

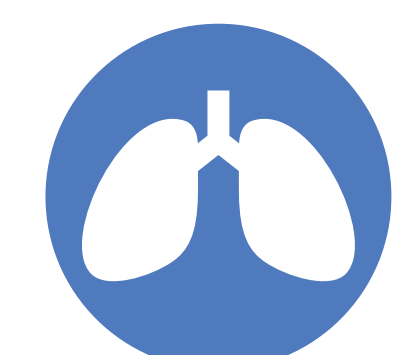
## BACKGROUND

Chronic obstructive pulmonary disease (COPD) affects approximately 30 million people in the US and is projected to be the third leading cause of disability and death worldwide by 2030. The burden of COPD is expected to increase due to continued exposure to risk factors and aging of the population. Current management recommendations emphasize the need for personalized treatment plans to reduce symptoms and frequency of exacerbations and improve patient quality of life. However, many clinicians do not apply recommended protocols in their assessment and management of COPD. Specifically, many do not appropriately utilize inhaler triple therapy, and those who do may not be adequately evaluating treatment response and whether other more-targeted therapies would better attenuate the exacerbation burden. Many also lack sufficient knowledge about new research on the pathophysiology of COPD, the role of eosinophilic inflammation, and the potential of emerging targeted therapies.



## METHODS

- To address these gaps, an online CME intervention was developed featuring a 30-minute video lecture with whiteboard animation led by a leading expert in COPD.
- Learners completed a pre- and post-education assessment with 3 multiple choice questions to assess knowledge and one 5-point Likert scale question to assess confidence.
- Using a repeated pairs design, pre-/post-education responses were compared and a McNemar's test was used to assess statistical significance ( $P < .05$ ).
- The activity was launched on 3/13/24, and data were collected through 9/14/24.



