# Adherence to Endocrine Therapies Among Women with Non-Metastatic Breast Cancer in Developing Countries

UNIVERSITY OF GEORGIA

**College of Pharmacy** 

Elshafie S<sup>1</sup>, Trivedi R<sup>1</sup>, Villa Zapata L<sup>1</sup>, Tackett RL<sup>1</sup>, Zaghloul I<sup>2</sup>, Young HN<sup>1</sup>

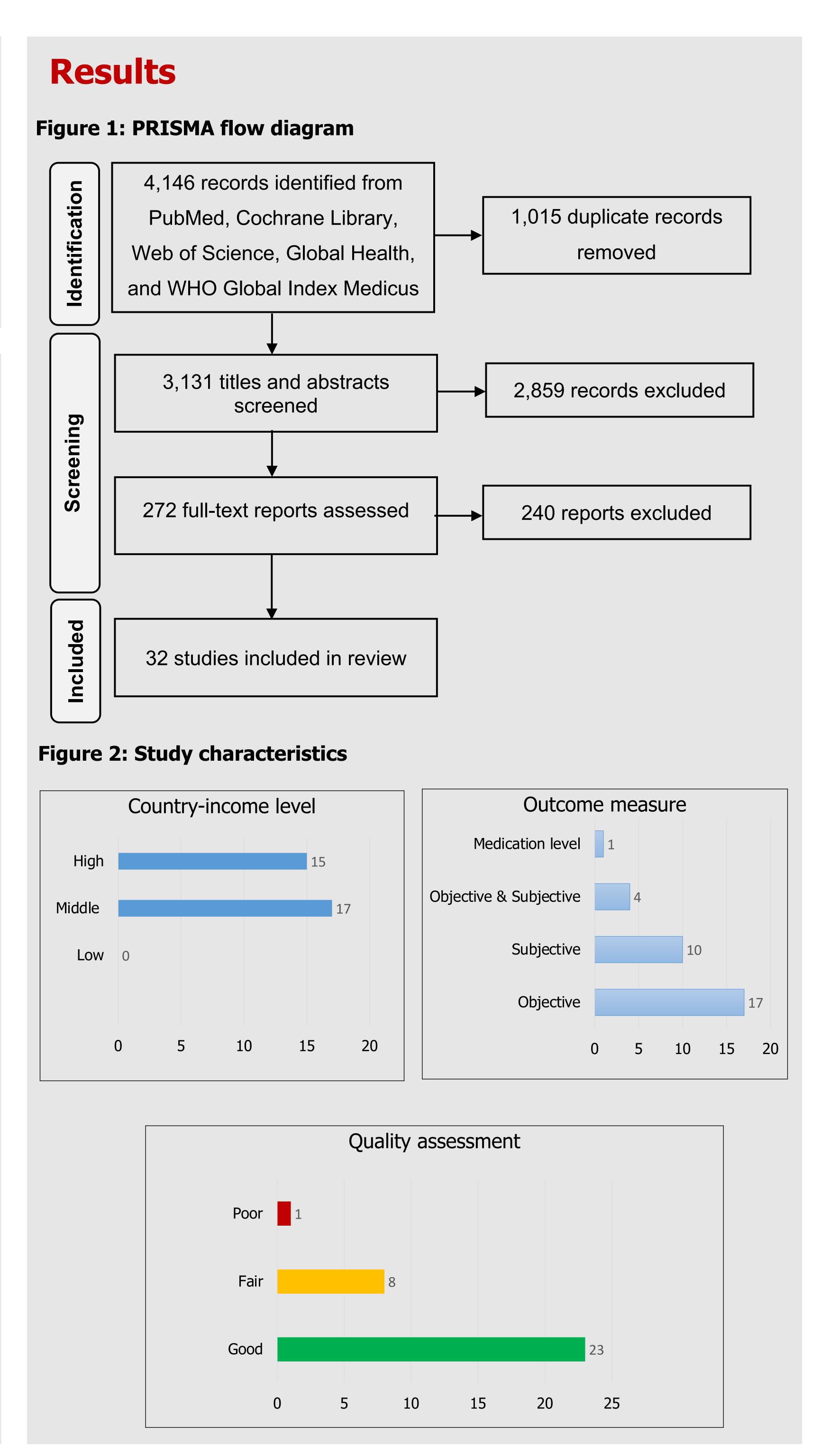
¹College of Pharmacy, University of Georgia, Athens, GA, USA ²School of Pharmacy, MCPHS University, Boston, MA, USA

