

Table S3. P-values for differences in alpha diversity for 13 attributes.

Metric	Attribute	Patients Included	<i>p</i>-value	Test
invsimpson	Breathing assistance	Covid-19+	0.642	KWRST
shannon	Breathing assistance	Covid-19+	0.353	KWRST
invsimpson	Disposition	Covid-19+	0.354	KWRST
shannon	Disposition	Covid-19+	0.268	KWRST
invsimpson	Inhaler	Covid-19+	0.853	KWRST
shannon	Inhaler	Covid-19+	0.884	KWRST
invsimpson	Inpatient	Covid-19+	0.958	KWRST
shannon	Inpatient	Covid-19+	0.692	KWRST
invsimpson	Severity	Covid-19+	0.336	KWRST
shannon	Severity	Covid-19+	0.298	KWRST
invsimpson	COVID-19 status	All	0.903	KWRST
shannon	COVID-19 status	All	0.917	KWRST
invsimpson	Age	All	0.007	Spearman's rank correlation
shannon	Age	All	0.016	Spearman's rank correlation
invsimpson	Age	All	0.002	LRM
shannon	Age	All	0.010	LRM
invsimpson	Antibiotic	All	0.746	KWRST
shannon	Antibiotic	All	0.527	KWRST
invsimpson	BMI	All	0.105	SRC
shannon	BMI	All	0.097	SRC
invsimpson	PPI	All	0.743	KWRST
shannon	PPI	All	0.826	KWRST
invsimpson	Smoker	All	0.047	KWRST
shannon	Smoker	All	0.069	KWRST
invsimpson	Race	All	0.083	KWRST
shannon	Race	All	0.081	KWRST
invsimpson	Sex	All	0.349	KWRST
shannon	Sex	All	0.279	KWRST

KWRS, Kruskal Wallis Rank Sum test; SCR, Spearman's Rank Correlation test; LR, linear regression; BMI, body mass index; PPI, proton pump inhibitor