

## Supplemental Digital Content 1. Summary of terminology and operational definitions

Relative Abundance: the proportion of a taxa in community

Richness: the number of species or taxa presented within a community

Evenness: the distribution and proportion of bacterial taxa across community

$\alpha$ -diversity: a measurement of similarity within a bacterial community

$\beta$ -diversity: a measurement of distance or dissimilarity between bacterial communities

Chao1 index: estimate of  $\alpha$ -diversity that emphasizes rare OTUs

Shannon index: estimate of  $\alpha$ -diversity that factors in abundance and evenness.

Simpson index: estimate of  $\beta$ -diversity