

Supplementary Table 1 PIPs of each Vitamin B for the prevalence of OA in BKMR model.

Variable	PIP
Vitamin B ₁	0.392
Vitamin B ₂	0.946
Niacin	0.364
Vitamin B ₆	0.294
Total folate	0.138
Vitamin B ₁₂	0.938

This model adjusted for all covariates. PIP, Posterior Inclusion Probability. BKMR, Bayesian Kernel Machine Regression. OA, Osteoarthritis.

Supplementary Table 2 The combined effect of B-complex vitamins on prevalence of osteoarthritis by WQS model and Qgcomp model.

Model	OR(95%CI)	P
WQS model	1.26(1.14-1.39)	0.001
Qgcomp model	1.19(1.10-1.30)	0.001

The model adjusted for all covariates. WQS, Weighted Quantile Sum. Qgcomp, Quantile g-computation. OR, Odds Ratio. CI, Confidence Interval. Qgcomp model : Quantile g-computation model.