

**Table S6.** Associations between early-life exposures and timing of thelarche in the Sister Study cohort by Bayesian family history score (BFHS) (N=49,151)

	BFHS<median <sup>a</sup> (n=24,233)				BFHS≥median <sup>a</sup> (n=24,918)				P-het for median BFHS <sup>d</sup>	P-het for continuous BFHS <sup>e</sup>		
	Early (≤10 years) <sup>b,c</sup>		Late (≥14 years) <sup>b,c</sup>		Early (≤10 years) <sup>b,c</sup>		Late (≥14 years) <sup>b,c</sup>					
	OR	95% CI	OR	95% CI	OR	95% CI	OR	95% CI				
<i>Maternal pregnancy characteristics</i>												
Diabetes									0.18	0.21		
Any	1.49	1.06, 2.10	0.88	0.61, 1.28	0.95	0.65, 1.38	0.94	0.66, 1.33				
None	1	Ref	1	Ref	1	Ref	1	Ref				
Gestational hypertensive disorder									0.22	0.68		
Any	1.10	0.90, 1.35	0.95	0.78, 1.15	1.40	1.17, 1.68	0.98	0.81, 1.18				
None	1	Ref	1	Ref	1	Ref	1	Ref				
DES use									0.58	0.59		
Yes	1.31	1.01, 1.70	0.95	0.73, 1.23	1.17	0.94, 1.45	1.06	0.86, 1.30				
No	1	Ref	1	Ref	1	Ref	1	Ref				
Smoking during pregnancy									0.73	0.11		
Yes	1.22	1.12, 1.33	1.04	0.96, 1.13	1.18	1.09, 1.27	1.01	0.94, 1.08				
No	1	Ref	1	Ref	1	Ref	1	Ref				
Farm exposure									0.16	0.40		
Work and residence	1.02	0.91, 1.14	1.04	0.94, 1.15	0.99	0.87, 1.13	0.83	0.73, 0.94				
Work only	0.93	0.66, 1.32	1.20	0.91, 1.59	1.18	0.86, 1.61	1.22	0.91, 1.62				
Residence only	0.94	0.78, 1.14	0.86	0.72, 1.02	1.02	0.84, 1.24	0.87	0.72, 1.04				
None	1	Ref	1	Ref	1	Ref	1	Ref				
Age at delivery									0.17	0.84		
<20 years	1.37	1.14, 1.64	0.94	0.78, 1.12	1.24	1.05, 1.46	0.92	0.78, 1.08				
20-24 years	1.01	0.91, 1.13	1.01	0.91, 1.11	1.13	1.03, 1.25	0.94	0.86, 1.02				
25-29 years	1	Ref	1	Ref	1	Ref	1	Ref				
30-34 years	0.91	0.82, 1.01	0.98	0.89, 1.07	1.00	0.90, 1.11	0.94	0.85, 1.03				
35-39 years	0.99	0.88, 1.12	1.01	0.91, 1.13	0.98	0.86, 1.12	0.88	0.78, 0.99				
≥40 years	0.83	0.69, 0.99	1.01	0.87, 1.18	1.14	0.94, 1.39	1.03	0.86, 1.22				
<i>Birth and infancy characteristics</i>												
Firstborn									0.26	0.81		
Yes	1.23	1.12, 1.35	0.79	0.72, 0.86	1.24	1.14, 1.35	0.87	0.80, 0.95				

No	1	Ref	1	Ref	1	Ref	1	Ref	
Birthweight									
<2500g	1.07	0.93, 1.24	1.19	1.05, 1.36	1.05	0.91, 1.20	1.10	0.97, 1.25	0.79 0.36
2500g-3999g	1	Ref	1	Ref	1	Ref	1	Ref	
≥4000g	1.02	0.88, 1.19	1.05	0.91, 1.20	0.99	0.85, 1.15	0.94	0.82, 1.08	
Multiple birth									
Yes	0.79	0.62, 1.00	0.98	0.81, 1.18	0.96	0.77, 1.19	1.26	1.05, 1.51	0.12 0.11
No	1	Ref	1	Ref	1	Ref	1	Ref	
Gestational age at birth									
Born ≥1 month before due date	0.91	0.68, 1.21	1.38	1.10, 1.74	0.92	0.71, 1.19	0.98	0.77, 1.24	0.10 0.03
Born 2-4 weeks before due date	1.09	0.88, 1.34	0.81	0.66, 1.01	1.04	0.87, 1.24	1.01	0.86, 1.19	
Not born ≥2 weeks before due date	1	Ref	1	Ref	1	Ref	1	Ref	
Ever breastfed									
Yes	0.99	0.91, 1.08	0.93	0.86, 1.00	0.98	0.91, 1.06	0.96	0.89, 1.03	0.78 0.97
No	1	Ref	1	Ref	1	Ref	1	Ref	
Ever fed soy formula									
Yes	1.03	0.78, 1.35	1.00	0.78, 1.30	1.13	0.92, 1.39	1.11	0.91, 1.34	0.76 0.60
No	1	Ref	1	Ref	1	Ref	1	Ref	

<sup>a</sup>Median BFHS in analytic sample is 0.306425. Median BFHS is weighted to control for length-biased sampling in calculation of BFHS. N=11 women are excluded due to missing weight.

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

<sup>c</sup>Referent group is thelarche at age 11-13 years

<sup>d</sup>P for heterogeneity calculated from a likelihood ratio test of nested models

<sup>e</sup>Model to generate p-het for continuous BFHS was weighted to control for length-biased sampling in calculation of BFHS. N=11 women are excluded due to missing weight. P-value for heterogeneity calculated from a joint Wald test of exposure\*BFHS interaction terms.