



**Figure S1** Flow chart of the selection process.

**Table S1** Risk of metabolic syndrome according to the cholecystectomy status in the PS-matched

Cholecystectomy status	Odds ratio (95% confidence intervals)
Non-cholecystectomy	1 (reference)
Cholecystectomy	1.10 (1.04–1.18)

PS, propensity score.