

Appendices

Supplementary table 1: Association between blood selenium level and NAFLD diagnosed by ALT&AST and FLI.

	NAFLD diagnosed by AST&ALT			NAFLD diagnosed by FLI		
	Model 1 β (95 CI)	Model 2 β (95 CI)	Model 3 β (95 CI)	Model 1 β (95 CI)	Model 2 β (95 CI)	Model 3 β (95 CI)
Blood selenium level (ug/L, quartile)						
Q1	Reference	Reference	Reference	Reference	Reference	Reference
Q2	1.23 (0.89, 1.68)	1.16 (0.85, 1.60)	1.15 (0.83, 1.59)	1.07 (0.83, 1.40)	1.09 (0.83, 1.42)	0.88 (1.52, 1.47)
Q3	1.42 (1.05, 1.93)	1.36 (0.99, 1.85)	1.33 (0.97, 1.82)	1.38 (1.06, 1.80)	1.38 (1.06, 1.81)	1.65 (1.01, 2.72)
Q4	1.45 (1.07, 1.97)	1.35 (0.99, 1.85)	1.30 (0.95, 1.79)	1.45 (1.11, 1.88)	1.48 (1.13, 1.94)	1.65 (1.00, 2.72)
P for trend	0.01	0.04	0.09	<0.01	<0.01	0.01

Model 1: no covariates were adjusted. Model 2: age, gender and race/ethnicity, education level were adjusted. Model 3: age, gender, race/ethnicity, BMI, waist circumference, smoking status, physical activity, dietary selenium intake and diabetes were adjusted. NAFLD: Non-alcoholic fatty liver disease; ALT: Alanine aminotransferase; AST: Aspartate aminotransferase; FLI: Fatty liver index

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Supplementary table 2: Association between blood selenium level and advanced liver fibrosis diagnosed by FIB-4 and BARD.

	FIB-4			BARD		
	Model 1 β (95 CI)	Model 2 β (95 CI)	Model 3 β (95 CI)	Model 1 β (95 CI)	Model 2 β (95 CI)	Model 3 β (95 CI)
Blood selenium level (ug/L, quartile)						
Q1	Reference	Reference	Reference	Reference	Reference	Reference
Q2	0.45 (0.21, 0.95)	0.51 (0.24, 1.11)	0.46 (0.21, 1.00)	0.78 (0.65, 0.94)	0.83 (0.69, 1.00)	0.71 (0.57, 0.89)
Q3	0.54 (0.27, 1.10)	0.62 (0.30, 1.30)	0.59 (0.28, 1.24)	0.71 (0.59, 0.85)	0.78 (0.64, 0.94)	0.62 (0.49, 0.77)
Q4	0.31 (0.13, 0.74)	0.35 (0.15, 0.84)	0.32 (0.13, 0.77)	0.63 (0.53, 0.76)	0.73 (0.60, 0.88)	0.59 (0.47, 0.73)
P for trend	<0.01	0.02	0.01	<0.01	<0.01	<0.01

Model 1: no covariates were adjusted. Model 2: age, gender and race/ethnicity, education level were adjusted. Model 3: age, gender, race/ethnicity, BMI, waist circumference, smoking status, physical activity, dietary selenium intake and diabetes were adjusted. FIB-4: Fibrosis-4 index; BARD: Body mass index, AST/ALT Ratio, Diabetes score