

Supplementary Table S2:List of excluded studies and exclusion reason.

Exclusion reason	Reference number
Title screening excluded:	
Not related to this study.	(1-12)
Not systematic review or meta analysis.	(12-20)
Abstract excluded:	
The subject was not related to biliary cancer or biliary diseases.	(21-23)
The full text cannot be found, and there are newly published studies on the same topic.	(24)
Risk of multiple tumors: There are other more detailed studies on the same subject.	(25-29)
Study on tumor prognosis.	(30)
Full text excluded:	
Study overlap: We chose to include updated and larger sample studies on the same topic.	(31-43)

Reference List

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