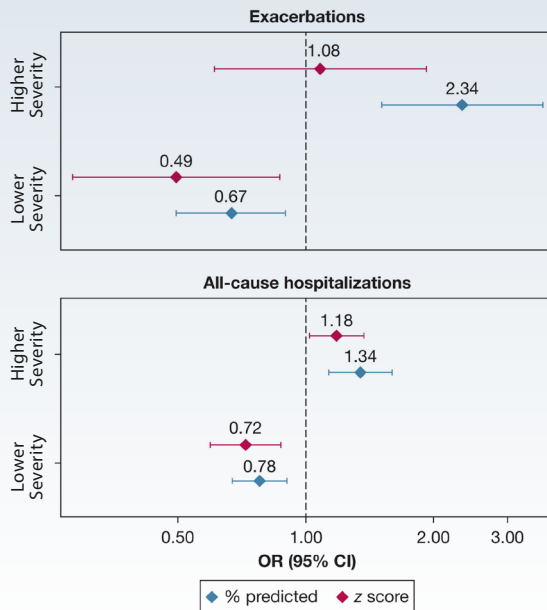


How Does the Transition From Race-Specific to Race-Neutral Equations Impact Severity Classifications in COPD?

STUDY DESIGN

- Retrospective study of 13,324 patients with COPD or $FEV_1/FVC < 0.70$
 - 69.3% were White
 - 30.7% were Black
- Examined associations between a change in severity classification to COPD exacerbations and all-cause hospitalizations after changing from race-specific to race-neutral reference equations.

RESULTS



- More Black than White patients had a **change in severity classification** when using % predicted thresholds (20.2% vs 6.1%) but not with z score thresholds (12.6% vs 12.3%)
- **Increased severity** classification was associated with increased risk of exacerbation when using z score thresholds but not when using % predicted thresholds
- **Decreased severity** classification was associated with lower risk of exacerbation with both % predicted and z score thresholds

This study showed that use of the recently recommended race-neutral reference equations and z score-based severity thresholds seems to reclassify COPD disease severity accurately among a similar proportion of White and Black patients.