

**Table S9.** Associations between early-life exposures and timing of menarche in the Sister Study cohort (N=49,130)<sup>a</sup>

	Early menarche ( $\leq 11$ years) <sup>b,c</sup>		Late menarche ( $\geq 14$ years) <sup>b,c</sup>	
	OR	95% CI	OR	95% CI
<i>Maternal pregnancy characteristics</i>				
<b>Diabetes</b>				
Any	1.35	1.08, 1.69	1.14	0.91, 1.43
<i>Gestational diabetes</i>	1.09	0.77, 1.53	0.93	0.66, 1.29
<i>Pre-pregnancy diabetes</i>	1.66	1.21, 2.28	1.42	1.03, 1.96
None	1	Ref	1	Ref
<b>Gestational hypertensive disorder</b>				
Any	1.27	1.13, 1.44	0.96	0.85, 1.09
<i>Pre-eclampsia</i>	1.18	1.00, 1.39	0.98	0.83, 1.16
<i>Gestational hypertension</i>	1.31	1.08, 1.58	0.89	0.73, 1.09
None	1	Ref	1	Ref
<b>DES use</b>				
Yes	1.21	1.05, 1.41	0.98	0.85, 1.14
No	1	Ref	1	Ref
<b>Smoking during pregnancy</b>				
Yes	1.14	1.08, 1.19	1.01	0.97, 1.06
No	1	Ref	1	Ref
<b>Farm exposure</b>				
Work and residence	1.01	0.94, 1.09	1	0.93, 1.08
Work only	0.89	0.72, 1.10	1.13	0.94, 1.36
Residence only	0.99	0.88, 1.11	1.06	0.95, 1.18
None	1	Ref	1	Ref
<b>Age at delivery</b>				
<20 years	1.24	1.11, 1.38	0.90	0.81, 1.01
20-24 years	1.05	0.98, 1.12	1.02	0.96, 1.09
25-29 years	1	Ref	1	Ref
30-34 years	1.03	0.96, 1.10	0.98	0.93, 1.04
35-39 years	1.02	0.94, 1.10	0.89	0.83, 0.96
$\geq 40$ years	1.05	0.94, 1.17	0.95	0.85, 1.06
<i>Birth and infancy characteristics</i>				
<b>Firstborn</b>				
Yes	1.14	1.08, 1.20	0.90	0.85, 0.95
No	1	Ref	1	Ref
<b>Birthweight</b>				
<2500g	1.15	1.05, 1.25	1.05	0.96, 1.14
2500g-3999g	1	Ref	1	Ref

≥4000g	1.08	0.99, 1.19	1.11	1.01, 1.21
Multiple birth				
Yes	0.92	0.80, 1.05	1.00	0.89, 1.14
No	1	Ref	1	Ref
Gestational age at birth				
Born ≥1 month before due date	1.08	0.92, 1.27	1.07	0.92, 1.26
Born 2-4 weeks before due date	1.00	0.89, 1.13	0.86	0.77, 0.97
Not born ≥2 weeks before due date	1	Ref	1	Ref
Ever breastfed				
Yes	0.97	0.92, 1.02	1.00	0.95, 1.05
No	1	Ref	1	Ref
Ever fed soy formula				
Yes	1.05	0.90, 1.23	1.19	1.04, 1.37
No	1	Ref	1	Ref

<sup>a</sup>32 women missing age at menarche were excluded from this analysis. N=10,055 women with early menarche, 27,613 women with average menarche and 11,462 women with late menarche.

<sup>b</sup>Adjusted for birth cohort, race/ethnicity and childhood family income

<sup>c</sup>Referent group is menarche at 12-13 years