

Supplementary Table S5: Microbial diversity is associated with race/ethnicity but not other covariates (Shannon diversity index, ANOVA test).

Category	Covariate	<i>p</i> -value	FDR	
SES	Race/Ethnicity	0.049	0.56	
	Sex	0.46	0.90	
	Insurance	0.61	0.90	
	Education	0.38	0.90	
Diet	WholeGrain (% of grains that are whole grains)	0.81	0.90	
	Meat	0.80	0.90	
	FruitVeg (servings of fruits and vegetables)	0.68	0.90	
	BMI	0.84	0.90	
	Alcohol	0.21	0.73	
	Fiber	0.92	0.92	
Treatment	Any surgery	0.77	0.90	
	Any ostomy	0.08	0.58	
	Ileostomy	0.17	0.73	
	Radiation	0.58	0.90	

Supplementary Table S6: Microbial composition is associated with race/ethnicity and ileostomy but not other patient covariates (Bray-Curtis ordination, PERMANOVA test).

Category	Covariate	R ²	<i>p</i> -value	FDR
SES	Race/Ethnicity	0.15	0.036	0.28
	Sex	0.06	0.21	0.58
	Insurance	0.20	0.18	0.58
	Education	0.060	0.29	0.58
Diet	WholeGrain (% of grains that are whole grains)	0.15	0.94	0.94

	Meat	0.15	0.90	0.94
	FruitVeg (servings of fruits and vegetables)	0.16	0.79	0.92
	BMI	0.11	0.55	0.86
	Alcohol	0.054	0.64	0.90
	Fiber	0.062	0.34	0.60
Treatment	Any surgery	0.051	0.77	0.92
	Any ostomy	0.065	0.26	0.58
	Ileostomy	0.091	0.040	0.28
	Radiation	0.069	0.16	0.58