

Appendix 3. Relationship between bidet toilet use and preterm birth, in detail (n=1293[†])

a) Frequency of bidet toilet use and preterm birth

Rear cleansing use

Frequency of rear cleansing use	Mature birth	Preterm birth	Adjusted OR [†]	95% CI
≥3 times/day	49 (4.5)	8 (3.9)	0.94	0.37, 2.42
1-2 times/day	345 (31.7)	68 (33.2)	1.26	0.84, 1.88
once/2-3 day	116 (10.7)	25 (12.2)	1.24	0.72, 2.15
≤once/4day	91 (8.4)	13 (6.3)	0.85	0.43, 1.67
Never use	475 (43.7)	91 (44.4)	ref	ref
Unknown, missing	12 (1.1)	0 (0)	-	-
Total	1088 (100)	205 (100)		
<i>P</i> for trend [†]			0.30	

Front cleansing use

Frequency of front cleansing use	Mature birth	Preterm birth	Adjusted OR [†]	95% CI
≥3 times/day	139 (12.8)	32 (15.6)	1.44	0.88, 2.36
1-2 times/day	136 (12.5)	24 (11.7)	1.00	0.59, 1.70
once/2-3 day	39 (3.6)	6 (2.9)	0.60	0.21, 1.71
≤once/4day	145 (13.3)	28 (13.7)	1.11	0.67, 1.83
Never use	598 (55.0)	110 (53.7)	ref	ref
Unknown, missing	31(2.8)	5 (2.4)	-	-
Total	1088 (100)	205 (100)		
<i>P</i> for trend [†]			0.31	

Asakura K, Nakano M, Yamada M, Takahashi K, Sueoka K, and Omae K. Effect of bidet toilet use on preterm birth and vaginal flora in pregnant women. *Obstet Gynecol* 2013;121.

The authors provided this information as a supplement to their article.

b) Length of bidet toilet use and preterm birth**Rear cleansing use**

Length of rear cleansing use	Mature birth	Preterm birth	Adjusted OR [†]	95% CI
≥1minute	47 (4.3)	13 (6.3)	1.79	0.84, 3.82
30 seconds- 1 minute	142 (13.1)	25 (12.2)	1.09	0.62, 1.90
15-30 seconds	170 (15.6)	28 (13.7)	1.14	0.69, 1.90
<15 seconds	234 (21.5)	46 (22.4)	1.12	0.71, 1.75
Never use	475 (43.7)	91 (44.4)	ref	ref
Unknown, missing	20 (1.8)	2 (1.0)	-	-
Total	1088 (100)	205 (100)		
P for trend [‡]			0.26	

Front cleansing use

Length of front cleansing use	Mature birth	Preterm birth	Adjusted OR [†]	95% CI
≥1minute	17 (1.6)	6 (2.9)	1.44	0.48, 4.27
30 seconds- 1 minute	96 (8.8)	17 (8.3)	1.15	0.62, 2.15
15-30 seconds	129 (11.9)	29 (14.1)	1.40	0.85, 2.31
<15 seconds	220 (20.2)	37 (18.0)	0.88	0.56, 1.39
Never use	598 (55.0)	110 (53.7)	ref	ref
Unknown, missing	28 (2.6)	6 (2.9)	-	-
Total	1088 (100)	205 (100)		
P for trend [‡]			0.27	

OR, odds ratio; CI, confidence interval.

*The analyzed subjects were the same as those in Appendix 2.

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- [†] Calculated using multivariate logistic regression model including frequency or time of bidet toilet use, maternal age at delivery, parity, cesarean delivery, gestational complications of mother, management of gestational diabetes, sexual intercourse during pregnancy, oral antibiotic use during pregnancy, shower use to wash vulva, and education of mother as covariates.
- [‡] Trends of association were examined using a logistic regression model which assigned scores to the level of the independent variable (frequency or length of rear or front cleansing use).

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