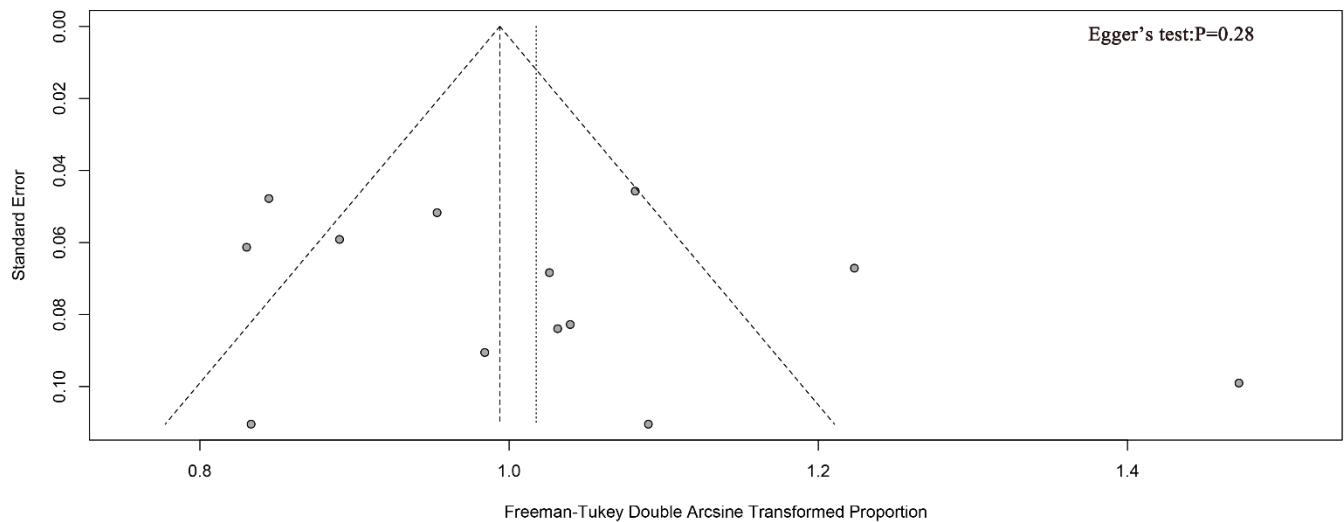
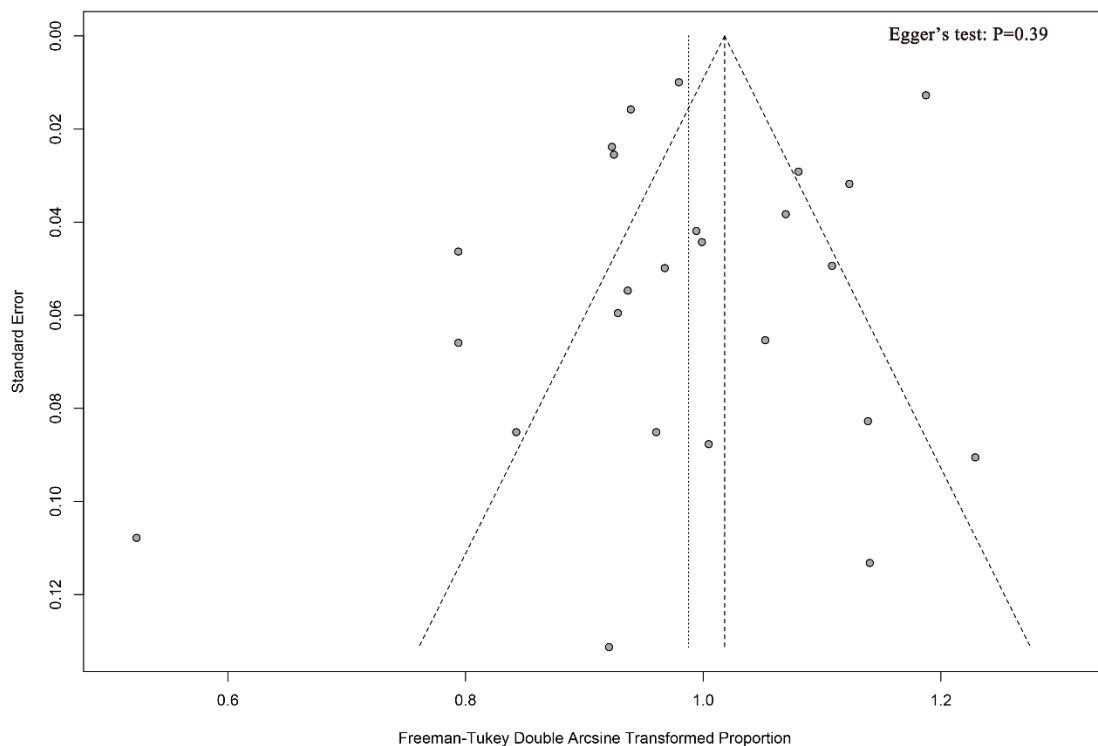


Supplementary Figure 1 Publication bias was evaluated for 68Ga-PSMA-11 PET/CT using Deek's funnel plot. A significance level of  $P < 0.05$  was used to define statistical significance.



