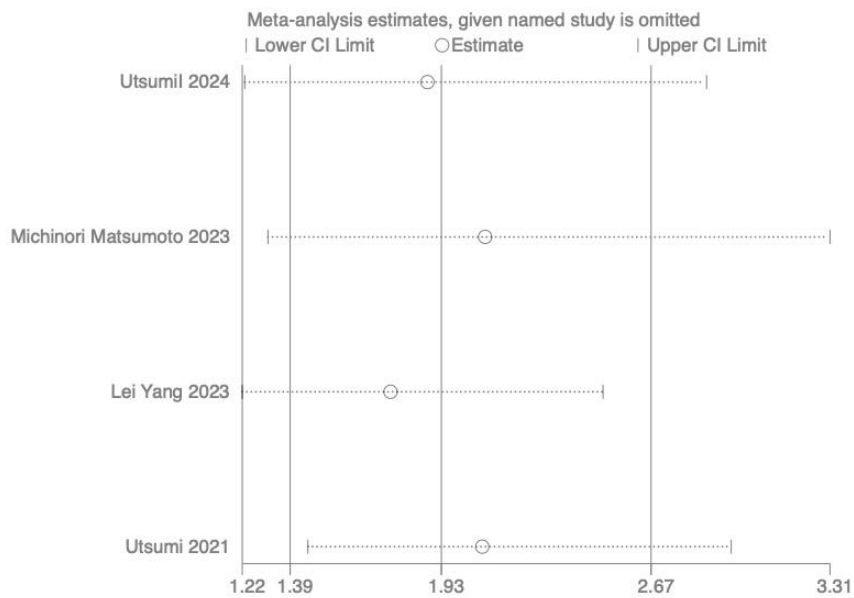
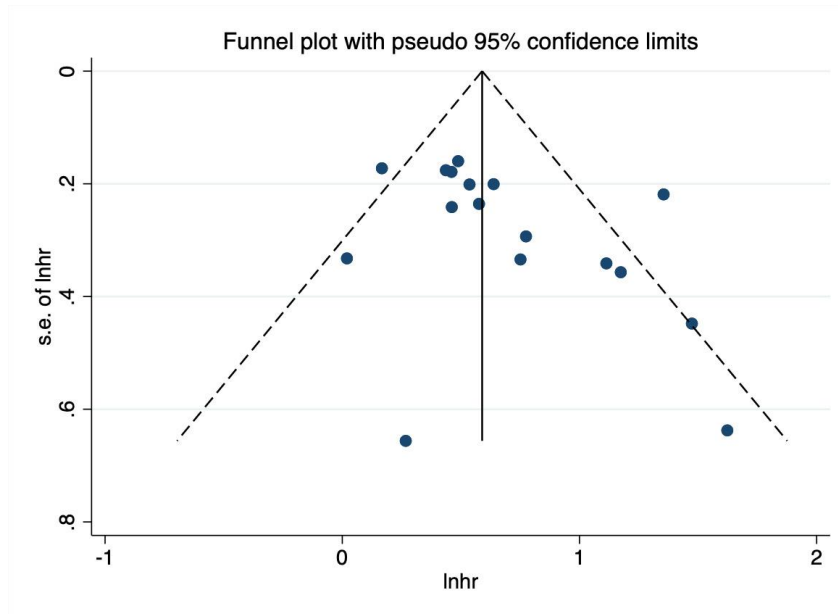


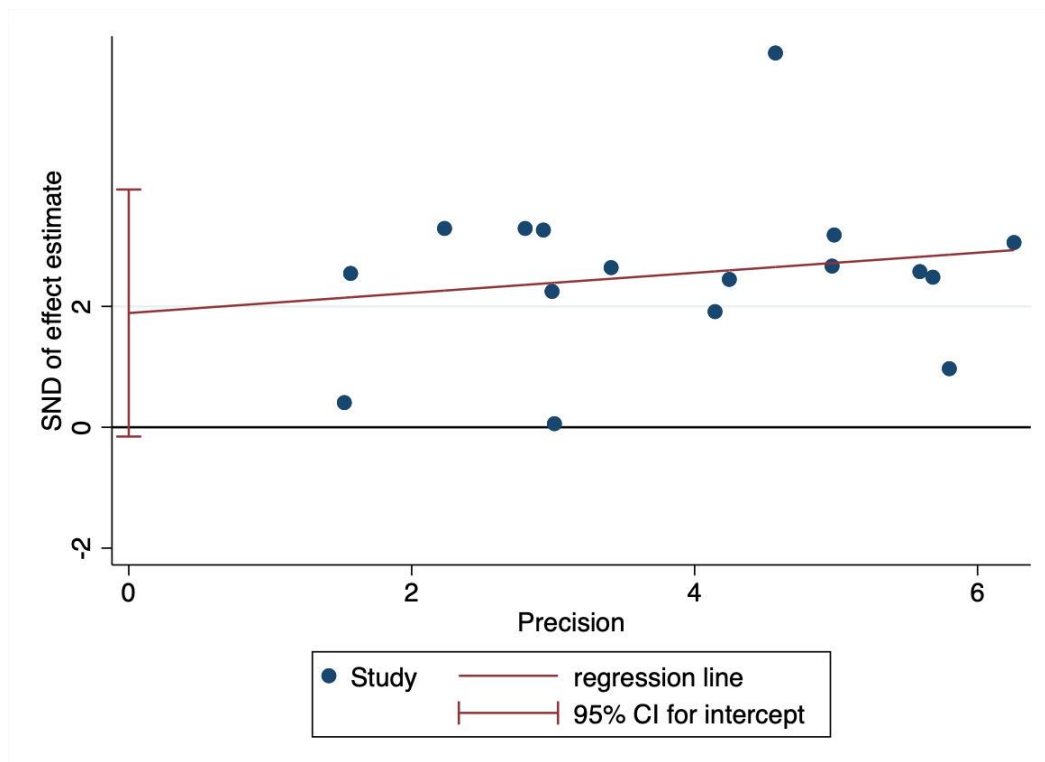
Supplementary Figure 1 Sensitivity analysis of the prognostic role of the PNI in overall survival (OS) among BTC patients, confirming the robustness of the results after excluding each study.



