

Pulmonary Arterial Hypertension Gameshow Improves Physician Knowledge and Competencies

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Presented at ATS (The American Thoracic Society) 2025, 16-21 May 2025; Poster #4307

BACKGROUND

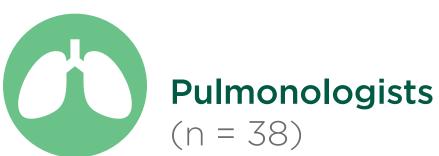
We sought to determine if online continuing medical education (CME) delivered in an interactive gameshow format could improve the knowledge, competence and confidence of pulmonologists and cardiologists related to the identification and management of pulmonary arterial hypertension (PAH).



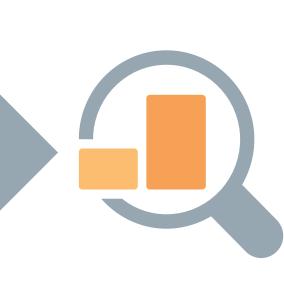
METHODS

This CME intervention comprised of a 60-minute enduring online video-based program with 3 expert faculty, originally broadcast live in-person and online at the 2024 American Thoracic Society (ATS) International annual meeting, as a gameshow with interspersed faculty commentary. Educational effect was assessed using a repeated-pair design with pre-/post-assessment. Three multiple choice questions assessed knowledge and competence, and 1, rated on a Likert-type scale, assessed confidence. A paired samples t-test was conducted on overall average number of correct responses and for confidence rating, and a McNemar's test was conducted at the question level (significance level, P < .05). The enduring activity launched June 18, 2024 and data were collected through September 9, 2024.









answers at least one more

answers the same number of juestions correctly pre/post

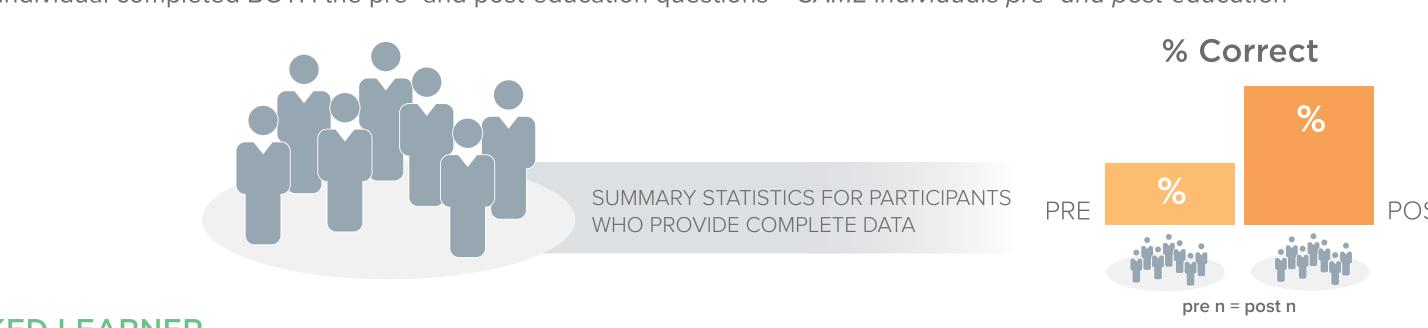
question correctly

INFORCED

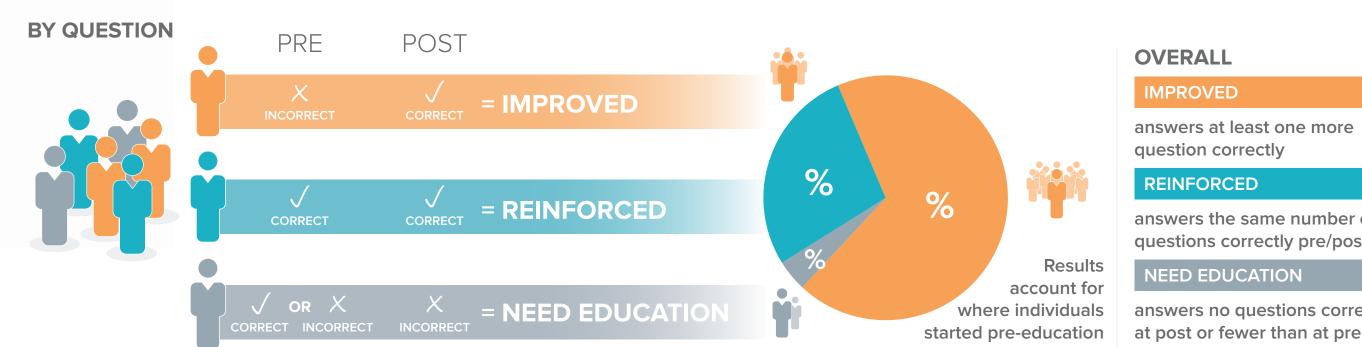
How to Read the Linked Learner Assessment

