

Visit 1 and Visit 3 Sleep Questionnaire Data  
 Sleep duration 5 categories; Long sleep duration  
 Crude and Adjusted Odds Ratios for Hypertensive Disorder of Pregnancy and Gestational Diabetes

Sleep Characteristic Categories	HTN Disorder of Pregnancy			Gestational Diabetes		
	n/N (%)	Crude OR Estimate (95% CI)	Adjusted OR <sup>1/</sup> Estimate (95% CI)	n/N (%)	Crude OR Estimate (95% CI)	Adjusted OR <sup>1/</sup> Estimate (95% CI)
<b>Visit 1</b>						
<6 hours	55/393 (14.0)	1.22 (0.89, 1.67)	1.04 (0.75, 1.43)	18/392 (4.6)	1.28 (0.76, 2.15)	1.23 (0.72, 2.09)
6 - <7 hours	140/892 (15.7)	1.40 (1.12, 1.74)	1.29 (1.03, 1.61)	49/891 (5.5)	1.55 (1.08, 2.21)	1.45 (1.00, 2.08)
7 - <8 hours	282/2397 (11.8)	1.00	1.00	87/2397 (3.6)	1.00	1.00
8 - <9 hours	294/2397 (12.3)	1.05 (0.88, 1.25)	1.04 (0.87, 1.24)	86/2393 (3.6)	0.99 (0.73, 1.34)	1.08 (0.79, 1.46)
≥9 hours	176/1444 (12.2)	1.04 (0.85, 1.27) <i>p-value = 0.0342</i>	1.00 (0.81, 1.24) <i>p-value = 0.2300</i>	55/1444 (3.8)	1.05 (0.75, 1.48) <i>p-value = 0.1106</i>	1.39 (0.97, 2.00) <i>p-value = 0.2040</i>
≥9 hours	176/1444 (12.2)	0.96 (0.80, 1.14)	0.95 (0.79, 1.14)	55/1444 (3.8)	0.96 (0.71, 1.30)	1.25 (0.91, 1.72)
<9 hours	771/6079 (12.7)	1.00 <i>p-value = 0.6105</i>	1.00 <i>p-value = 0.5559</i>	240/6073 (4.0)	1.00 <i>p-value = 0.8034</i>	1.00 <i>p-value = 0.1711</i>
<b>Visit 3</b>						
<6 hours	66/503 (13.1)	1.10 (0.83, 1.46)	0.91 (0.67, 1.22)	23/502 (4.6)	1.26 (0.79, 2.01)	1.06 (0.65, 1.72)
6 - <7 hours	144/1086 (13.3)	1.12 (0.90, 1.38)	1.09 (0.88, 1.35)	47/1084 (4.3)	1.19 (0.83, 1.70)	1.20 (0.84, 1.72)
7 - <8 hours	316/2621 (12.1)	1.00	1.00	96/2619 (3.7)	1.00	1.00
8 - <9 hours	249/2174 (11.5)	0.94 (0.79, 1.13)	0.92 (0.77, 1.11)	85/2173 (3.9)	1.07 (0.79, 1.44)	1.17 (0.86, 1.58)
≥9 hours	177/1283 (13.8)	1.17 (0.96, 1.42) <i>p-value = 0.2540</i>	1.10 (0.89, 1.37) <i>p-value = 0.3973</i>	53/1281 (4.1)	1.13 (0.81, 1.60) <i>p-value = 0.8051</i>	1.56 (1.08, 2.24) <i>p-value = 0.2004</i>
≥9 hours	177/1283 (13.8)	1.16 (0.97, 1.38)	1.13 (0.94, 1.37)	53/1281 (4.1)	1.05 (0.78, 1.43)	1.42 (1.03, 1.96)
<9 hours	775/6384 (12.1)	1.00 <i>p-value = 0.1009</i>	1.00 <i>p-value = 0.2024</i>	251/6378 (3.9)	1.00 <i>p-value = 0.7355</i>	1.00 <i>p-value = 0.0320</i>

Supplemental Data

Visit 1 and Visit 3 Sleep Questionnaire Data

Crude and Adjusted<sup>1/</sup> Odds Ratios for Hypertensive Disorder of Pregnancy and Gestational Diabetes ; Weekday and Weekend Data