Supplementary Figure 2 Publication bias was evaluated for 68Ga-PSMA-11 PET/MRI using Deek's funnel plot. A significance level of  $P < 0.05$  was used to define statistical significance.



Supplementary Table 1 Sensitivity analysis of  $^{68}\text{Ga}$ -PSMA-11 PET/MRI for biochemically recurrent prostate cancer

|                             | $^{68}\text{Ga}$ -PSMA-11 PET/MRI |                |
|-----------------------------|-----------------------------------|----------------|
|                             | Positivity rate (95% CI)          | I <sup>2</sup> |
| Omitting Glemser et al.     | 0.73 [0.63,0.82]                  | 82.40%         |
| Omitting Afshar et al.      | 0.72 [0.63,0.81]                  | 82.30%         |
| Omitting Grubmüller et al.  | 0.74 [0.65, 0.82]                 | 81.50%         |
| Omitting Guberina et al.    | 0.74 [0.64, 0.82]                 | 82.30%         |
| Omitting Mai et al.         | 0.74 [0.65,0.82]                  | 81.90%         |
| Omitting Joshi et al.       | 0.73 [0.64,0.82]                  | 82.50%         |
| Omitting T. Lake et al.     | 0.71 [0.62, 0.79]                 | 78.10%         |
| Omitting Kranzbühler et al. | 0.74 [0.66,0.82]                  | 80.00%         |
| Omitting Lütje et al.       | 0.70 [0.63, 0.76]                 | 71.60%         |
| Omitting Mapelli et al.     | 0.73 [0.63, 0.82]                 | 82.40%         |
| Omitting Martinez et al.    | 0.74 [0.66, 0.83]                 | 78.60%         |
| Omitting Alonso et al.      | 0.73 [0.63, 0.81]                 | 82.40%         |
| Omitting Freitag et al.     | 0.72 [0.63, 0.81]                 | 81.20%         |

Supplementary Table 2 Sensitivity analysis of  $^{68}\text{Ga}$ -PSMA-11 PET/CT for biochemically recurrent prostate cancer.

|                                  | $^{68}\text{Ga}$ -PSMA-11 PET/CT |                |
|----------------------------------|----------------------------------|----------------|
|                                  | Positivity rate (95% CI)         | I <sup>2</sup> |
| Omitting Gühne et al. 2022       | 0.70 [0.65; 0.75]                | 93.20%         |
| Omitting Duan et al. 2022        | 0.70 [0.65; 0.75]                | 93.30%         |
| Omitting Uprimny et al. 2021     | 0.70 [0.65; 0.75]                | 92.90%         |
| Omitting Lengana et al. 2021     | 0.71 [0.67; 0.75]                | 92.90%         |
| Omitting Plaza López et al. 2021 | 0.70 [0.65; 0.75]                | 93.30%         |
| Omitting Yuminaga et al. 2021    | 0.70 [0.65; 0.75]                | 93.00%         |
| Omitting Tseng et al. 2021       | 0.70 [0.65; 0.75]                | 93.30%         |
| Omitting Strauss et al. 2021     | 0.70 [0.65; 0.75]                | 93.30%         |
| Omitting Ribeiro et al. 2021     | 0.71 [0.66; 0.75]                | 93.10%         |
| Omitting Morawitz et al. 2021    | 0.71 [0.65; 0.74]                | 93.20%         |
| Omitting Lawal et al. 2021       | 0.69 [0.64; 0.74]                | 93.10%         |
| Omitting Kroenke et al. 2021     | 0.70 [0.65; 0.75]                | 93.30%         |
| Omitting Jentjens et al. 2021    | 0.70 [0.66; 0.75]                | 93.20%         |
| Omitting Fourquet et al. 2021    | 0.70 [0.65; 0.74]                | 93.20%         |
| Omitting Dadgar et al. 2021      | 0.70 [0.65; 0.74]                | 93.30%         |
| Omitting Cerci et al. 2021       | 0.70 [0.65; 0.75]                | 92.70%         |

---

|                                        |                   |        |
|----------------------------------------|-------------------|--------|
| Omitting Carvalho et al. 2021          | 0.70 [0.65; 0.75] | 93.20% |
| Omitting Afshar-Oromieh et al.<br>2021 | 0.70 [0.65; 0.75] | 92.80% |
| Omitting Seniaray et al. 2020          | 0.70 [0.65; 0.75] | 93.30% |
| Omitting Regula et al. 2020            | 0.69 [0.65; 0.74] | 93.20% |
| Omitting Rauscher et al. 2020          | 0.70 [0.65; 0.74] | 93.20% |
| Omitting Radzina et al. 2020           | 0.70 [0.65; 0.75] | 93.30% |
| Omitting Miksch et al. 2020            | 0.71 [0.66; 0.75] | 92.80% |
| Omitting Huits et al. 2020             | 0.70 [0.65; 0.75] | 93.30% |
| Omitting Abghari-Gerst et al. 2021     | 0.69 [0.64; 0.74] | 81.20% |

---