OUTCOMES COMPLETERS

Each individual completed BOTH the pre- and post-education questions — SAME individuals pre- and post-education



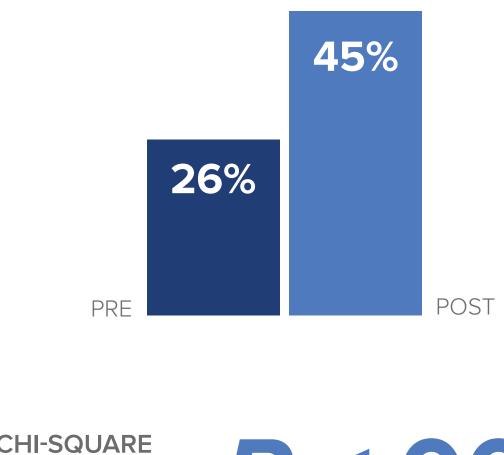
LINKED LEARNER Each individual tracked pre- and post-education — Learners serve as their own controls



RESULTS

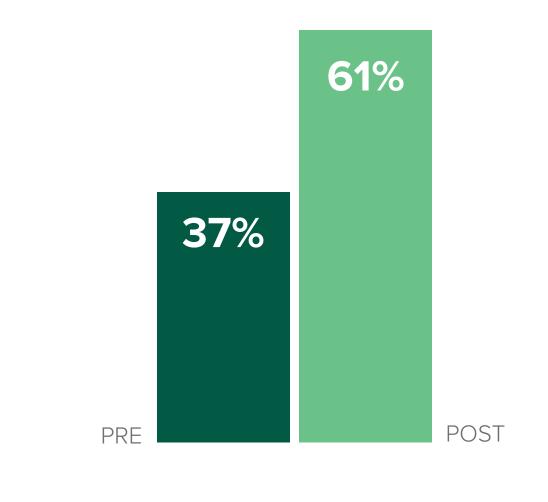
OVERALL

Cardiologists (n = 81) AGGREGATED RESULTS





Pulmonologists (n = 38) AGGREGATED RESULTS

