

Covariate	Taxon	P value	FDR-corrected P value	coefficient
Previous use of penicillin V	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;Other;Other	0.01566264	0.76425058 1	0.01029010 4
Previous use of penicillin V	k__Bacteria;p__Bacteroidetes;c__Flavobacteriia;o__Flavobacteriales;f__Flavobacteriaceae;g__	0.02812016 9	0.76425058 1	-4.86E-005
Previous use of penicillin V	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Oscillospira	0.02998788 6	0.76425058 1	0.00191585 4
Previous use of penicillin V	k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Citrobacter	0.03021339 1	0.76425058 1	- 0.00014001 4
Previous use of penicillin V	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__	0.03393769 4	0.76425058 1	- 0.00143986 4
Covariate	Taxon	P value	FDR-corrected P value	coefficient
Previous use of cotrimoxazole	k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;Other;Other	0.01659753 8	0.73844639 6	- 0.00924830 3
Previous use of cotrimoxazole	k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Coprobaillus	0.01925052 8	0.73844639 6	3.78E-005
Previous use of cotrimoxazole	k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Leuconostocaceae;g__Leuconostoc	0.02003151	0.73844639 6	0.00026292 6
Previous use of cotrimoxazole	k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Oxalobacteraceae;g__	0.02264809 4	0.73844639 6	-5.88E-005
Previous use of cotrimoxazole	k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;Other	0.03776668	0.73844639 6	-2.42E-005

Additional file 3. Association using a linear model of antibiotic prophylaxis and microbiome composition collapsed at genus level