

Supplementary Table S5. Multivariable linear regression analysis for determinants of MMSE.

Variable	B	SE	t	p_value	CI_low	CI_high	Std_beta	VIF
Cys-eGFR (mL/min,	0.037766208	0.017115138	2.206596741	0.028	0.004147037	0.07138538	0.222781846	7.018400158
g__Bifidobacterium	0.368627265	0.106618665	3.457436515	0.001	0.159196814	0.578057715	0.139215578	1.116327732
RBC(x104/ul)	0.007204985	0.002572278	2.801013063	0.005	0.002152273	0.012257696	0.119383729	1.250790252
IgM	0.002522615	0.000969905	2.600888388	0.010	0.000617436	0.004427794	0.100979109	1.037872765
LD	0.590901617	0.247350055	2.388928587	0.017	0.105033279	1.076769955	0.093054301	1.04469868
g__Lachnospira	0.239128921	0.102532721	2.332220574	0.020	0.037724467	0.440533375	0.090035208	1.026147936
Heart	0.787157844	0.363862982	2.163335881	0.031	0.072423812	1.501891876	0.084033434	1.038916856
g__Prevotella	0.212087772	0.105923097	2.002280695	0.046	0.004023622	0.420151922	0.078982682	1.071367096
SexM1F2	0.238093507	0.231323726	1.029265398	0.304	-0.216294403	0.692481417	0.044483055	1.286053202
EPA(umol/L)	-0.005113778	0.002360475	-2.166419046	0.031	-0.009750445	-0.00047711	-0.085892938	1.08231695
Education01	-0.536624901	0.22480186	-2.387101691	0.017	-0.978201945	-0.095047856	-0.094001645	1.06771056
IgA	-0.002301777	0.000958253	-2.402055452	0.017	-0.004184069	-0.000419486	-0.094362963	1.062579803
IL-6(pg/mL)	-0.050267213	0.018414089	-2.729823507	0.007	-0.086437905	-0.01409652	-0.105797169	1.034197369
Age	-0.074759478	0.021244419	-3.519017244	0.000	-0.116489773	-0.033029183	-0.156382397	1.359744836
Frailty01	-1.176365692	0.296580364	-3.966431485	0.000	-1.758936851	-0.593794532	-0.158764166	1.103137205