

SUPPLEMENTARY INFORMATION

Supplementary Table S1: ISA of anemic, uninfected infants. s.No and s.Yes refer to if they take 3 supplements.

ASV	s.No	s.Yes	index	stat	p.value	Family	Genus	Species
f762648e6e16e9e b6ba9267d009d1d58	1	0	1	0.467555	0.040	f__Enterococcaceae	g__Enterococcus	NA
e657205bc51c1d b7e6a38c33a084749d	1	0	1	0.465926	0.010	f__Oscillospira ceae	g__uncultured	s__uncultured_rumen
bf611493002f59 18a68778bde2de f567	0	1	2	0.597341	0.045	f__Bacteroidaceae	g__Bacteroides	NA
b6f8aeaab03fae 1a781721ea2cb80bb	1	0	1	0.471404	0.010	f__Bifidobacteriaceae	g__Bifidobacterium	NA
87c18e8ee37899 54404f2c1a35079a09	0	1	2	0.464990	0.025	f__Lachnospira ceae	g__[Eubacterium]_hallii_group	s__uncultured_organism
6851a4ee264b56 be2fff4686ce269907	0	1	2	0.571697	0.020	f__Lachnospira ceae	g__[Eubacterium]_hallii_group	NA
5a2676b27aa168 76cffaca5a4dca4669	1	0	1	0.493166	0.045	f__Actinomyce taceae	g__Actinomyces	NA
3b10877be10e34 af0dff41273e61557c	1	0	1	0.384900	0.025	f__Atopobiaceae	g__Libanicoccus	s__human_gut

Supplementary Table S2: ISA of anemic, infected infants. s.No and s.Yes refer to if they take 6 supplements.

ASV	s.No	s.Yes	index	stat	p.value	Family	Genus	Species
feb1c288cd46f6fd9bc3c2c35970c bdf	0	1	2	0.797871	0.045	f_Lactobacillaceae	g_Lactobacillus	s_Lactobacillus_mucosae
f762648e6e16e9eb6ba9267d009d1 d58	1	0	1	0.677883	0.025	f_Enterococcaceae	g_Enterococcus	NA
945184b6386c192c0066e0a98a15 4780	1	0	1	0.778567	0.035	f_Enterobacteriaceae	NA	NA
3916a456bb0a3bfd02c15fd537ff5 923	1	0	1	0.534522	0.040	f_Veillonellaceae	g_Megasphaera	s_Megasphaera_micronuciformis
c81d2bd60b0b2a355bc6e63534ec c66c	1	0	1	0.534522	0.030	f_Lachnospiraceae	NA	NA
a248d70e41d75f4773ef7c94e831a 21a	1	0	1	0.549397	0.030	f_Lachnospiraceae	NA	NA