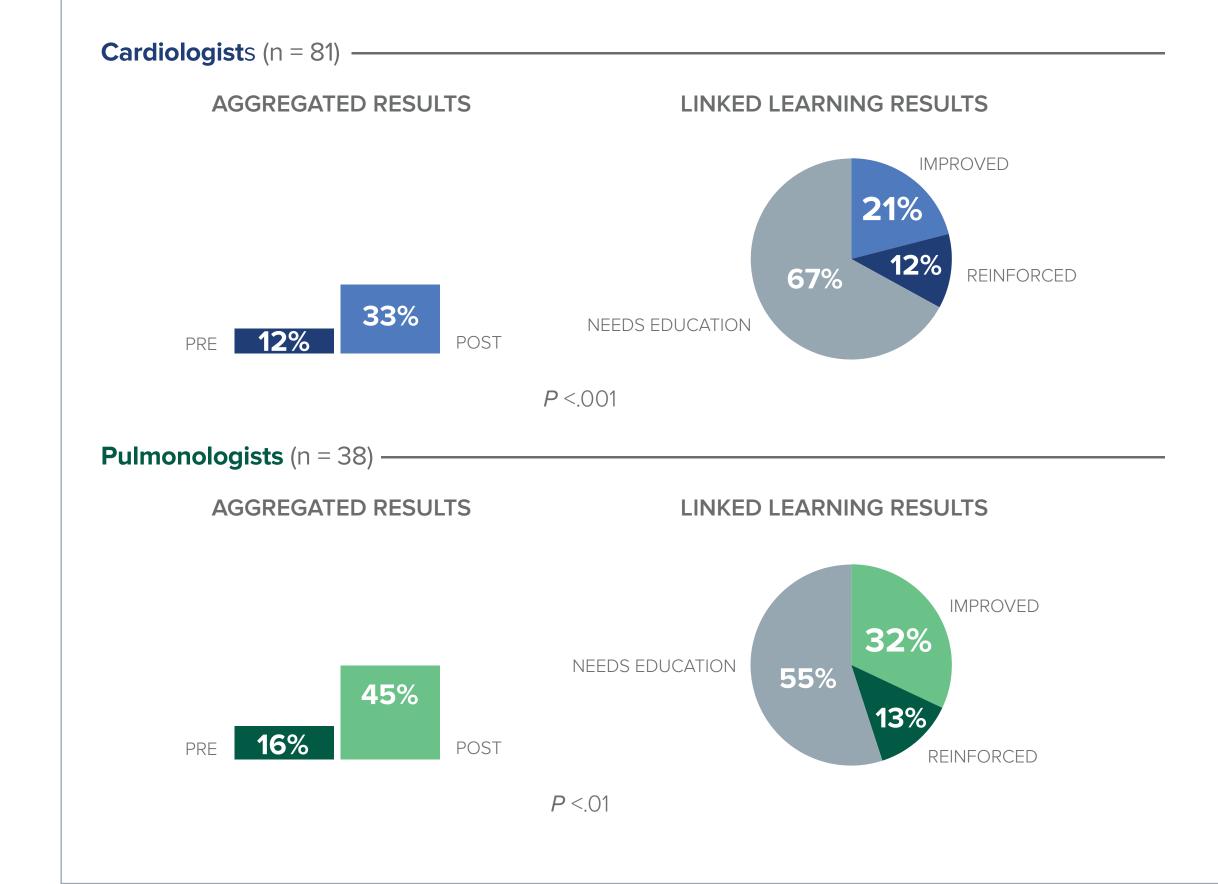




QUESTION 1 RESULTS

Improvement in knowledge of evaluation and risk stratification

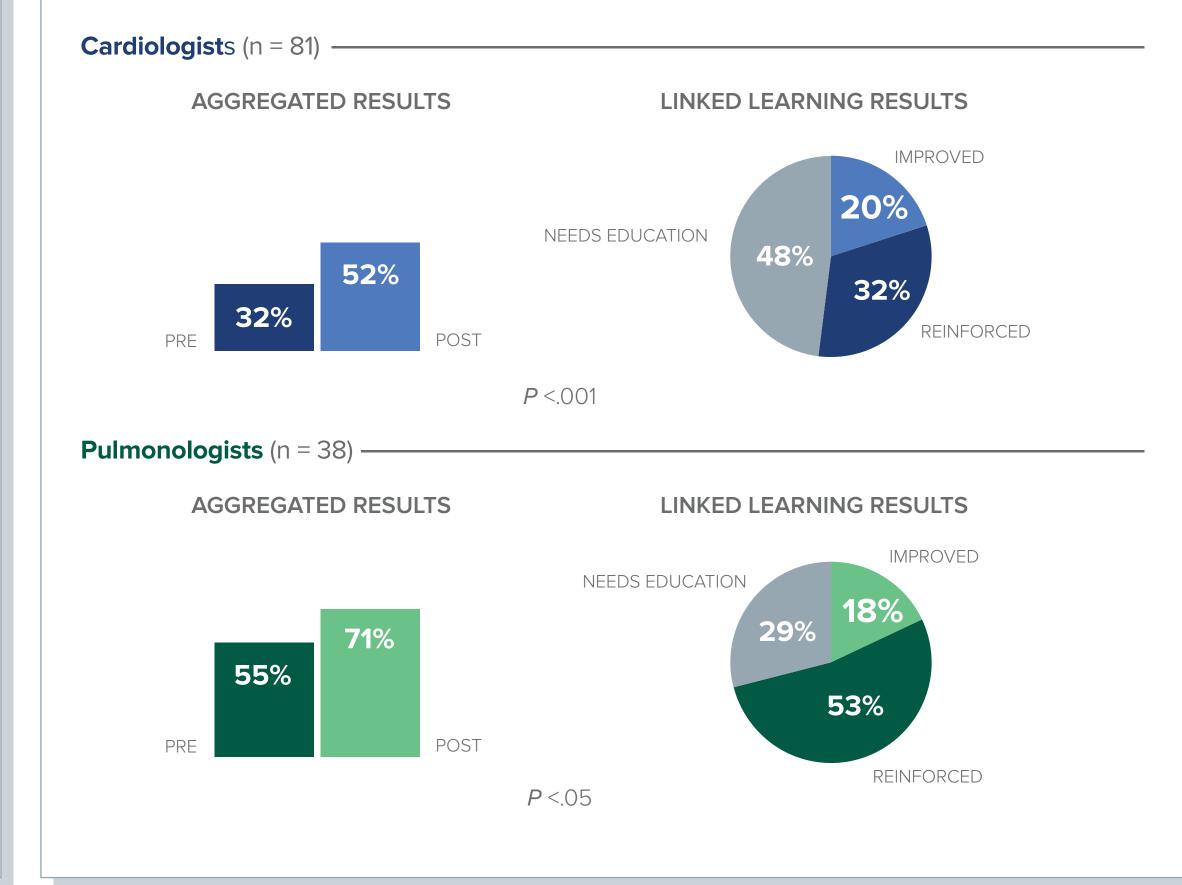
QUESTION: Based on the 2022 European Respiratory Society (ERS)/ European Society of Cardiology (ESC) guidelines, what is the recommended strategy to choose initial pulmonary arterial hypertension (PAH) therapy? (Correct Answer: Risk assessment with 3-strata model)