Sleep Characteristic Categories	HTN Disorder of Pregnancy			Gestational Diabetes		
	n/N (%)	Crude OR Estimate (95% CI)	Adjusted OR Estimate (95% CI)	n/N (%)	Crude OR Estimate (95% CI)	Adjusted OR Estimate (95% CI)
<b>Visit 1</b>						
Sleep Duration (Calculated WEEKDAY)						
<7 hours	256/1807 (14.2)	1.20 (1.03, 1.40)	1.13 (0.96, 1.33)	89/1805 (4.9)	1.41 (1.09, 1.82)	1.23 (0.94, 1.60)
≥7 hours	656/5426 (12.1)	1.00	1.00	193/5422 (3.6)	1.00	1.00
		<i>p-value = 0.0213</i>	<i>p-value = 0.1311</i>		<i>p-value = 0.0095</i>	<i>p-value = 0.1271</i>
Sleep Duration (Calculated WKEND)						
<7 hours	96/700 (13.7)	1.11 (0.88, 1.39)	0.96 (0.76, 1.22)	36/699 (5.2)	1.41 (0.99, 2.02)	1.23 (0.85, 1.77)
≥7 hours	809/6455 (12.5)	1.00	1.00	239/6450 (3.7)	1.00	1.00
		<i>p-value = 0.3719</i>	<i>p-value = 0.7408</i>		<i>p-value = 0.0604</i>	<i>p-value = 0.2795</i>
Sleep Midpoint (WEEKDAY)						
>5 AM	107/663 (16.1)	1.38 (1.11, 1.72)	1.27 (1.00, 1.60)	30/663 (4.5)	1.19 (0.81, 1.75)	1.51 (1.01, 2.25)
≤5 AM	805/6570 (12.3)	1.00	1.00	252/6564 (3.8)	1.00	1.00
		<i>p-value = 0.0042</i>	<i>p-value = 0.0460</i>		<i>p-value = 0.3852</i>	<i>p-value = 0.0464</i>
Sleep Midpoint (WKEND)						
>5 AM	209/1566 (13.3)	1.08 (0.92, 1.28)	0.99 (0.83, 1.18)	77/1567 (4.9)	1.41 (1.07, 1.84)	1.71 (1.28, 2.28)
≤5 AM	696/5589 (12.5)	1.00	1.00	198/5582 (3.5)	1.00	1.00
		<i>p-value = 0.3475</i>	<i>p-value = 0.8869</i>		<i>p-value = 0.0133</i>	<i>p-value = 0.0003</i>
<b>Visit 3</b>						
Sleep Duration (Calculated WEEKDAY)						
<7 hours	259/2090 (12.4)	1.00 (0.85, 1.16)	0.94 (0.80, 1.10)	91/2086 (4.4)	1.17 (0.91, 1.51)	1.00 (0.77, 1.31)
≥7 hours	646/5193 (12.4)	1.00	1.00	195/5190 (3.8)	1.00	1.00
		<i>p-value = 0.9557</i>	<i>p-value = 0.4324</i>		<i>p-value = 0.2300</i>	<i>p-value = 0.9708</i>
Sleep Duration (Calculated WKEND)						
<7 hours	118/845 (14.0)	1.20 (0.98, 1.48)	1.08 (0.87, 1.34)	36/842 (4.3)	1.14 (0.80, 1.63)	1.00 (0.69, 1.44)
≥7 hours	762/6414 (11.9)	1.00	1.00	242/6409 (3.8)	1.00	1.00
		<i>p-value = 0.0813</i>	<i>p-value = 0.4937</i>		<i>p-value = 0.4781</i>	<i>p-value = 0.9978</i>
Sleep Midpoint (WEEKDAY)						
>5 AM	94/686 (13.7)	1.13 (0.90, 1.43)	1.05 (0.82, 1.33)	31/686 (4.5)	1.18 (0.80, 1.72)	1.36 (0.90, 2.05)
≤5 AM	811/6597 (12.3)	1.00	1.00	255/6590 (3.9)	1.00	1.00
		<i>p-value = 0.2872</i>	<i>p-value = 0.7192</i>		<i>p-value = 0.4052</i>	<i>p-value = 0.1395</i>
Sleep Midpoint (WKEND)						
>5 AM	177/1466 (12.1)	0.99 (0.83, 1.19)	0.91 (0.76, 1.10)	75/1467 (5.1)	1.48 (1.13, 1.94)	1.87 (1.40, 2.49)
≤5 AM	703/5793 (12.1)	1.00	1.00	203/5784 (3.5)	1.00	1.00
		<i>p-value = 0.9485</i>	<i>p-value = 0.3475</i>		<i>p-value = 0.0045</i>	<i>p-value &lt; 0.0001</i>

<sup>1/</sup> Odds ratios are adjusted for age and BMI.