

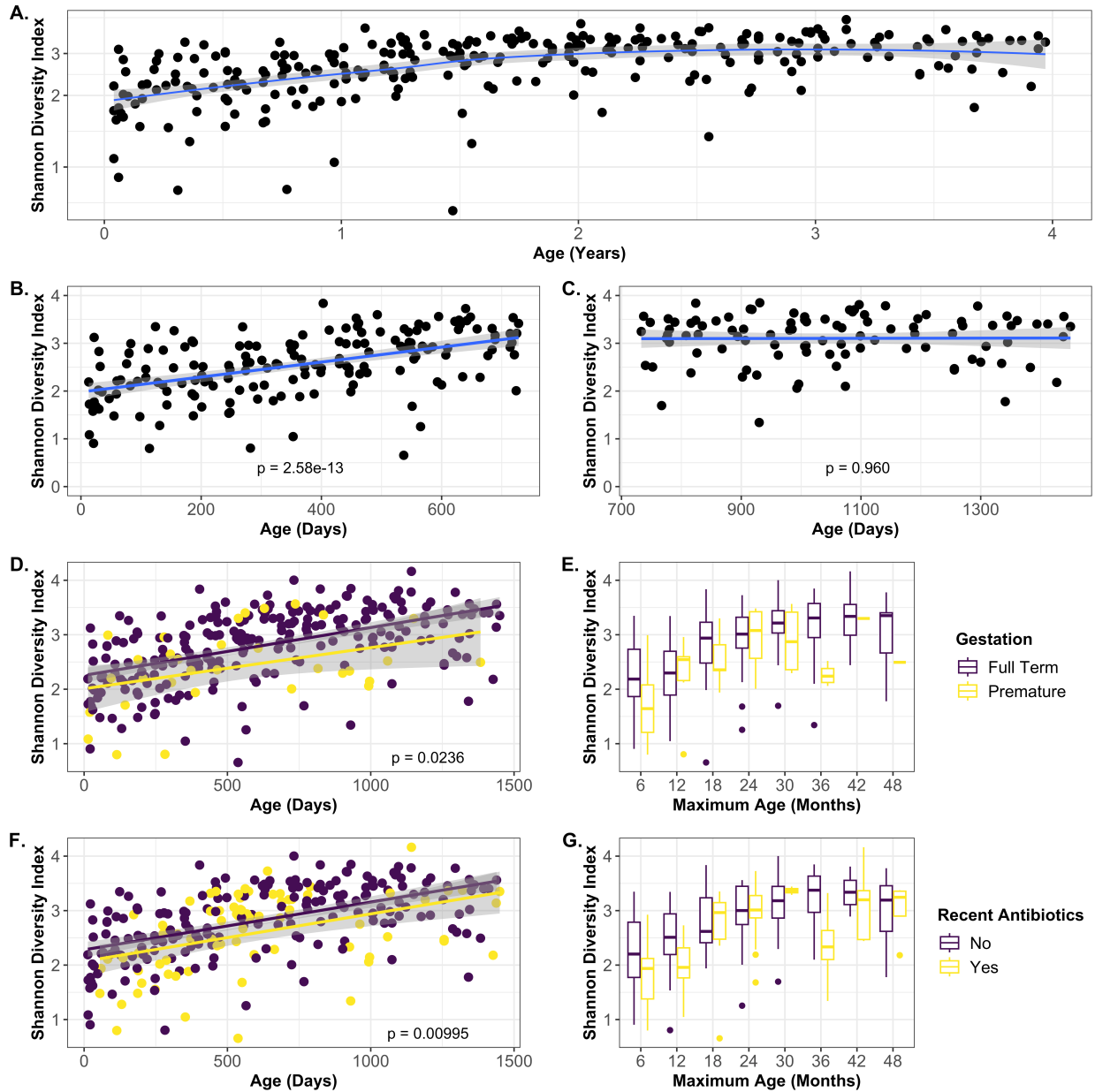


Figure S1. Shannon Diversity Index changes significantly with age, gestation, and antibiotic exposure. A) Age versus Shannon Diversity Index of samples is visualized by individual data points and a LOESS smooth line generated in R by the `geom_smooth()` function. A linear mixed effects model from the R package `nlme` was used to test whether SDI changed significantly with B-C) age in days, D-E) age at gestation, or F-G) antibiotic exposure within the previous 60 days. Subject was set as the random variable to control for multiple sampling. P-values are displayed on the graph. B-C) Figure displays mixed linear regression for samples in 2-year age bins from

B) 0-2 years and C) >2-4 years. E, G) Boxplots of Shannon Diversity Index binned in 6-month age increments.