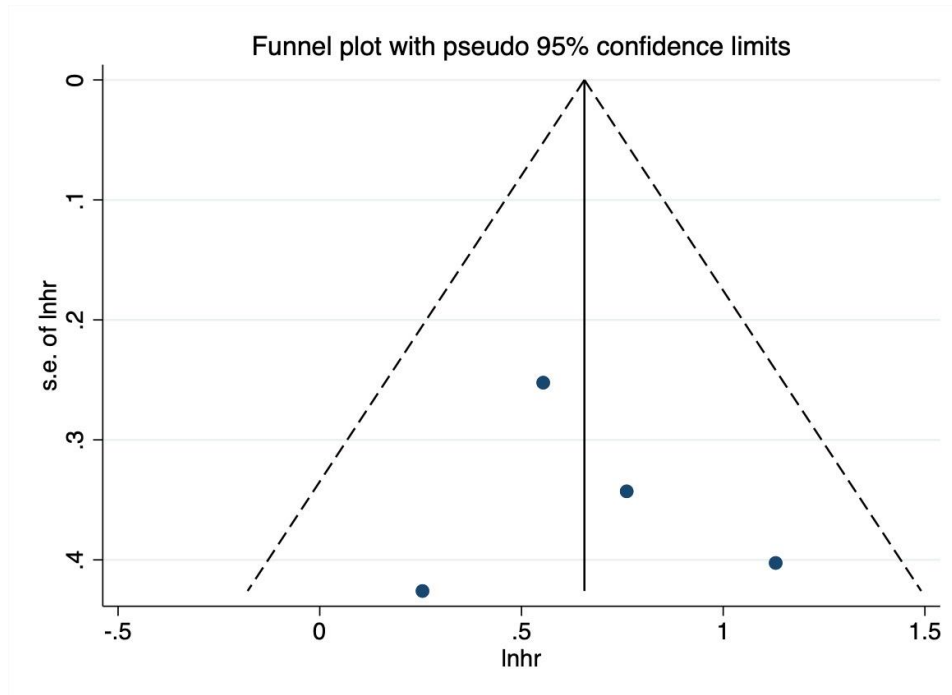
Supplementary Figure 2: Sensitivity analysis of the prognostic role of the PNI in disease-free survival (DFS) among BTC patients, confirming the robustness of the results after each study was excluded.



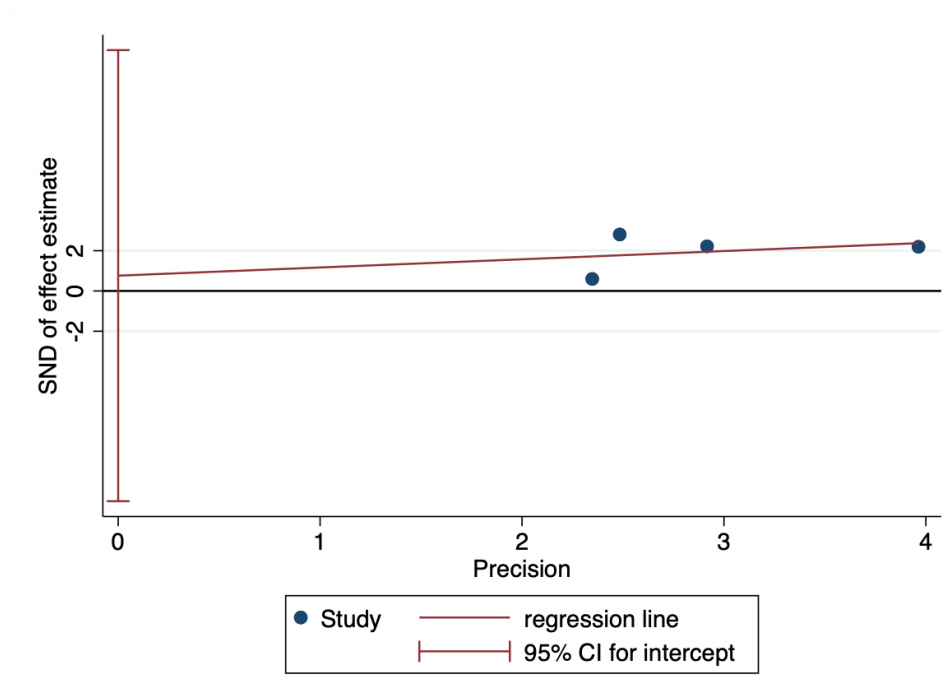
Supplementary Figure 3: Funnel plot assessing publication bias in studies of PNI and overall survival (OS), which revealed a low risk of publication bias.



Supplementary Figure 4: Egger's regression test indicating nonsignificant publication bias in studies of PNI and overall survival (OS), with a p value of 0.067.



Supplementary Figure 5: Funnel plot assessing publication bias in studies of PNI and disease-free survival (DFS), which revealed a low risk of publication bias.



Supplementary Figure 6: Egger's regression test indicating nonsignificant publication bias in studies of PNI and disease-free survival (DFS), with a p value of 0.798.