QUESTION 2 RESULTS

Improvement in knowledge of evidence-based PAH treatment

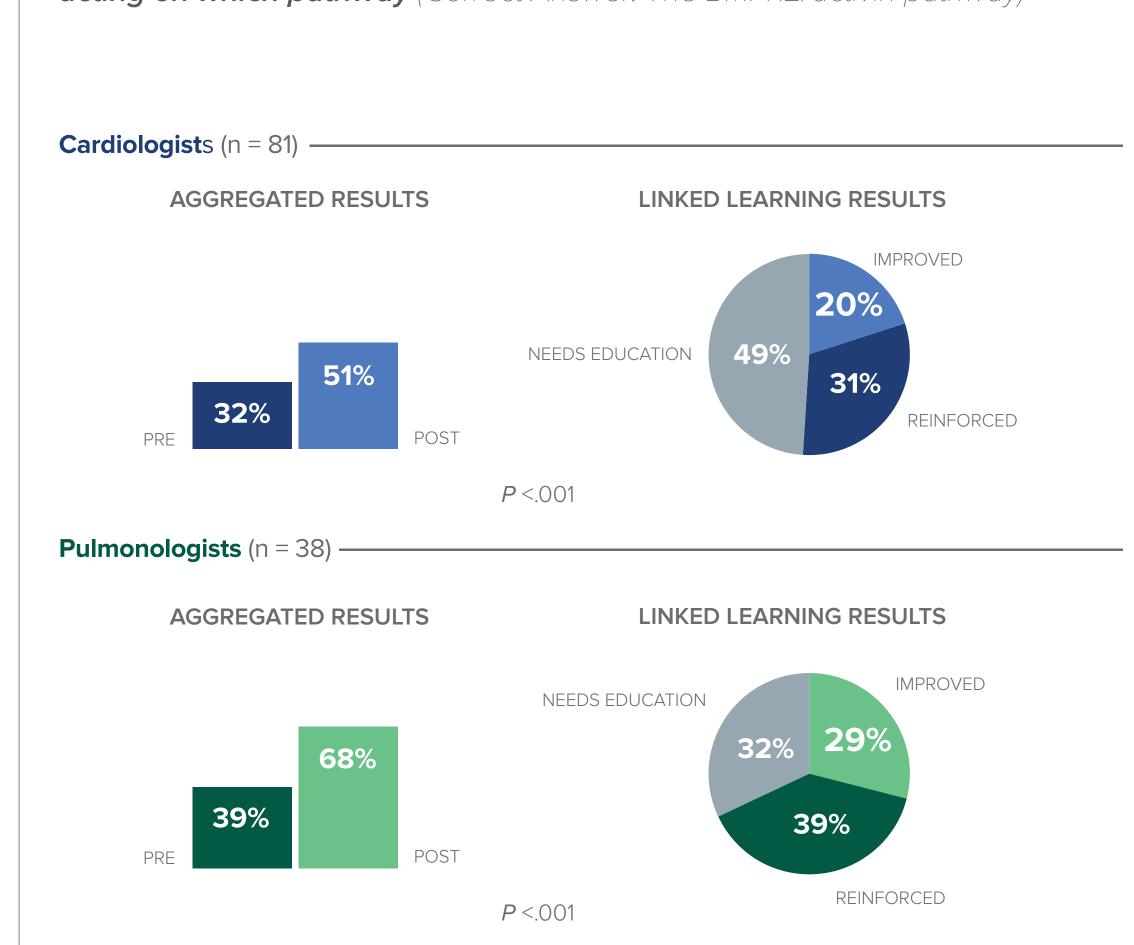
QUESTION: A patient was diagnosed with idiopathic PAH, and their risk assessment indicates a low risk of mortality at 1 year. Which treatment approach is recommended for this patient? (Correct Answer: Dual upfront combination therapy with PDE5 inhibitor and ERA)



