

## APPENDIX

### **Maternal oral health and breastfeeding habits influence infant salivary microbiome**

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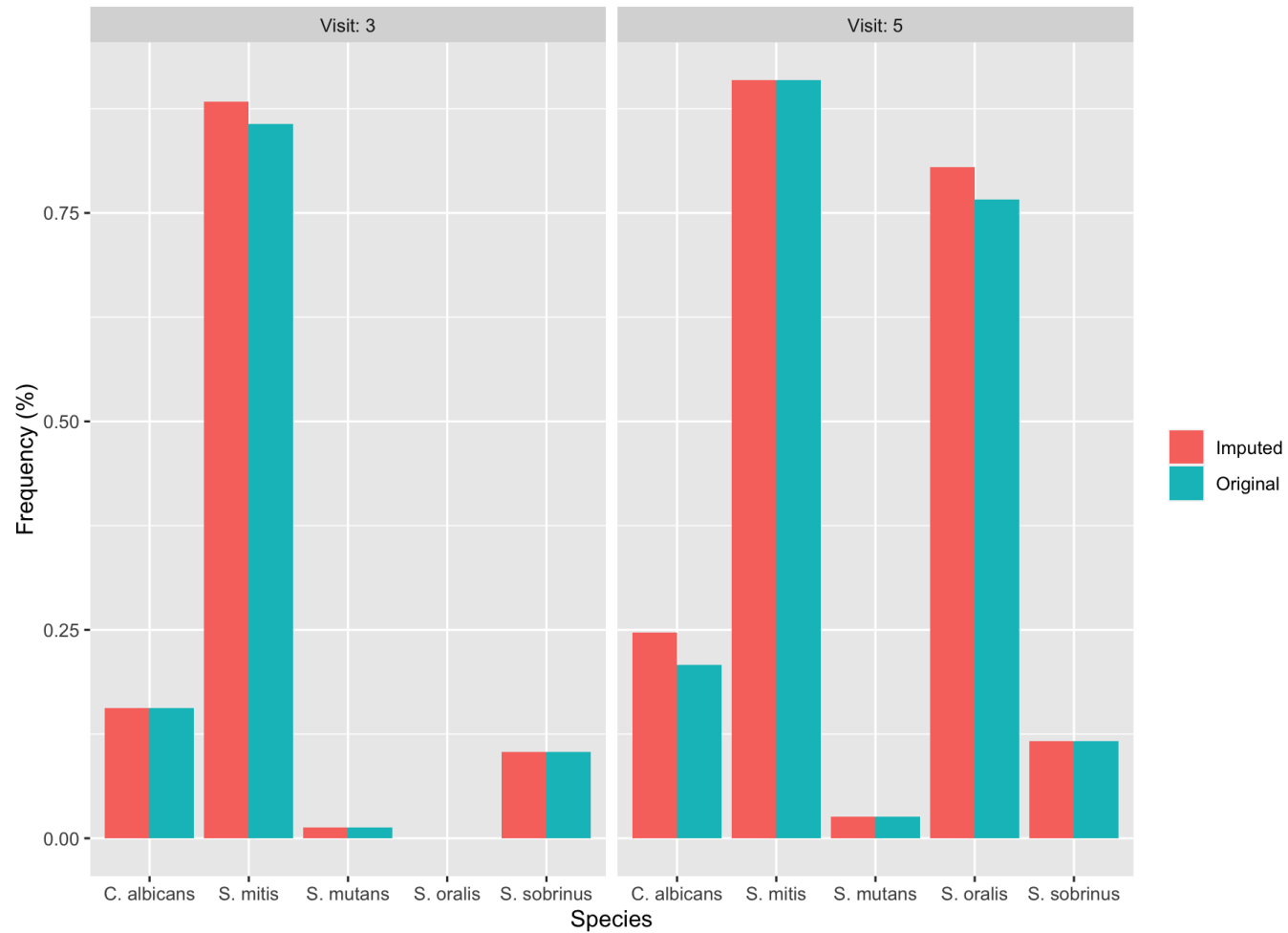
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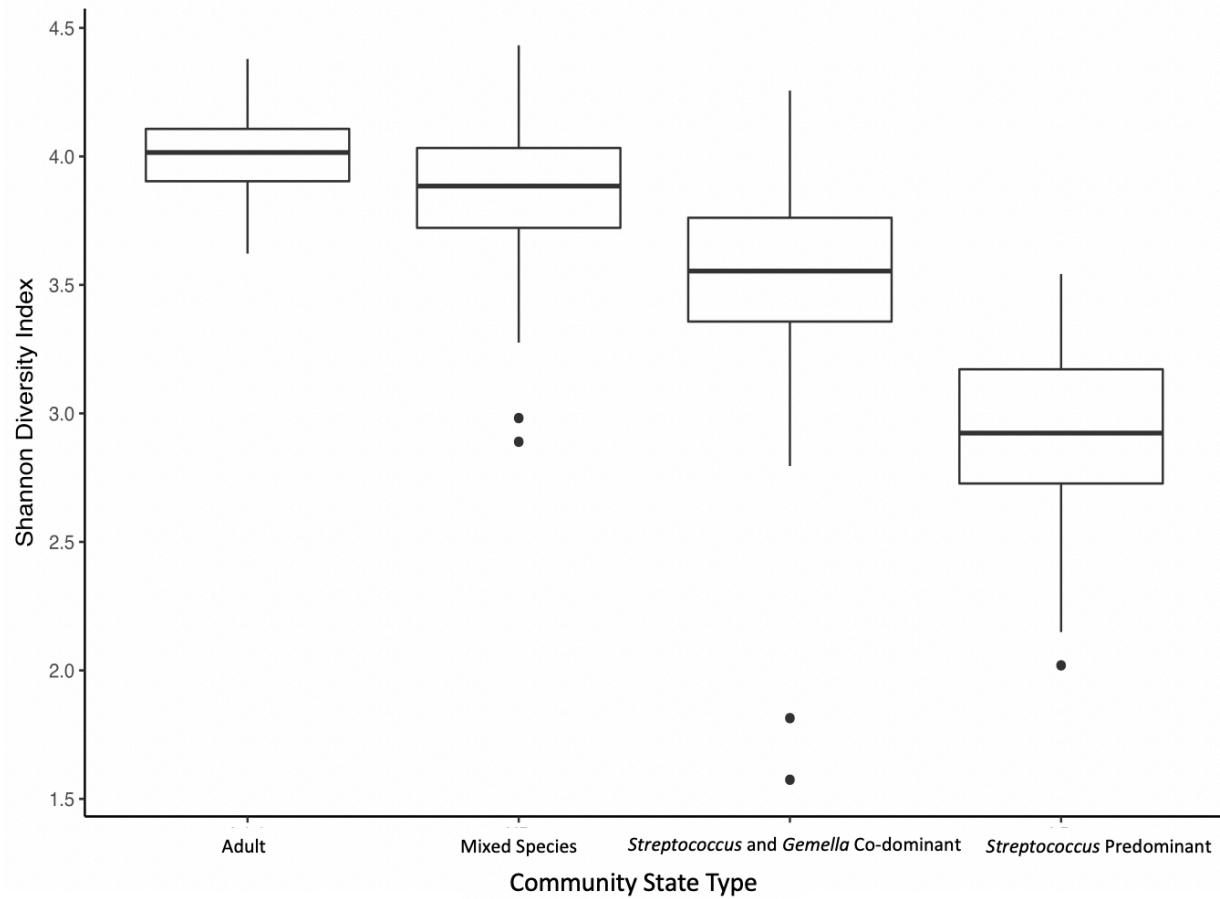
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Appendix Table 3. Prevalence of selected microorganisms using qPCR of mothers over time in Pennsylvania (n = 77) and West Virginia (n = 24). Participants in the Center for Oral Health Research 2.

