The Oral Bacterial Microbiome of Occlusal Surfaces in Children and its Association with Diet And Caries

S5 Table: Microbiome diversity measures in each taxonomic level, by clinical diagnosis categories

Clinical diagnostic categories					
	Total		**Sound**	**AWSL**	
N	**46**		**22**	**24**	

α-diversity					
	Total	**Dominant taxonomy[a]: RA variability (mRA+std)**	**Sound Total (mean+SD)**	**AWSL Total (mean+SD)**	***p-*value[b]**
Species	647	*Granulicatella paradiacens:* 0.9-48.4% (16.5%+12.0) *Streptococcus mutans:* 0.0-55.2% (7.2%+10.5) *Streptococcus sp._str._C300:* 0.2-27.3% (6.2%+5.7) *Lautropia mirabilis:* 0.0-30.4% (4.2%+5.7) *Pseudomonas sp._Oral_Taxon_C61:* 0.0-47.2% (4.8%+12.2) *Streptococcus gordonii:* 0.0-21.5% (4.0%+4.8) *Streptococcus sanguinis:* 0.2-9.9 (3.1%+2.4) *Abiotrophia defectiva:* 0.0-54.7% (2.8%+8.3) *Streptococcus oralis:* 0.0-35.9% (2.7%+6.3) *Veillonella sp._Oral_Taxon_E53:* 0.0-14.2% (2.6%+2.8)	571 (197.8+63.6)	594 (217.4+33.4)	0.19
Genera	107	*Streptococcus:* 3.5-79.5% (33.2%+18.6) *Granulicatella:* 1.0-50.0% (15.7%+12.9) Klebsiella: 0.0-81.1% (9.6%+19.6) *Pseudomonas:* 0.0-67.1% (5.6%+15.2) *Actinomyces:* 0.1-17.3% (3.8%+3.7) *Prevotella:* 0.0-43.4% (8.3%+3.6) *Veillonella:* 0.1-31.4% (5.7%+4.4) *Acinetobacter:* 0.0-76.2% (1.7%+11.1%)	65 (20.5+9.41)	61 (23.5+5.6)	0.19
Families	58	*Streptococcaceae:* 3.5-79.5% (33.2%+18.6) *Carnobacteriaceae:* 1.0-50.0% (15.7%+12.9) *Enterobacteriaceae:* 0.0-86.3% (11.6%+22.6) *Pseudomonadaceae:* 0.0-67.5% (5.6%+15.2) *Veillonellaceae:* 0.1-31.5% (4.8%+5.8) *Actinomycetaceae:* 0.1-17.3% (4.0%+3.8)	38 (18.1+5.5)	30 (19.3+3.2)	0.36
Orders	29	*Lactobacillales:* 9.7-92.0% (52.3%+26.1) *Enterobacteriales:* 0.0-86.3% (11.6%+22.6) *Pseudomonadales:* 0.0-76.2% (7.3%+18.3) *Actinomycetales:* 0.1-19.8% (5.1%+4.4) *Clostridiales:* 0.1-31.8% (5.1%+5.9) *Bacteroidales:* 0.0-44.6% (4.7%+8.7).	21 (12.1+3.2)	19 (13.0+1.9)	0.24
Classes	25	*Bacilli:* 9.7-92.0% (52.7%+26.1) *Gammaproteobacteria:* 0.0-86.3% (19.7%+29.5) *Betaproteobacteria:* 0.0-76.2% (7.3%+18.3) *Actinobacteria:* 0.1-19.8% (5.1%+4.4) *Bacteroides:* 0.0-44.6% (4.7%+8.7)	15 (9.1+2.2)	11 (9.8+1.1)	0.14
Phyla	11	*Firmicutes:* 12.1-92.7 (57.8%+26.5) *Proteobacteria:* 1.3-87.1 (28.5%+28.0) *Actinobacteria:* 0.1-20.5 (5.7%+4.6)	9 (6.0+1.1)	7 (6.8+0.6)	**0.00**

| | | *Bacteroidetes:* 0.0-51.7 (5.6%$\pm$9.6) | | | |
| | | *Fusobacteria:* 0.0-13.3 (1.8%$\pm$3.0) | | | |

[a]Account for 99.4%; 91.9%; 86.1%; 74.9%; 76.6%; 53.3% of the distribution of Phylum, Class, Order, Family, Genus and Specie, respectively.

[b]*p*-value: Unpaired *t* test; 95% confidence interval. In bold, statically significant result.