QUESTION 3 RESULTS

Competence in selection of PAH treatment based on risk status

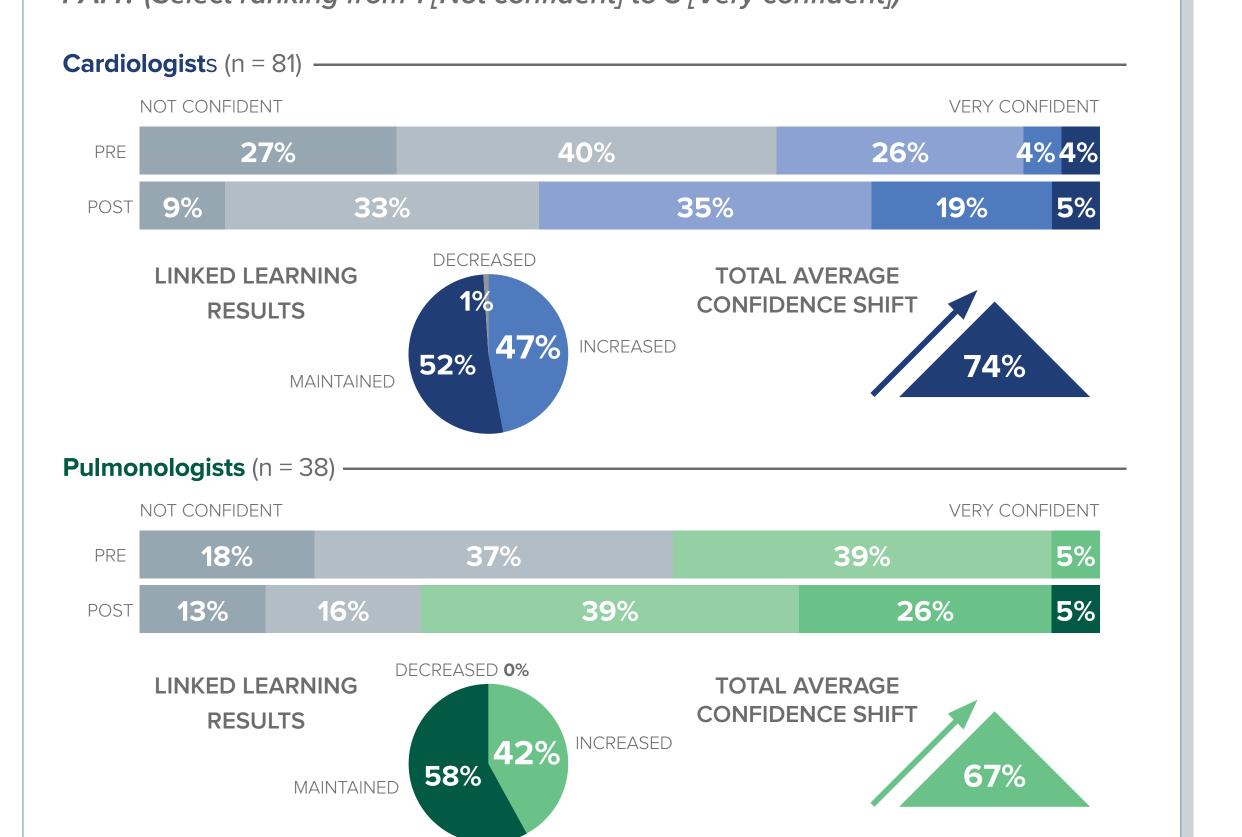
QUESTION: A novel drug approved for the treatment of PAH, sotatercept, is acting on which pathway (Correct Answer: The BMPR2/activin pathway)



CONFIDENCE ANALYSIS

Confidence in ability to facilitate shared decision-making to improve disease management

QUESTION: How confident are you right now in your ability to facilitate shared decision-making to enhance disease management for patients with PAH? (Select ranking from 1 [Not confident] to 5 [Very confident])



CONCLUSIONS

This study demonstrates the success of online case-based CME delivered as a gameshow on knowledge, competence, and confidence of physicians related to the identification and management of PAH. Continued gaps were identified for future educational targets.

ACKNOWLEDGEMENTS

Supported by an independent educational grant from Actelion, a Janssen Pharmaceutical Company of Johnson and Johnson and Merck & Co.

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