

**Appendix 1. Baseline Characteristics for Women With and Without Necessary Early or Mid-Pregnancy Sleep Questionnaire Data and Pregnancy Outcome Data Available**

Baseline Characteristics	Sleep & Pregnancy Outcome Data Available (N = 8,706)	Sleep or Pregnancy Outcome Data Unavailable (N = 1,222)	p-value <sup>a</sup>
Maternal age, in years			
Mean (standard deviation)	27.1 (5.6)	25.9 (5.9)	< 0.01
Category: n (%)			< 0.01
13-21	1,752 (20.1)	361 (29.8)	
22-35	6,372 (73.2)	775 (63.9)	
>35	581 (6.7)	77 (6.3)	
Maternal race: n (%)			< 0.01
White Non-Hispanic	5,380 (61.8)	550 (45.3)	
Black Non-Hispanic	1,160 (13.3)	232 (19.1)	
Hispanic	1,388 (15.9)	297 (24.5)	
Asian	352 (4.0)	51 (4.2)	
Other	425 (4.9)	83 (6.8)	
BMI, in kg/m <sup>2</sup>			
Mean (standard deviation)	26.3 (6.3)	26.4 (6.7)	0.67
Category: n (%)			0.88
<25	4,546 (53.1)	606 (53.3)	
25 to <30	2,133 (24.9)	276 (24.3)	
≥30	1,889 (22.0)	256 (22.5)	
Smoked during 3 months prior to pregnancy: n (%)			0.24
Yes	1,532 (17.6)	229 (19.0)	
No	7,170 (82.4)	977 (81.0)	
Gravidity: n (%)			0.52
1	6,482 (74.5)	893 (73.6)	

Silver RM, Hunter S, Reddy UM, Facco F, Gibbins KJ, Grobman WA, et al. Maternal sleep position through 30 weeks of gestation and adverse pregnancy outcomes. Obstet Gynecol 2019;134.

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2	1,660 (19.1)	231 (19.0)	< 0.01
≥ 3	563 (6.5)	89 (7.3)	
Chronic hypertension: n (%)			
Yes	205 (2.4)	37 (4.8)	0.63
No	8,481 (97.6)	739 (95.2)	
Pre-gestational diabetes: n (%)			
Yes	137 (1.6)	14 (1.8)	0.04
No	8,557 (98.4)	762 (98.2)	
Asthma: n (%)			
Yes	1,106 (12.7)	99 (10.4)	0.75
No	7,575 (87.3)	855 (89.6)	
Kidney disease: n (%)			
Yes	56 (0.6)	7 (0.7)	
No	8,625 (99.4)	947 (99.3)	

Abbreviations: BMI = body mass index

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**Appendix 2. Crude and Adjusted<sup>1/</sup> Odds Ratios for Composite of Stillbirth, Small for Gestational Age, and Hypertensive Disorder of Pregnancy<sup>2/</sup> According to Objectively Recorded Sleep Position (Percentage of Time in Supine Position)**

Objectively Recorded Sleep Position (Percentage of Time in Supine Position)	APO Composite n/N (%)	Crude Odds Ratios		Adjusted Odds Ratios	
		Estimate (95% CI)	p-value	Estimate (95% CI)	p-value
Early Pregnancy (Visit 1)					
≤ 25% of sleep time (referent)	188/829 (22.7)	1.00	0.05	1.00	0.15
>25% - 50% of sleep time	270/1179 (22.9)	1.01 (0.82, 1.25)		1.08 (0.87, 1.34)	
>50% - 75% of sleep time	154/845 (18.2)	0.76 (0.60, 0.96)		0.85 (0.66, 1.08)	
> 75% of sleep time	66/285 (23.2)	1.03 (0.75, 1.41)		1.13 (0.81, 1.56)	
Mid-Pregnancy (Visit 3)					
≤ 25% of sleep time (referent)	221/1063 (20.8)	1.00	0.32	1.00	0.29
>25% - 50% of sleep time	193/915 (21.1)	1.02 (0.82, 1.27)		1.03 (0.83, 1.29)	
>50% - 75% of sleep time	97/389 (24.9)	1.27 (0.96, 1.66)		1.30 (0.99, 1.72)	
> 75% of sleep time	27/112 (24.1)	1.21 (0.77, 1.91)		1.12 (0.70, 1.80)	

<sup>1/</sup> Early and mid-pregnancy adjusted for age, BMI and chronic hypertension as determined in early pregnancy. Mid-pregnancy also adjusted for rate of weight gain from early pregnancy to mid-pregnancy.

<sup>2/</sup> Hypertensive disorder of pregnancy includes mild, severe, and superimposed preeclampsia and eclampsia, plus antepartum gestational hypertension.

<sup>a</sup> p-values are shown for chi-square tests for data availability status and the categorical baseline characteristics and from ANOVA F-tests for data availability status and continuous baseline characteristics.