Additional file 8 Microbial taxa fold-changes (V2/V1 and V3/V1) in the severe subgroup.

Taxa		Severe subgroup (n=54)							
		Placebo (n=27)				EpiCor (n=27)			
		V2/V1		V3/V1		V2/V1		V3/V1	
		FC	*p*-val.	FC	*p*-val.	FC	*p*-val.	FC	*p*-val.
Phylum Actinobacteria									
Bifidobacteriaceae	-	0.72	*0.162*	1.05	*0.927*	1.04	*0.956*	1.07	*0.879*
	Bifidobacterium	0.72	***0.032***	1.05	*0.859*	1.04	*0.911*	1.07	*0.766*
Coriobacteriaceae	-	1.06	*0.928*	1.07	*0.904*	1.21	*0.637*	0.96	*0.981*
	Asaccharobacter	1.41	*0.982*	1.42	*0.982*	1.40	*0.967*	1.34	*0.976*
	Collinsella	1.29	*0.383*	1.30	*0.351*	0.82	*0.847*	0.66	*0.560*
	Coriobacteriaceae_uncl.	0.61	*0.620*	0.73	*0.789*	1.84	*0.383*	1.43	*0.769*
	Eggerthella	2.60	*1.000*	1.87	*1.000*	1.00	*1.000*	0.00	*1.000*
	Enterorhabdus	1.33	*0.993*	0.64	*0.991*	0.51	*0.953*	0.63	*0.973*
	Slackia	0.95	*1.000*	0.38	*0.964*	3.20	*0.854*	0.80	*0.999*
Propionibacteriaceae	-	0.07	*0.991*	0.01	*1.000*	2.11	*0.997*	1.56	*0.999*
	Propionibacterium	0.07	*0.983*	0.01	*0.999*	2.11	*0.993*	1.56	*0.998*
Phylum Bacteroidetes									
Bacteroidaceae	-	0.84	***0.054***	0.89	*0.216*	1.15	*0.118*	1.14	*0.161*
	Bacteroides	0.84	***0.004***	0.89	***0.054***	1.15	***0.015***	1.14	***0.027***
Bacteroidetes_uncl.	-	1.31	*0.949*	0.86	*0.989*	0.96	*0.999*	0.89	*0.989*
Bacteroidales_uncl.	-	1.21	*0.992*	0.67	*0.981*	1.20	*0.997*	1.93	*0.943*
Porphyromonadaceae	-	0.86	*0.549*	1.03	*0.979*	1.13	*0.513*	0.96	*0.926*
	Barnesiella	0.83	*0.883*	0.84	*0.892*	1.39	*0.227*	1.31	*0.371*
	Butyricimonas	1.82	*0.979*	1.63	*0.988*	0.80	*0.987*	0.77	*0.984*
	Odoribacter	0.65	*0.969*	1.27	*0.982*	1.59	*0.980*	1.68	*0.973*
	Porphyromonadaceae_uncl.	0.93	*0.973*	1.17	*0.836*	1.07	*0.944*	0.85	*0.779*
	Parabacteroides	0.93	*0.969*	0.98	*0.998*	0.84	*0.893*	0.54	*0.415*
Prevotellaceae	-	0.77	*0.539*	1.03	*0.987*	1.43	*0.138*	1.01	*0.999*
	Alloprevotella	1.33	*0.987*	2.11	*0.860*	0.71	*0.991*	0.79	*0.996*
	Hallella	1.00	*1.000*	1.00	*1.000*	0.00	*0.924*	0.00	*0.924*
	Paraprevotella	0.02	*0.624*	0.01	*0.619*	1.71	*0.681*	0.14	*0.575*
	Prevotella	0.80	*0.603*	1.11	*0.856*	1.68	***0.039***	1.35	*0.389*
	Prevotellaceae_uncl.	1.41	*0.971*	1.21	*0.992*	0.94	*0.998*	1.19	*0.982*
Rikenellaceae	-	1.15	*0.524*	0.74	*0.154*	0.55	***0.035***	0.64	*0.113*
	Alistipes	1.15	*0.288*	0.74	***0.029***	0.55	***0.001***	0.64	***0.013***
Phylum Firmicutes									
Acidaminococcaceae	-	1.51	***0.099***	1.70	***0.017***	1.06	*0.975*	1.07	*0.965*
	Acidaminococcus	14.95	*0.174*	18.50	***0.070***	0.00	*1.000*	0.00	*1.000*