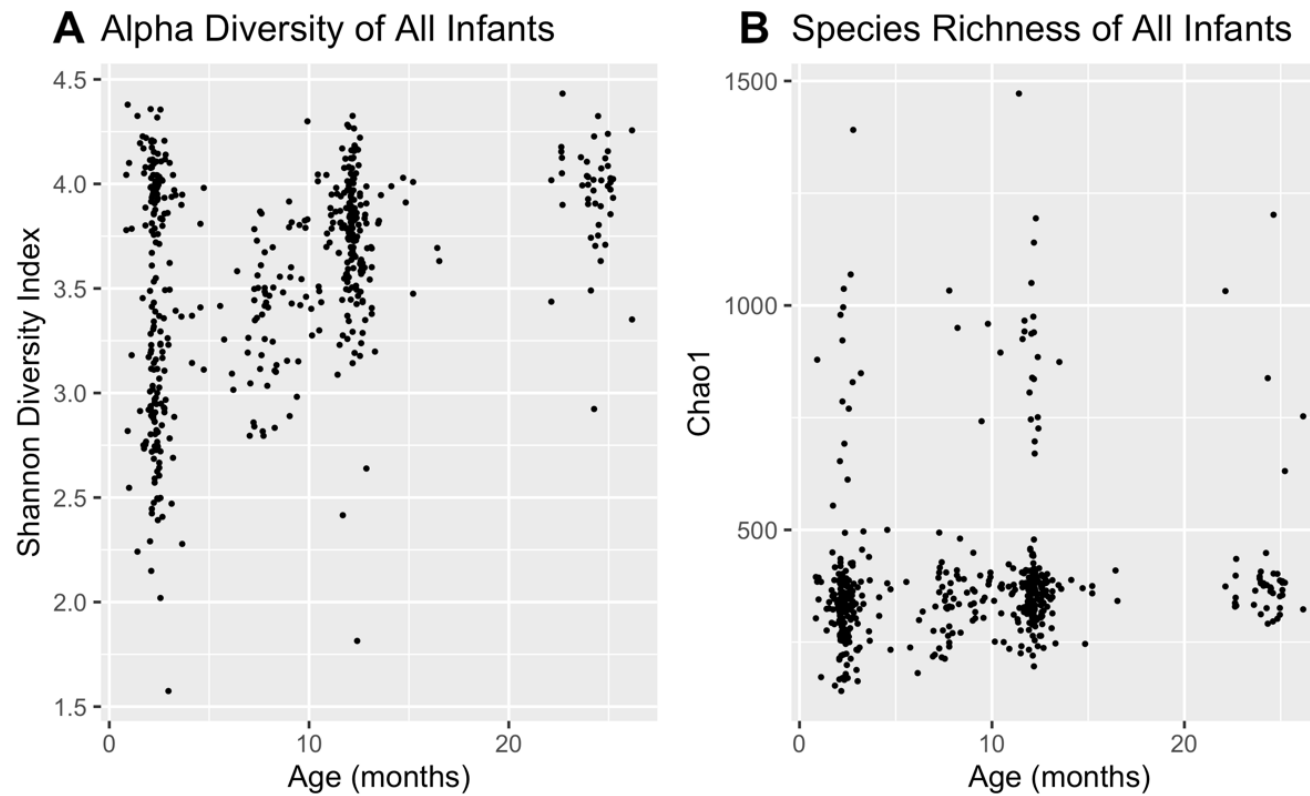
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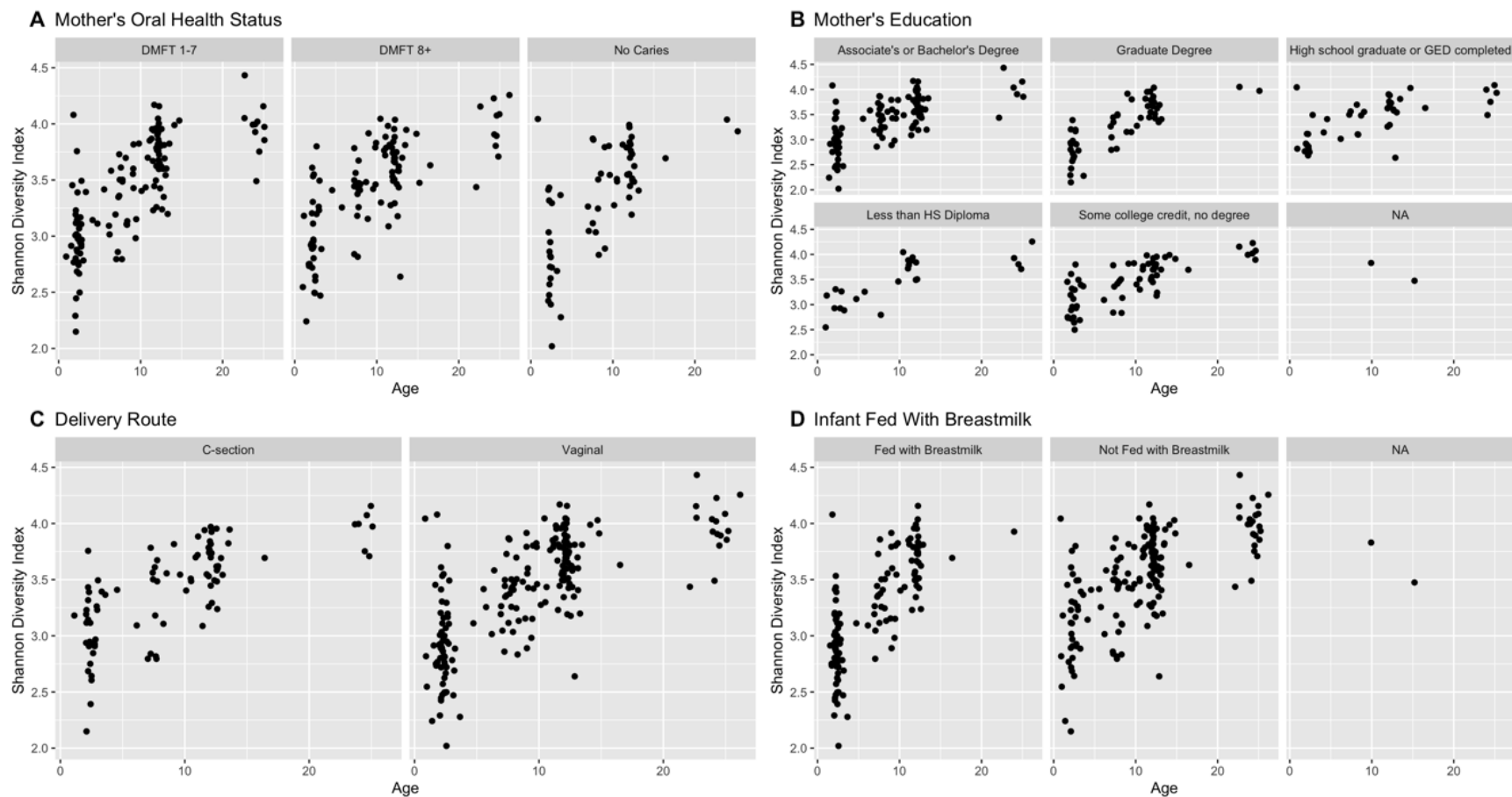
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