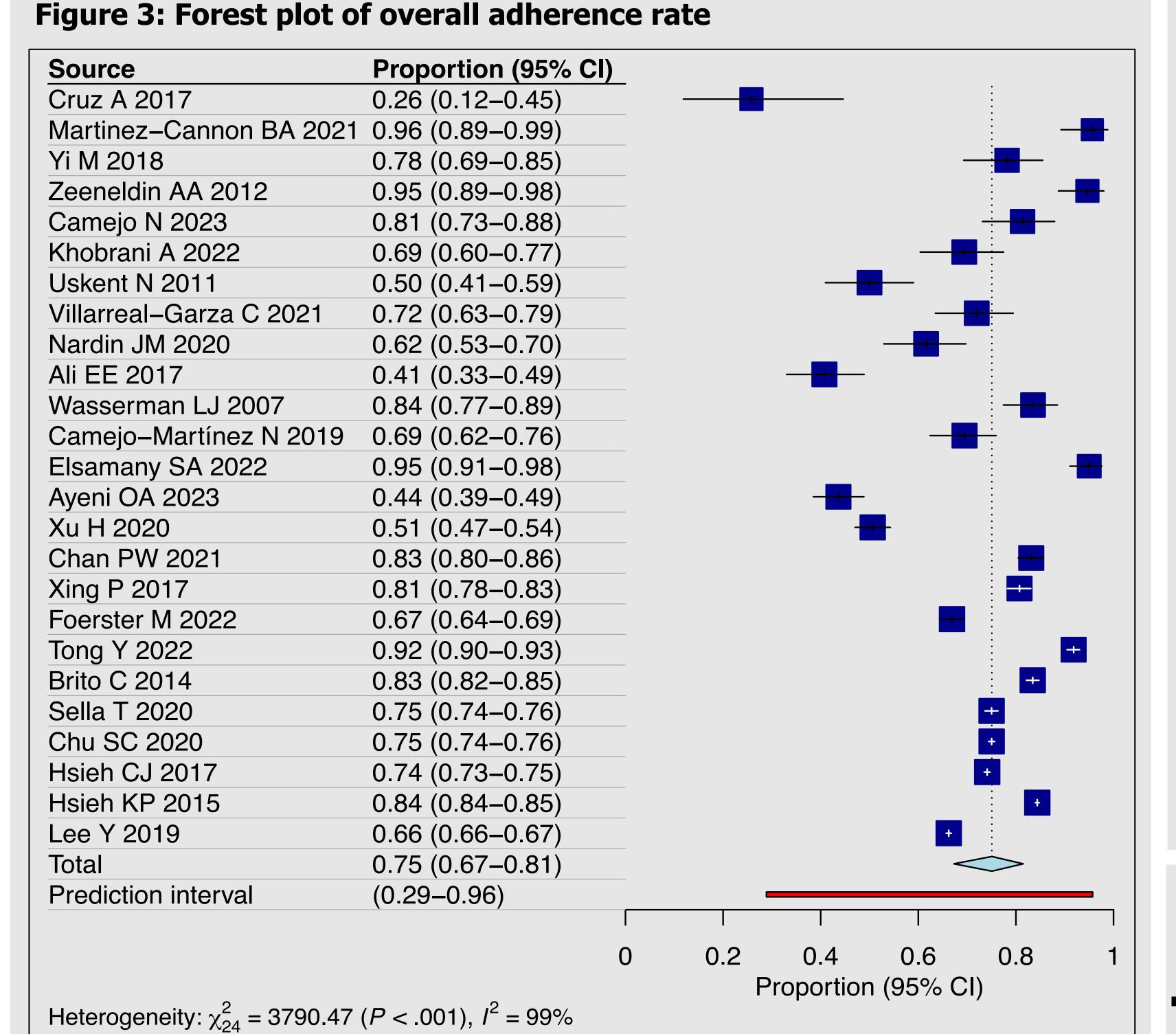
## Objectives

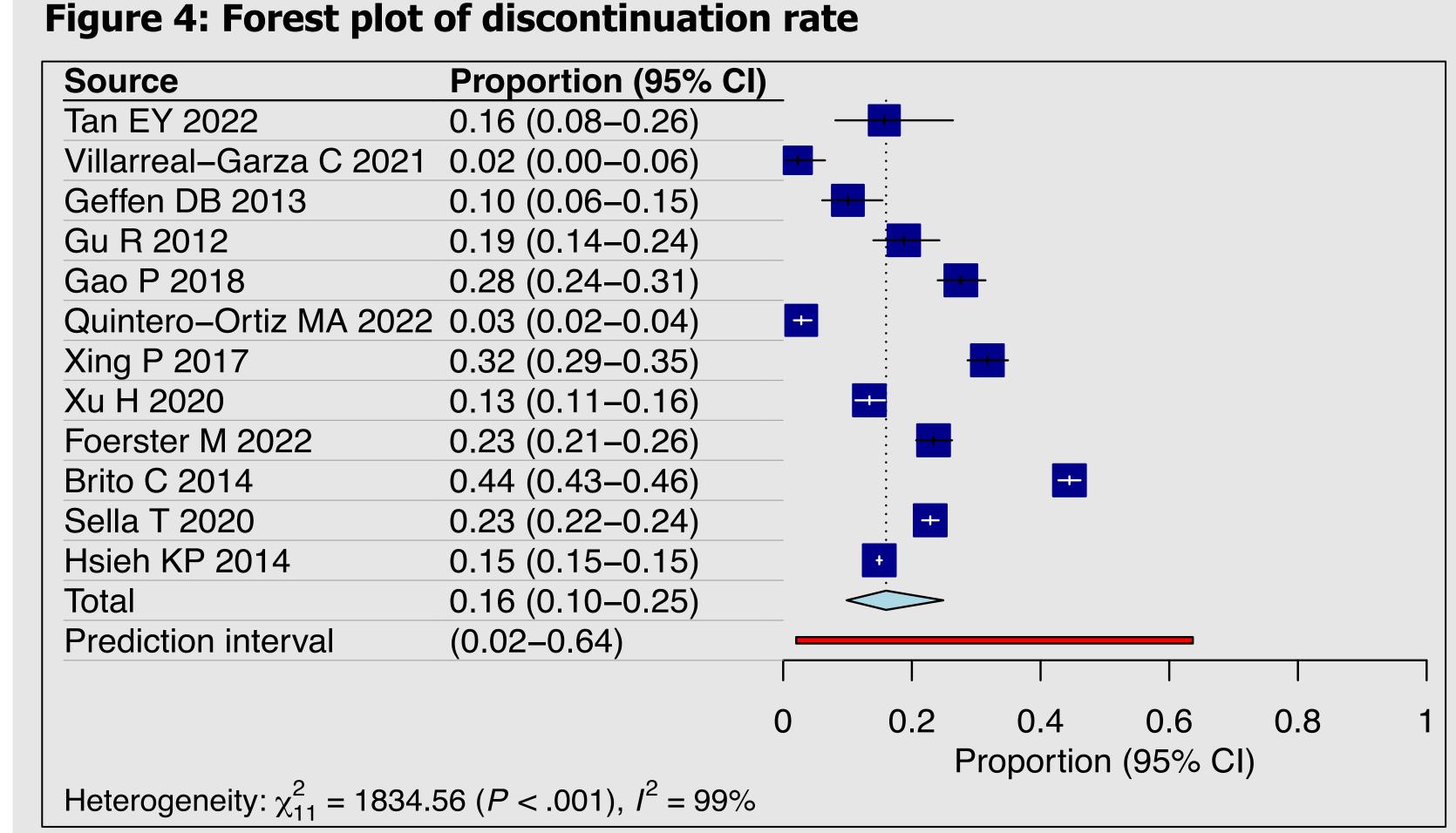
This systematic review and meta-analysis evaluated utilization of endocrine therapies among women with non-metastatic breast cancer in developing countries.

#### Methods

- Literature search:
   conducted through August
   2023 in five databases
   (PubMed, Cochrane
   Library, Web of Science,
   Global Health, and WHO
   Global Index Medicus)
- Inclusion criteria: peerreviewed observational studies (real-world research) reporting usage rate of endocrine therapy regimens (tamoxifen, anastrozole, letrozole or exemestane)
- Screening and data extraction was conducted by two researchers independently
- Quality assessment: by Joanna Briggs Institute (JBI) critical appraisal checklists
- Data synthesis: used a random effects model and plotted as proportions of women who were adherent or discontinued treatment with the corresponding 95% confidence intervals







Intervals within which the effect size of a new study would fall if this study was selected at random from the same population of the studies already included in the meta-analysis (prediction intervals ):

- Non-adherence: 4% to 71%
- Discontinuation: 2% to 64%

#### Conclusion

- The findings underscore the widespread issue of inadequate adherence to endocrine therapies in developing countries.
- Given the constrained resources and significant mortality rates from breast cancer in these regions, there is a pressing need for strategies specifically designed to improve adherence practices.

### References

- Joanna Briggs Institute. The JBI Critical Appraisal tools. https://jbi.global/critical-appraisaltools
- Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ. 2021;372. doi:10.1136/bmj.n71
- Sung H, Ferlay J, Siegel RL, et al. Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. CA Cancer J Clin. 2021;71(3):209-249. doi:10.3322/caac.21660

