

**Table S4.** Number of individuals in which each genera was present by COVID-19 positivity, use of breathing assistance, and use of antibiotics.

Genus	COVID-19 Status		Breathing Assistance		Antibiotic Use	
	Negative (n=20)	Positive (n=79)	No (n=67)	Yes (n=12)	No (n=81)	Yes (n=17)
<i>Acinetobacter</i>	5	24	20	4	26	3
<i>Actinomyces</i>	5	15	14	1	19	1
<i>Aggregatibacter</i>	4	11	8	3	12	2
<i>Bradyrhizobium</i>	3	16	14	2	15	4
<i>Burkholderia</i>	6	18	15	3	20	4
<i>Burkholderiaceae_u_g</i>	3	13	12	1	13	3
<i>Corynebacterium</i>	20	78	66	12	80	17
<i>Cutibacterium</i>	14	66	60	6	67	12
<i>Delftia</i>	5	25	23	2	28	2
<i>Dolosigranulum</i>	11	47	41	6	44	13
<i>Enterobacter</i>	16	61	51	10	64	12
<i>Finegoldia</i>	6	24	<b>24*</b>	<b>0*</b>	24	5
<i>Kocuria</i>	0	12	11	1	12	0
<i>Micrococcus</i>	3	26	23	3	23	5
<i>Mycobacterium</i>	2	16	11	5	14	3
<i>Neisseria</i>	5	13	11	2	15	2
<i>Peptoniphilus</i>	4	19	<b>19*</b>	<b>0*</b>	18	4
<i>Pilimelia</i>	2	7	5	2	8	1
<i>Porphyromonas</i>	4	4	3	1	8	0
<i>Prevotella</i>	11	18	14	4	25	4
<i>Propionibacteriaceae_u_g</i>	13	36	30	6	36	13
<i>Propionibacterium</i>	13	46	43	3	50	8
<i>Rothia</i>	10	24	19	5	28	5
<i>Serratia</i>	<b>3*</b>	<b>33*</b>	29	4	30	6
<i>Staphylococcus</i>	20	76	65	11	78	17
<i>Streptococcus</i>	13	43	38	5	46	9
<i>Veillonella</i>	11	25	21	4	31	4

\*Significant difference