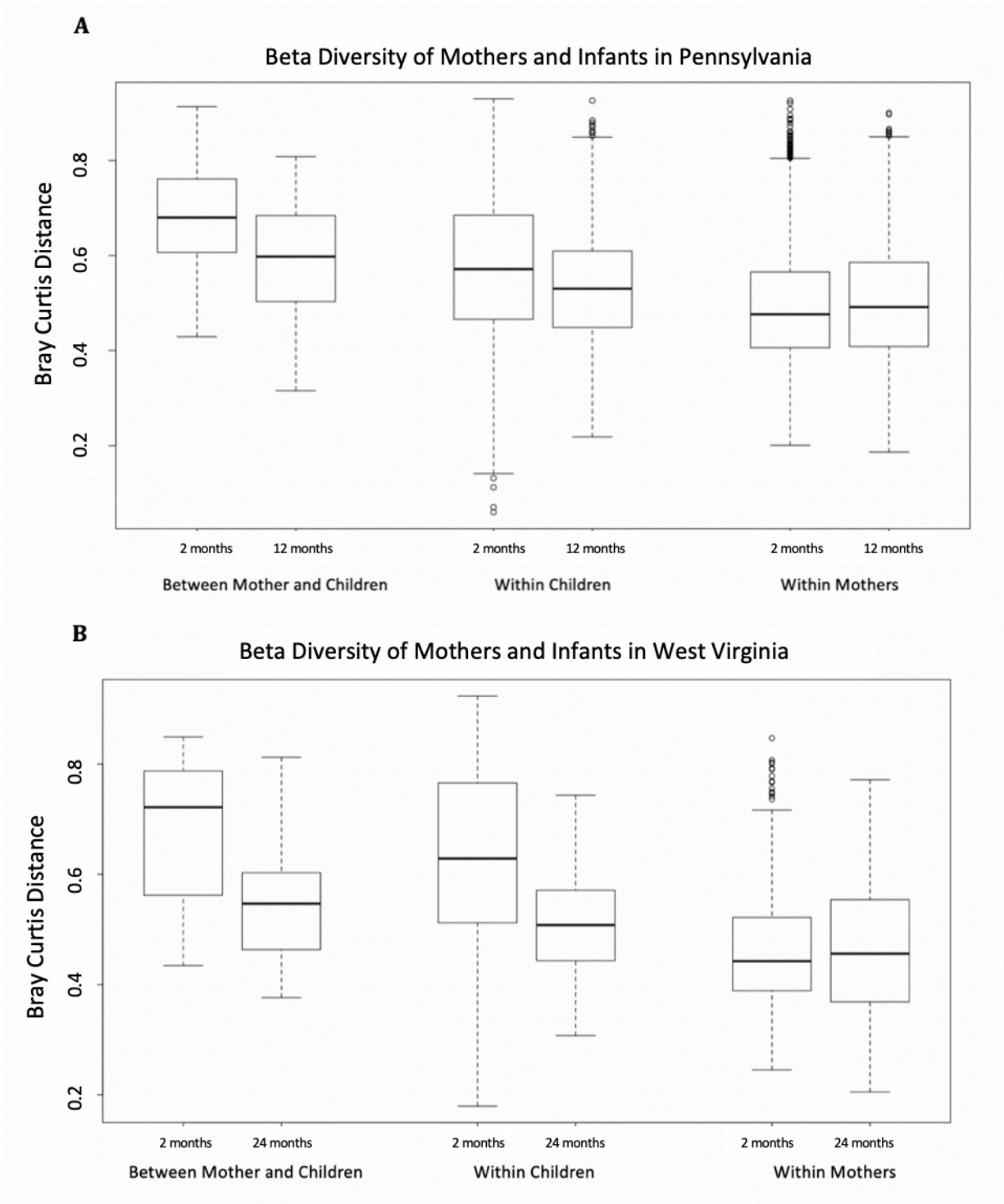
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**Appendix Table 1. Primer sequences and protocol used for qPCR of saliva DNA samples**

