

Supplementary Materials: Sleep in the Supine Position During Pregnancy is Associated with Fetal Cerebral Redistribution

Table S1. Sleep questionnaire.

| Question | | Possible responses |
|--|------------|---|
| Position on going to sleep before you were pregnant? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on going to sleep in the past one month of pregnancy? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on going to sleep in the past one week of pregnancy? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on going to sleep during last night? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on waking up before you were pregnant? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on waking up in the past one month of pregnancy | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on waking up in the past one week of pregnancy? | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |
| Position on waking up during last night | Front | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Back | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Left side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Right side | No / Yes / Rarely (<10%) / Sometimes (10–50%) / Mostly (>50%) |
| | Unsure | No / Yes |

Table S2. Maternal demographics by cerebral redistribution.

| Variable | CPR < 10th centile <i>n</i> =20 (7.3%) | CPR > 10th centile <i>n</i> =254 (92.7%) | p value |
|---|---|---|---------|
| Maternal age (mean, SD) † | 31.4 (2.1) | 31.4 (4.3) | 0.97 |
| Gestational age at ultrasound assessment (weeks) (mean, SD) † | 36.3 (1.0) | 36.4 (0.7) | 0.55 |
| Maternal booking BMI (median, IQR) ‡ | 24.99 (22.02–28.81) | 23.18 (21.09–27.13) | 0.03 |
| Ethnicity¶ | | | |
| Caucasian | 55% (11/20) | 62.6% (159/254) | 0.74 |
| ATSI | 0 | 1.2% (3/254) | |
| Asian | 15% (3/20) | 15.4% (39/254) | |
| Indian | 15% (3/20) | 10.6% (27/254) | |
| Other | 15% (3/20) | 10.2% (26/254) | |
| Parity§ | | | |
| Nulliparous | 20.0% (4/20) | 42.1% (107/254) | 0.052 |
| Multiparous | 80.0% (16/20) | 57.9% (147/254) | |
| Smoking§ | 20.0% (4/20) | 27.6% (70/254) | 0.46 |
| Hypertension¶ | 10.0% (2/20) | 3.6% (9/252) | 0.19 |
| Diabetes¶ | 25.0% (5/20) | 13.9% (35/252) | 0.19 |

† Student t-test; ‡ Mann-Whitney U-test; § Chi-squared test; ¶ Fisher's exact test. CPR: cerebroplacental ratio; BMI: body mass index; ATSI: Aboriginal and Torres Strait Islander; SD: standard deviation; IQR: interquartile range.



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