

# Does the Use of a Race-Based Spirometry Equation Lead to Longer Waitlist Times for Black Patients Awaiting Lung Transplant?

## STUDY DESIGN

- Retrospective analysis of 33,845 patients listed for lung transplant from 2005 to 2020
- Publicly available data from the **United Network for Organ Sharing** used
- **Lung allocation scores** for **Black patients** were **recalculated** using White-specific equations with available variables

## RESULTS

### Prior to recalculation **WHITE PATIENTS**



- Lung allocation scores were lower
- Proportion undergoing transplantation was higher
- Morality rates on the waitlist were lower

### When accounting for recalculated lung allocation scores



### **BLACK PATIENTS**

- Overall, had an additional 3.5 days on the waitlist (4% longer)
- Those in the high transplant priority group had an additional 18.1 days on the waitlist (21% longer)

Race-specific equations led to longer wait times in Black patients listed for lung transplant. The use of race-based equations widened already known disparities in pulmonary transplantation.