Organism	Primer Sequence	Target	Protocol	Reference
<i>S. oralis</i>	Forward 5'- TCCCGGTCAGCAAACCTCCAGCC-3'	<i>gtfR</i>	95 °C for 2 min; 40 cycles of 95 °C for 15 s, 60 °C for 1 min	Henne et al. 2014
	Reverse 5'- GCAACCTTTGGATTTGCAAC-3'	<i>gdh</i>		
<i>S. mitis</i>	Forward 5'- TGAAATCGAGGTTGGCCTAC-3'		95 °C for 2 min; 40 cycles of 95 °C for 15 s, 60 °C for 1 min	Henne et al. 2014
	Reverse 5'- CGTTTAGGAAAATCTC(G/T)CCCTT-3'			
<i>S. mutans</i>	Forward 5'- GCCTACAGCTCAGAGATGCTATTCT-3'	<i>gtfB</i>	50 °C for 2 min; 40 cycles of 95 °C for 10 s, 58 °C for 1 min	Yoshida et al. 2003
	Reverse 5'- GCCATACACCACTCATGAATTGA-3'			
<i>S. sobrinus</i>	Forward 5'- TTCAAAGCCAAGACCAAGCTAGT-3'	<i>gtfT</i>	50 °C for 2 min; 40 cycles of 95 °C for 10 s, 58 °C for 1 min	Yoshida et al. 2003
	Reverse 5'- CCAGCCTGAGATTCAGCTTGT-3'			
<i>C. albicans</i>	Forward 5'- GGATCGCTTTGACAATGG- 3'	18s	98 °C for 2 min; 40 cycles of 98 °C for 1 s, 62 °C for 1 s	Rosenthal et al. 2014
	Reverse 5'- GCGGGTAGTCCTACCTGATTT -3'			

