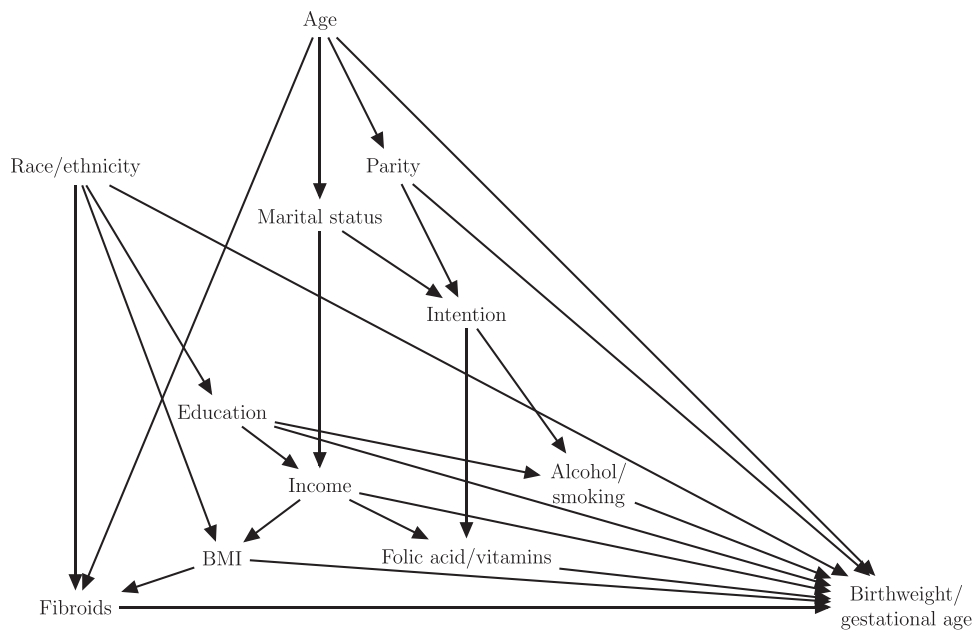
^{*} Among 2853 white non-Hispanics, 32 missing confounder data were excluded.

[†] Among 628 white non-Hispanics, 18 missing confounder data were excluded.

[‡] Only available for women with fibroids.

[§] Type is mutually exclusive for each fibroid, but a woman with multiple fibroids can have more than one type of fibroid.

^{||} Quartiles for total fibroid volume (cm³): <0.92, 0.92–4.54, 4.55–19.47, >19.47.



Supplemental Figure 1. Directed acyclic graph representing the relationship among covariates with fibroids and birth outcomes.