



**Supplementary Material 5. Sensitivity analysis showing the relationship between gallstones and the BTC risk**

<sup>1</sup> Effect size of Lai et al. was calculated by pooling the results of DM group and non-DM group.

<sup>2</sup> Effect size of Lowenfels et al. was calculated by pooling the results of indian and non-indian group.

<sup>3</sup> OR (Odds ratio) and 95% CI (Confidence interval) refers to the summary estimate of effects in a random effects model if each one of the study is excluded.

<sup>4</sup> Summary risk estimate of effects in a random effects model where all the study is included

\*\* Pooled the results of two types BTC subsites.

\*\*\* Pooled the results of three types BTC subsites.