**Pulmonologists**  
(n = 98)

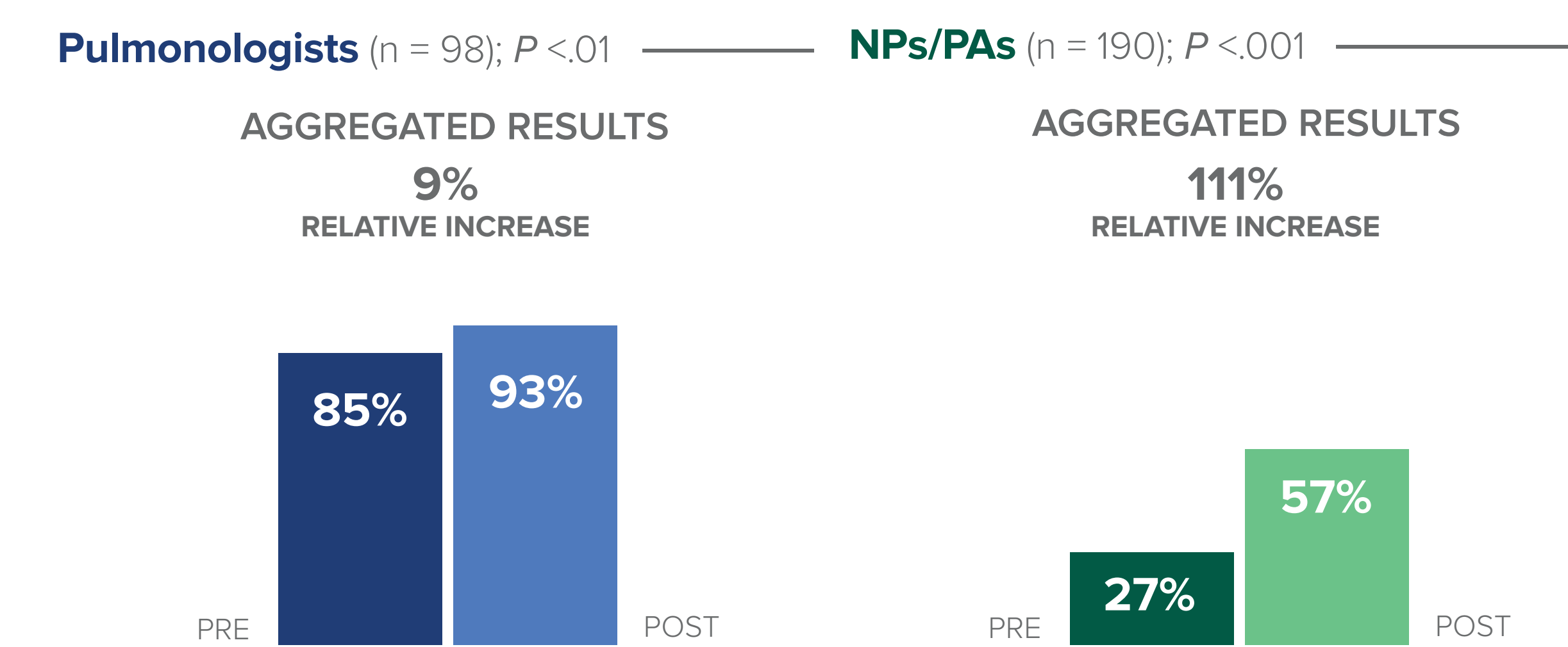


**Pulmonology Nurse Practitioners and Physician Assistants (NPs/PAs)**  
(n = 190)

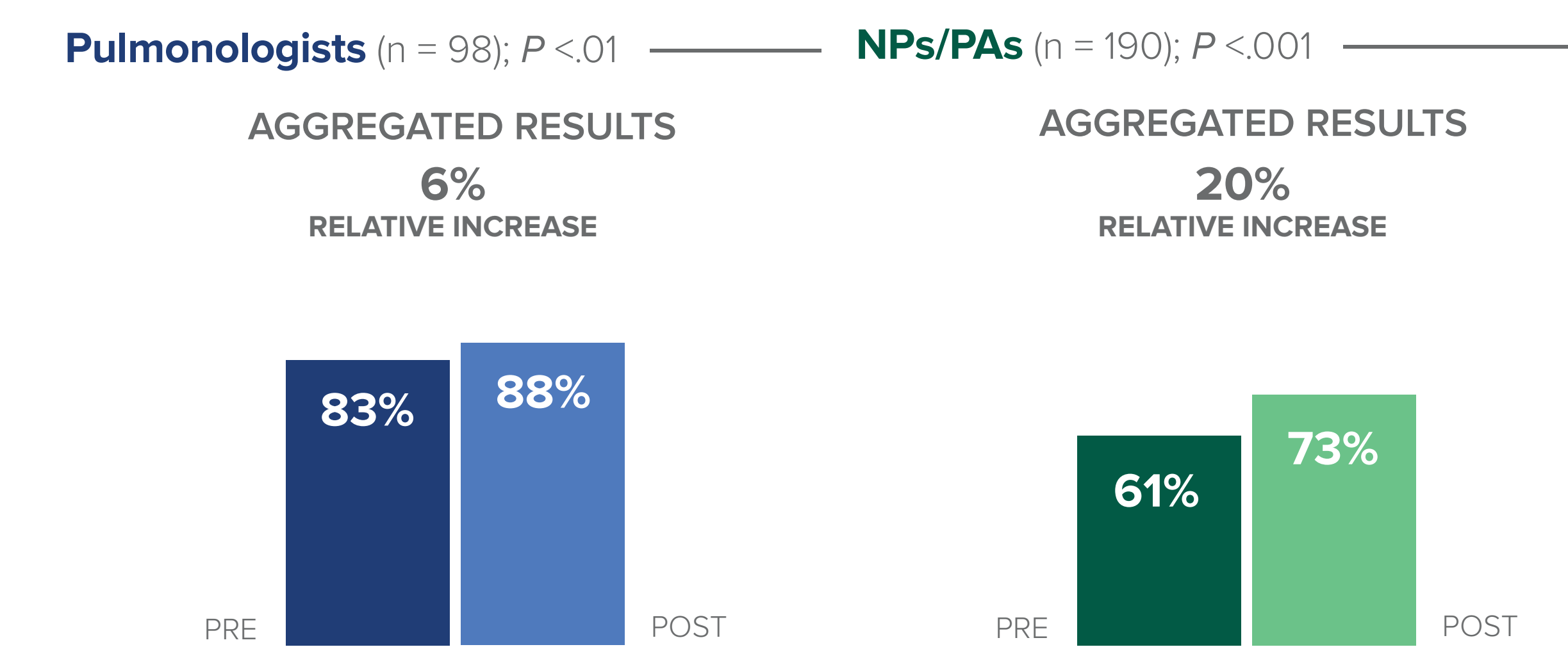


## RESULTS

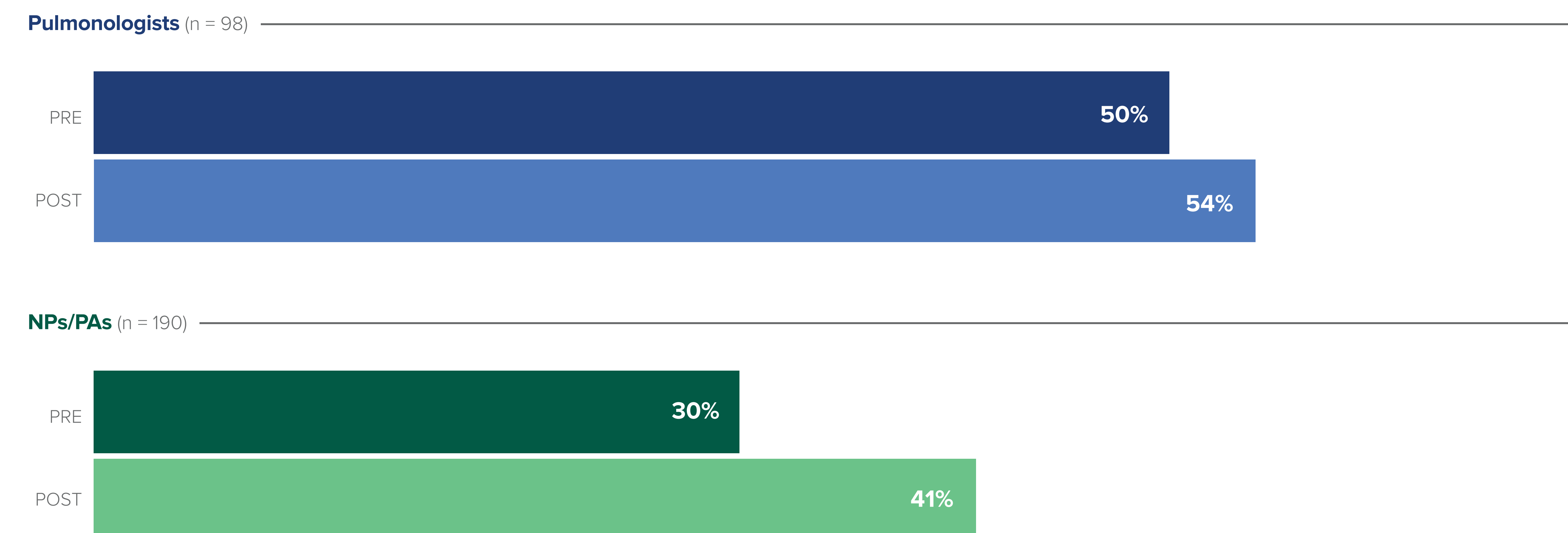
### KNOWLEDGE REGARDING THE UNDERLYING PATHOGENETIC PATHWAYS IN COPD



### KNOWLEDGE REGARDING EMERGING TREATMENTS FOR COPD



### % WHO FELT CONFIDENT MANAGING PATIENTS WITH COPD



## CONCLUSIONS

This analysis shows the success of online CME video lecture with whiteboard animation in improving the knowledge and confidence of pulmonology specialists related to COPD management. Additional education is needed for NPs and PAs, to further increase knowledge and confidence related to the pathophysiology of COPD and emerging treatment strategies.

### ACKNOWLEDGEMENTS

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