	Acidaminococcaceae_uncl.	1.15	*0.999*	1.85	*0.953*	1.53	*0.977*	1.45	*0.984*
	Succiniclasticum	1.62	*0.614*	1.46	*0.760*	3.09	*0.646*	0.90	*0.999*
	Phascolarctobacterium	1.06	*0.972*	1.21	*0.669*	0.83	*0.712*	1.05	*0.969*
Clostridiales_uncl.	-	0.82	*0.564*	1.04	*0.969*	1.16	*0.594*	1.19	*0.488*
Clostridiaceae	-	0.75	*0.956*	0.66	*0.918*	0.92	*0.999*	0.84	*0.996*
	Clostridium_sensu_stricto	0.75	*0.914*	0.66	*0.843*	0.92	*0.998*	0.84	*0.992*
Enterococcaceae	-	1.02	*1.000*	1.28	*0.999*	0.81	*1.000*	0.59	*1.000*
	Enterococcus	1.02	*1.000*	1.28	*0.999*	0.81	*1.000*	0.59	*1.000*
Erysipelotrichaceae	-	1.41	*0.910*	1.12	*0.991*	1.61	*0.895*	2.13	*0.686*
	Catenibacterium	1.16	*0.999*	1.17	*0.999*	0.27	*0.999*	0.27	*0.999*
	*Clostridium*_XVIII	4.08	*0.932*	1.79	*0.995*	3.16	*0.660*	2.95	*0.712*
	Coprobacillus	1.45	*1.000*	1.66	*0.999*	0.40	*0.999*	0.74	*1.000*
	Erysipelotrichaceae_uncl.	1.17	*0.985*	1.01	*1.000*	0.75	*0.993*	0.96	*1.000*
	Turicibacter	1.00	*1.000*	1.29	*1.000*	0.70	*1.000*	8.85	*0.870*
Firmicutes_uncl.	-	1.04	*0.936*	1.15	*0.386*	0.82	*0.227*	0.59	***0.002***
Lachnospiraceae	-	1.09	***0.000***	0.98	*0.593*	1.03	*0.294*	1.09	***0.001***
	Anaerostipes	0.89	*0.901*	0.63	*0.318*	2.81	***0.001***	2.69	***0.003***
	Blautia	1.86	***0.000***	1.36	***0.000***	1.00	*0.999*	1.05	*0.585*

	*Clostridium*_XlVa_uncl.	0.92	*0.991*	1.08	*0.991*	1.10	*0.959*	0.99	*1.000*
	*Clostridium*_XlVb_uncl.	0.98	*1.000*	0.83	*0.998*	1.06	*1.000*	0.62	*0.988*
	Coprococcus	0.86	*0.505*	0.78	*0.195*	0.78	*0.257*	0.71	*0.104*
	Dorea	1.03	*0.979*	0.95	*0.952*	1.08	*0.935*	0.75	*0.510*
	Lachnospira	0.62	*0.968*	2.29	*0.691*	0.29	*0.653*	1.10	*0.990*
	Lachnospiraceae_uncl.	0.91	*0.296*	0.89	*0.189*	0.86	*0.152*	1.07	*0.581*
	Howardella	1.04	*1.000*	1.98	*0.986*	0.40	*0.998*	0.52	*0.999*
	Roseburia	0.92	*0.432*	0.75	***0.002***	1.15	*0.197*	1.21	***0.043***
	Ruminococcus	1.13	*0.942*	1.97	***0.070***	1.21	*0.802*	1.41	*0.439*
Lactobacillaceae	-	1.29	*0.994*	0.17	*0.950*	0.84	*1.000*	1.04	*1.000*
	Lactobacillus	1.29	*0.987*	0.17	*0.902*	0.84	*1.000*	1.04	*1.000*
Peptostreptococcaceae	-	1.01	*1.000*	1.22	*0.855*	0.60	*0.679*	0.79	*0.894*
	*Clostridium*_XI	1.01	*1.000*	1.22	*0.733*	0.60	*0.456*	0.79	*0.793*
Ruminococcaceae	-	0.90	***0.000***	0.92	***0.004***	0.93	***0.031***	0.89	***0.000***
	Butyricicoccus	0.66	*0.819*	0.67	*0.820*	1.12	*0.994*	0.78	*0.980*
	Faecalibacterium	0.64	***0.000***	0.70	***0.001***	0.87	***0.086***	0.77	***0.001***
	Flavonifractor	1.74	*0.930*	1.49	*0.969*	1.38	*0.984*	1.28	*0.991*
	Gemmiger	0.82	*0.727*	0.67	*0.358*	0.72	*0.640*	0.95	*0.985*
