#### SLEEP

# What Are the Underlying Mechanisms of Reduced Exercise Capacity in Untreated Patients With OSA?



## STUDY DESIGN

- Cross-sectional matched observational study
- Underwent spirometry, cardiopulmonary exercise testing with arterial line, resting echocardiography, and assessment of arterial stiffness

### 14 patients with moderate to severe OSA vs

10 control participants

## **During Rest**

• OSAHS

° Increased peripheral arterial stiffness



## RESULTS

## **During Exercise**

• OSAHS



Patients with OSAHS showed evidence of pulmonary gas exchange abnormalities during exercise and resting systemic vascular

dysfunction that may explain reduced exercise capacity and increased exertional dyspnea intensity.

Elbehairy AF, et al. CHEST January 2022 | @journal\_CHEST | https://doi.org/10.1016/j.chest.2022.09.027

Copyright  $\circledast$  2022 American College of Chest Physicians