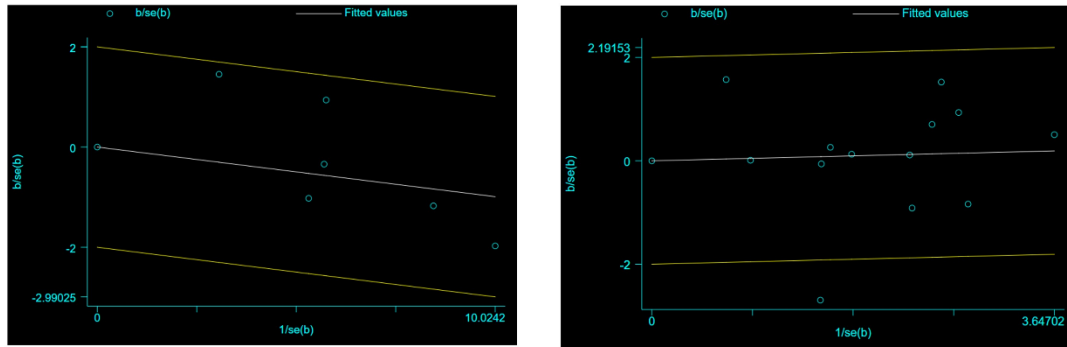


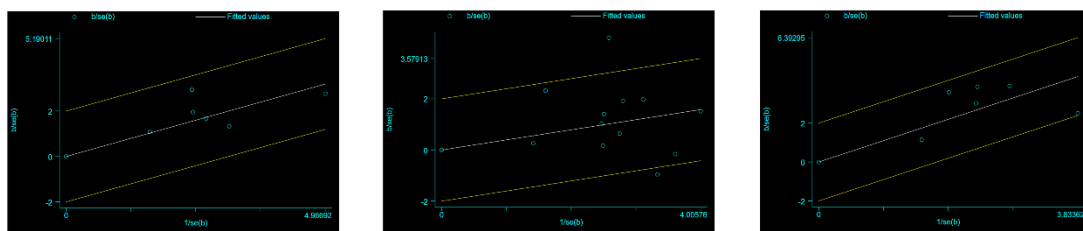
## Supplementary material



A: age

B: sex

**Supplementary Figure 1:** A, Galbraith plot of age. B, Galbraith plot of sex. The circles outside the two yellow lines represented studies with heterogeneity.

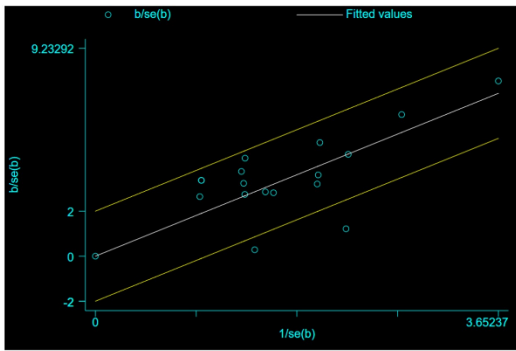


A: tumor size

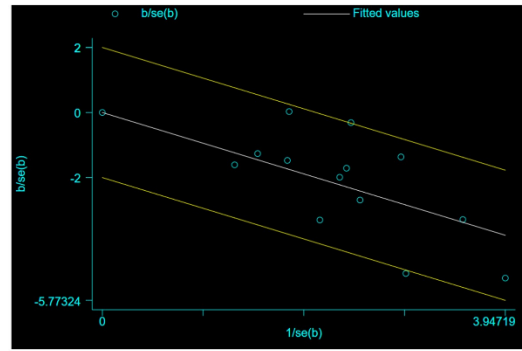
B: location

C: macroscopic type

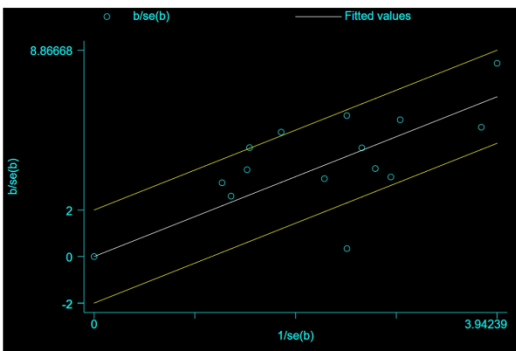
**Supplementary Figure 2:** A, Galbraith plot of tumor size. B, Galbraith plot of location. C, Galbraith plot of macroscopic type. The circles outside the two yellow lines represented studies with heterogeneity.



