

Supplementary Table 6: A. Number of subjects with gut microbiome profiles at baseline that belong to the different disease categories (no_disease refers to those individuals who were not identified with any disease symptoms). B. Results of the Mann-Whitney test based comparative analysis of the diet-associated microbiome indices for the individuals with different diseases with control (no_disease type) individuals at baseline

(A)

Disease_Type	Number of Subjects
no_disease	324
high_cholesterol	183
thyroid	61
diabetes	30
cancer	27
hypertension	21
food_allergy	15
respiratory_disease	14
swollen_ankle	10
kidney_disease	6
heart_disease	5
inflammation	3

(B)

Disease Type	Diet-Associated Microbiome Index	
	Direction	Mann-Whitney P-value
hypertension	Lower In Disease	0.005346
diabetes	Lower In Disease	0.005646
inflammation	Lower In Disease	0.02727
cancer	Lower In Disease	0.097
respiratory_disease	Lower In Disease	0.1642
food_allergy	Lower In Disease	0.2569
swollen_ankle	Lower In Disease	0.3086
heart_disease	Lower In Disease	0.3212
high_cholesterol	Lower In Disease	0.4621
kidney_disease	Higher In Disease	0.7945
thyroid	Higher In Disease	0.8938