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<b>More frequent in Children</b>		<b>More frequent in Mothers</b>	
Genus*	Effect Size**	Genus*	Effect Size**
<i>Prevotella</i>	1.053	<i>Gemella</i>	-1.669
<i>Megasphaera</i>	1.568	<i>Granulicatella</i>	-1.491
<i>Atopobium</i>	1.667	<i>Acinetobacter</i>	-1.019
<i>Campylobacter</i>	1.703	<i>Enterococcus</i>	-1.023
<i>TM7</i>	1.017		
<i>Selenomonas</i>	1.976		
<i>Solobacterium</i>	1.408		

\* Only shown are taxa where the Benjamini-Hochberg corrected p-value was less than 0.05 and the effect size greater than 1

\*\* Effect size is the median of the ratio of the between group difference and the larger of the variance within groups

Appendix Table 3: Prevalence of selected microorganisms using qPCR of mothers over time in Pennsylvania (n = 77) and West Virginia (n = 24).

	PA MOTHERS		WV MOTHERS	
	<u>2 months</u>	<u>12 months</u>	<u>2 months</u>	<u>24 months*</u>
<i>S. mitis</i>	70.1%	63.6%	70.8%	63.6%
<i>S. mutans</i>	57.1%	58.4%	70.8%	63.6%
<i>S. oralis</i>	93.5%	94.8%	95.8%	100.0%
<i>S. sobrinus</i>	6.5 %	3.9%	83.3%	4.5%
<i>C. albicans</i>	10.4%	11.7%	16.7%	27.3%

\*n=22 at 24 months