

**Supplement Table S1: Sensitivity Analyses of associations of types of Dietary Diversity, Dietary Pattern with depressive symptoms.**

	Diet Diversity Index (DDI)	Protein-enriched Diet Diversity Index (PEDDI)	Anti-inflammatory Diet Diversity Index (AIDDI)
<b>MMSE ≥ 21</b>			
Model 1	0.88 (0.87-0.90) *	0.87 (0.85-0.90) *	0.76 (0.74-0.79) *
Model 2	0.90 (0.88-0.92) *	0.90 (0.88-0.93) *	0.78 (0.76-0.81) *
Model 3	0.91 (0.89-0.93) *	0.91 (0.88-0.94) *	0.80 (0.77-0.83) *
Model 4	0.91 (0.89-0.92) *	0.91 (0.88-0.93) *	0.80 (0.77-0.83) *
<b>Without ADL</b>			
Model 1	0.88 (0.86-0.90) *	0.87 (0.85-0.90) *	0.75 (0.73-0.78) *
Model 2	0.89 (0.88-0.91) *	0.90 (0.87-0.93) *	0.77 (0.75-0.80) *
Model 3	0.91 (0.89-0.92) *	0.91 (0.88-0.94) *	0.79 (0.77-0.82) *
Model 4	0.90 (0.88-0.92) *	0.90 (0.87-0.93) *	0.79 (0.76-0.82) *
<b>No Imputation</b>			
Model 1	0.88 (0.87-0.90) *	0.88 (0.85-0.90) *	0.77 (0.74-0.79) *
Model 2	0.90 (0.88-0.92) *	0.90 (0.88-0.93) *	0.78 (0.76-0.81) *
Model 3	0.91 (0.89-0.93) *	0.91 (0.89-0.94) *	0.80 (0.78-0.83) *
Model 4	0.91 (0.89-0.93) *	0.91 (0.88-0.94) *	0.80 (0.77-0.83) *

Model 1 controlling for gender, age;

Model 2 controlling for gender, age, hukou, ethnic, BMI, education;

Model 3 controlling for gender, age, hukou, ethnic, BMI, education, physical activities, smoking, drinking;

Model 4 controlling for gender, age, hukou, ethnic, BMI, education, smoking, drinking, feeding in ADL disability, physical activities, dementia, tooth count.

\* P<0.05.