

**Table S10.** Associations between early-life exposures and early thelarche ( $\leq 10$  years) and/or early menarche ( $\leq 11$  years) in the Sister Study cohort (N=49,130)<sup>a</sup>

	Early menarche without early thelarche (n=5821) <sup>b,c</sup>		Early thelarche without early menarche (n=2370) <sup>b,c</sup>		Early thelarche and early menarche (n=4234) <sup>b,c</sup>	
	OR	95% CI	OR	95% CI	OR	95% CI
<i>Maternal pregnancy characteristics</i>						
<b>Diabetes</b>						
Any	1.21	0.92, 1.60	1.00	0.65, 1.53	1.41	1.05, 1.89
<i>Gestational diabetes</i>	1.17	0.78, 1.75	0.61	0.28, 1.30	0.98	0.60, 1.59
<i>Pre-pregnancy diabetes</i>	1.20	0.81, 1.80	1.55	0.92, 2.62	1.97	1.36, 2.86
None	1	Ref	1	Ref	1	Ref
<b>Gestational hypertensive disorder</b>						
Any	1.20	1.04, 1.39	1.08	0.87, 1.35	1.42	1.22, 1.66
<i>Pre-eclampsia</i>	1.03	0.83, 1.28	1.15	0.86, 1.55	1.42	1.15, 1.76
<i>Gestational hypertension</i>	1.29	1.02, 1.63	0.91	0.62, 1.34	1.41	1.09, 1.81
None	1	Ref	1	Ref	1	Ref
<b>DES use</b>						
Yes	1.08	0.89, 1.30	0.94	0.71, 1.26	1.40	1.16, 1.69
No	1	Ref	1	Ref	1	Ref
<b>Smoking during pregnancy</b>						
Yes	1.09	1.03, 1.16	1.19	1.09, 1.30	1.22	1.14, 1.30
No	1	Ref	1	Ref	1	Ref
<b>Farm exposure</b>						
Work and residence	1.02	0.93, 1.11	1.03	0.90, 1.19	1.00	0.91, 1.11
Work only	0.86	0.66, 1.11	1.18	0.84, 1.65	0.87	0.65, 1.17
Residence only	0.95	0.83, 1.10	1.02	0.82, 1.26	1.00	0.85, 1.17
None	1	Ref	1	Ref	1	Ref
<b>Age at delivery</b>						
<20 years	1.26	1.11, 1.44	1.39	1.15, 1.68	1.36	1.18, 1.58
20-24 years	1.05	0.97, 1.13	1.18	1.06, 1.33	1.06	0.97, 1.16
25-29 years	1	Ref	1	Ref	1	Ref
30-34 years	1.04	0.96, 1.12	0.88	0.78, 0.99	1.01	0.92, 1.10
35-39 years	1.10	1.00, 1.21	1.05	0.91, 1.21	0.99	0.89, 1.11
$\geq 40$ years	1.15	1.01, 1.31	1.00	0.82, 1.22	0.95	0.81, 1.12
<i>Birth and infancy characteristics</i>						
<b>Firstborn</b>						
Yes	1.11	1.03, 1.18	1.29	1.16, 1.42	1.32	1.23, 1.42
No	1	Ref	1	Ref	1	Ref
<b>Birthweight</b>						
<2500g	1.18	1.06, 1.31	1.02	0.87, 1.20	1.07	0.95, 1.21
2500g-3999g	1	Ref	1	Ref	1	Ref
$\geq 4000$ g	1.08	0.97, 1.21	1.02	0.87, 1.21	1.01	0.89, 1.15
<b>Multiple birth</b>						
Yes	0.98	0.84, 1.15	0.92	0.72, 1.18	0.81	0.67, 0.99
No	1	Ref	1	Ref	1	Ref

Gestational age at birth						
Born ≥1 month before due date	1.08	0.89, 1.31	0.71	0.50, 1.01	0.99	0.79, 1.24
Born 2-4 weeks before due date	1.03	0.89, 1.19	1.09	0.88, 1.35	1.07	0.91, 1.27
Not born ≥2 weeks before due date	1	Ref	1	Ref	1	Ref
Ever breastfed						
Yes	0.95	0.89, 1.01	0.98	0.89, 1.07	1.00	0.93, 1.07
No	1	Ref	1	Ref	1	Ref
Ever fed soy formula						
Yes	0.94	0.78, 1.14	1.06	0.82, 1.37	1.08	0.88, 1.32
No	1	Ref	1	Ref	1	Ref

<sup>a</sup>32 women missing age at menarche were excluded from this analysis

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

<sup>c</sup>Referent group is neither early thelarche nor early menarche (thelarche at age 11 or later and menarche at age 12 or later, n=36,705)