	*Clostridium*_IV_uncl.	0.40	*0.809*	0.89	*0.993*	0.35	*0.958*	0.36	*0.959*
	Oscillibacter	0.53	*0.834*	0.86	*0.984*	1.87	*0.844*	2.53	*0.606*
	Ruminococcaceae_uncl.	0.98	*0.760*	1.04	*0.445*	0.92	*0.177*	0.92	*0.182*
	Ruminococcus	1.13	*0.618*	0.95	*0.935*	1.15	*0.626*	0.89	*0.782*
Streptococcaceae	-	0.98	*1.000*	1.10	*0.996*	0.70	*0.943*	0.98	*1.000*
	Lactococcus	0.78	*0.996*	1.10	*0.999*	0.44	*0.999*	1.24	*1.000*
	Streptococcus	1.07	*0.998*	1.10	*0.997*	0.71	*0.902*	0.96	*0.998*
Veillonellaceae	-	1.82	***0.014***	1.48	*0.202*	0.95	*0.980*	1.34	*0.371*
	Dialister	1.98	***0.000***	1.50	***0.085***	1.00	*1.000*	1.43	*0.103*
	Megamonas	3.26	*0.996*	2.12	*0.999*	2.40	*0.999*	0.81	*1.000*
	Megasphaera	0.74	*0.990*	1.19	*0.995*	0.53	*0.942*	0.77	*0.986*
	Mitsuokella	0.40	*0.999*	1.03	*1.000*	1.49	*1.000*	1.34	*1.000*
	Veillonella	0.87	*1.000*	2.05	*0.990*	0.40	*1.000*	0.62	*1.000*
Phylum Proteobacteria									
Alphaproteobacteria_uncl.	-	1.00	*1.000*	1.00	*1.000*	0.71	*0.997*	1.93	*0.967*
Desulfovibrionaceae	-	1.88	*0.993*	4.18	*0.915*	0.80	*0.996*	1.01	*1.000*
	Desulfovibrio	2.88	*0.989*	7.83	*0.860*	1.28	*1.000*	2.02	*0.999*
	Desulfovibrionaceae_uncl.	1.12	*1.000*	1.41	*0.999*	0.77	*0.990*	0.94	*0.999*
Enterobacteriaceae	-	0.50	*0.911*	1.23	*0.981*	0.66	*0.838*	0.77	*0.926*
	Escherichia/Shigella	0.46	*0.871*	1.33	*0.947*	0.63	*0.772*	0.83	*0.945*
	Klebsiella	0.64	*0.997*	0.77	*0.999*	0.75	*0.991*	0.59	*0.974*
Sutterellaceae	-	0.94	*1.000*	1.44	*0.999*	1.26	*0.998*	0.95	*1.000*
	Parasutterella	1.07	*1.000*	0.65	*1.000*	1.10	*1.000*	0.62	*0.998*
	Sutterella	0.86	*1.000*	1.72	*0.997*	1.44	*0.997*	1.27	*0.999*
Oxalobacteraceae	-	1.00	*1.000*	1.00	*1.000*	0.00	*0.997*	0.00	*0.997*
	Oxalobacteraceae_uncl.	1.00	*1.000*	1.00	*1.000*	0.00	*0.994*	0.00	*0.994*
Pasteurellaceae	-	0.70	*1.000*	0.19	*1.000*	1.76	*0.998*	1.20	*1.000*
	Haemophilus	0.70	*1.000*	0.19	*1.000*	1.76	*0.996*	1.20	*1.000*
Phylum Spirochaetae									
Brachyspiraceae	-	1.00	*1.000*	1.56	*0.997*	1.01	*1.000*	0.76	*0.999*
	Brachyspira	1.00	*1.000*	1.56	*0.994*	1.01	*1.000*	0.76	*0.999*
Spirochaetaceae	-	1.83	*1.000*	1.48	*1.000*	1.78	*1.000*	0.78	*1.000*
	Treponema	1.83	*0.999*	1.48	*1.000*	1.78	*1.000*	0.78	*1.000*
Phylum Verrucomicrobia									
Verrucomicrobiaceae	*Akkermansia*	1.22	*0.707*	1.23	*0.680*	0.77	*0.825*	0.84	*0.908*

Legend: A two-way repeated measures ANOVA with Dunnett's multiple comparison's test against V1 was performed to test for significant changes over time within each group (p-values ≤ 0.05 and < 0.1 are depicted in bold text). FC, fold-change; V, visit.