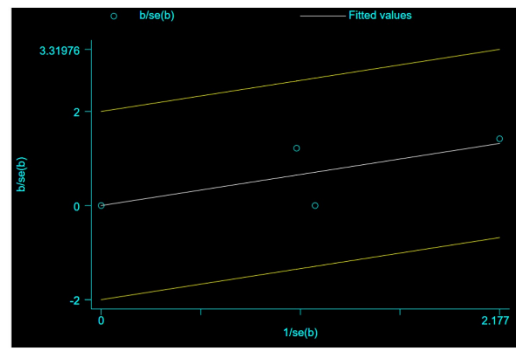
A: T1 sub stage



B: differentiation

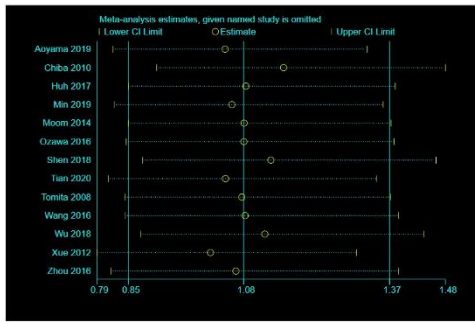


C: lymphovascular invasion

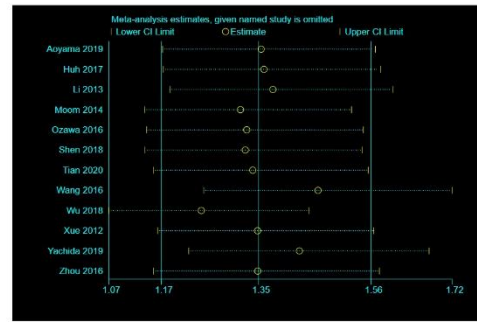


D: infiltrative growth pattern

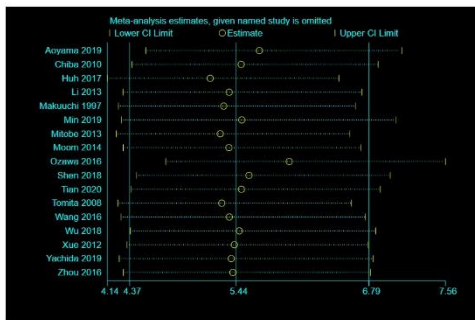
**Supplementary Figure 3:** A, Galbraith plot of T1 sub stage. B, Galbraith plot of differentiation. C, Galbraith plot of lymphovascular invasion. D, Galbraith plot of infiltrative growth pattern. The circles outside the two yellow lines represented studies with heterogeneity.



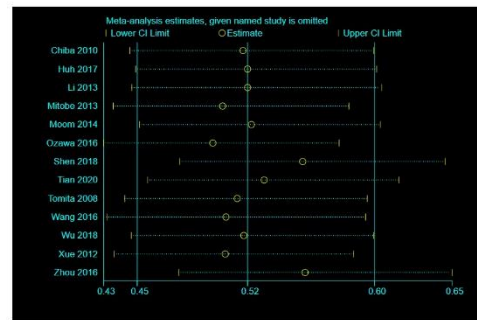
A: sex



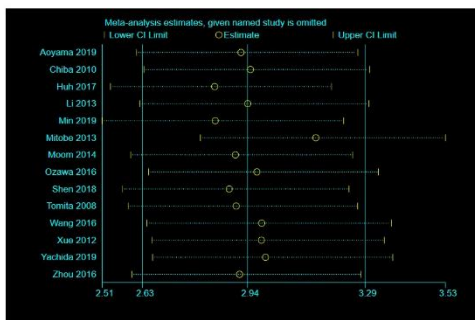
B: tumor location



C: T1 substage

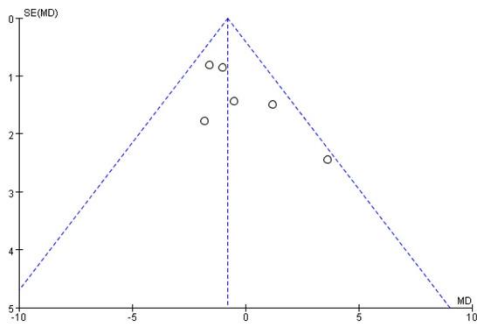


D: differentiation

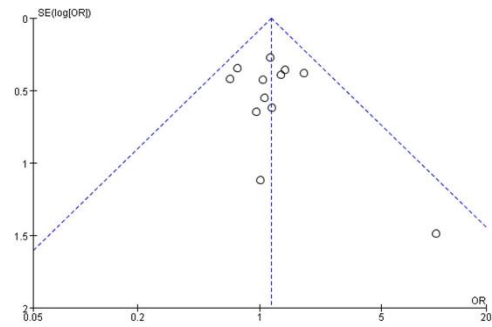


E: lymphovascular invasion

**Supplementary Figure 4:** A, Plot of influence analysis in sex. B, Plot of influence analysis in tumor location. C, Plot of influence analysis in T1 substage. D, Plot of influence analysis in differentiation. E, Plot of influence analysis in lymphovascular invasion. The farther the circle was from the midline, the more heterogeneous the study was.

