

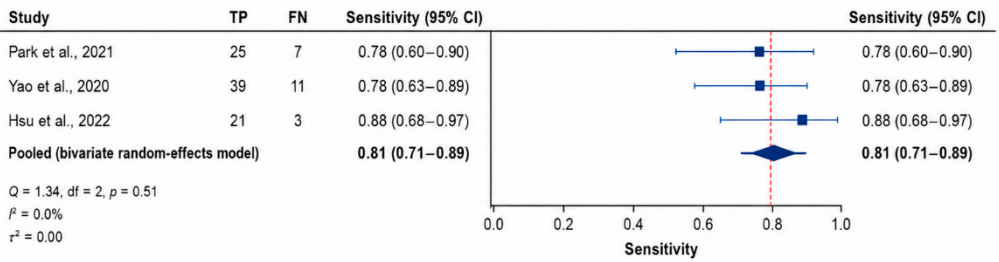
**Supplementary Table S2:** Risk of bias assessment

| Study       | Patient Selection | Index Test | Reference Standard | Flow & Timing | Applicability | Overall  |
|-------------|-------------------|------------|--------------------|---------------|---------------|----------|
| Costa 2020  | High              | Moderate   | Moderate           | High          | Moderate      | High     |
| Ganesh 2019 | Moderate          | Moderate   | Moderate           | Moderate      | Low           | Moderate |
| Hsu 2022    | Moderate          | Low        | Low                | Moderate      | Low           | Moderate |
| Mu 2025     | Moderate          | Moderate   | Moderate           | Moderate      | Moderate      | Moderate |
| Park 2021   | Moderate          | Moderate   | Low                | Moderate      | Moderate      | Moderate |
| Pasch 2019  | Moderate          | High       | Moderate           | Moderate      | High          | High     |
| Xu 2025     | Low               | Moderate   | Low                | Low           | Low           | Low      |
| Yao 2020    | Low               | Moderate   | Low                | Low           | Low           | Low      |

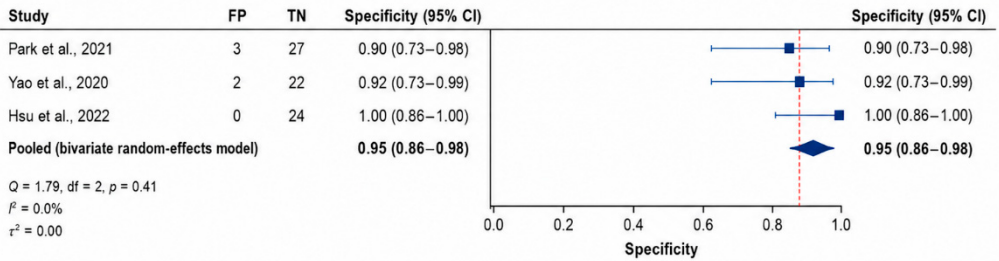
**Supplementary Table S3:** Contingency table used for HSROC analysis

| Study     | TP | FP | FN | TN | Method of derivation                                                |
|-----------|----|----|----|----|---------------------------------------------------------------------|
| Yao 2020  | 34 | 3  | 9  | 34 | Directly derived from published patient-level classifications       |
| Hsu 2022  | 5  | 1  | 0  | 7  | Derived from reported sensitivity, specificity and responder counts |
| Park 2021 | 3  | 1  | 0  | 15 | Approximate reconstruction from published classification metrics    |

Forest plot of sensitivity estimates.



Forest plot of specificity estimates.



TP = true positives; FN = false negatives; FP = false positives; TN = true negatives; CI = confidence interval.

Supplementary Figure S1: Sensitivity and Specificity Forest Plots.