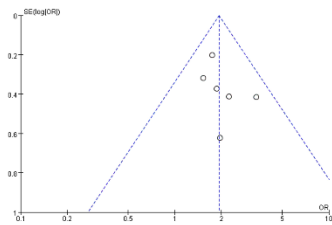


A: age

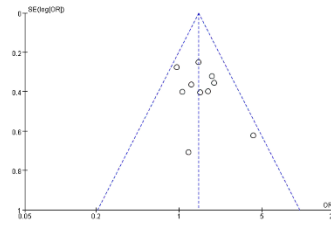


B: sex

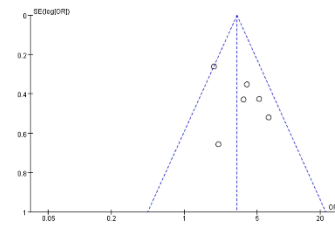
**Supplementary Figure 5:** A, Funnel plot of age. B, Funnel plot of sex. SE, Standard error; OR, odds ratio.



A: tumor size

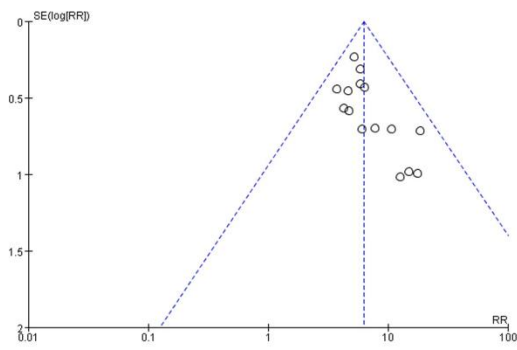


B: location

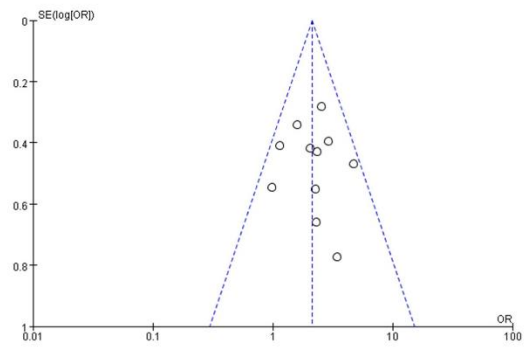


C: macroscopic type

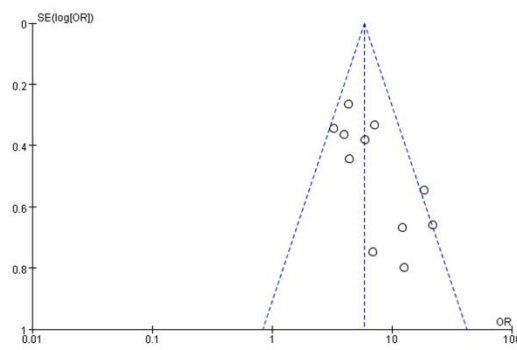
**Supplementary Figure 6:** A, Funnel plot of tumor size. B, Funnel plot of location. C, Funnel plot of macroscopic type. SE, Standard error; OR, odds ratio.



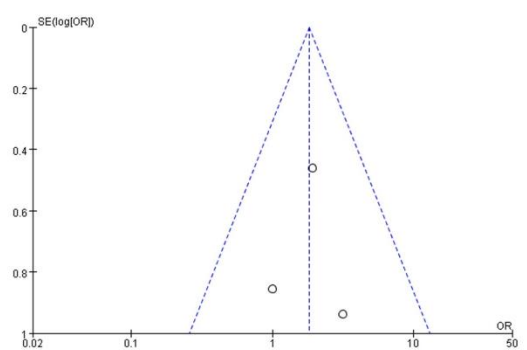
A: T1 sub stage



B: differentiation



C: lymphovascular invasion



D: infiltrative growth pattern

**Supplementary Figure 7:** A, Funnel plot of T1 substage. B, Funnel plot of differentiation. C, Funnel plot of lymphovascular invasion. D, Funnel plot infiltrative growth pattern. SE, Standard error; OR, odds ratio.