

BACKGROUND

In clinical practice, rhythm control strategies are currently used for the management of patients with atrial fibrillation (AF). However, despite different randomized trials, real-world data, and new guidelines, clinicians have varied degree of competence and confidence integrating the latest evidence and recommendations for the use of rhythm control strategies to treat AF in real-world practice. The effectiveness of a continuing medical education (CME) intervention to address these gaps in competence and confidence are unknown.

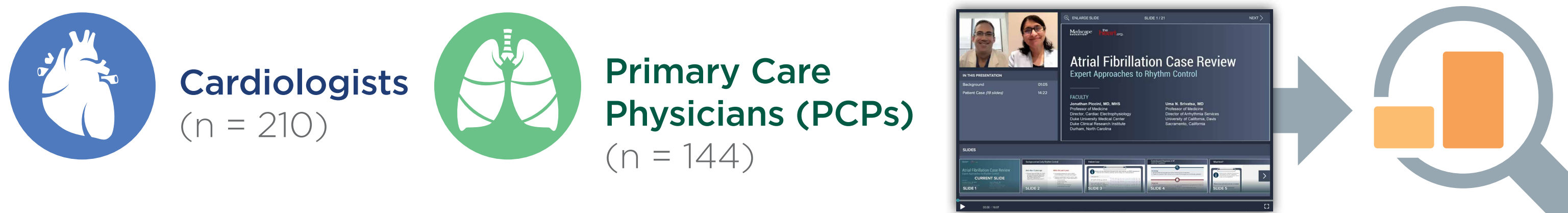


OBJECTIVES/PURPOSE

This study was examined whether online CME could improve the competence and confidence of cardiologists and primary care physicians (PCPs) regarding the diagnosis and appropriate selection of antiarrhythmic drug (AAD) therapy in patients with AF.

METHODS

The CME intervention comprised of a 15-minute online discussion between 2 expert faculty. Educational effect was assessed using a repeated-pair design with pre-/post-assessment. Three multiple choice questions assessed 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 activity posted on March 24, 2023; data were collected through May 16, 2023.



How to Read the Linked Learner Assessment

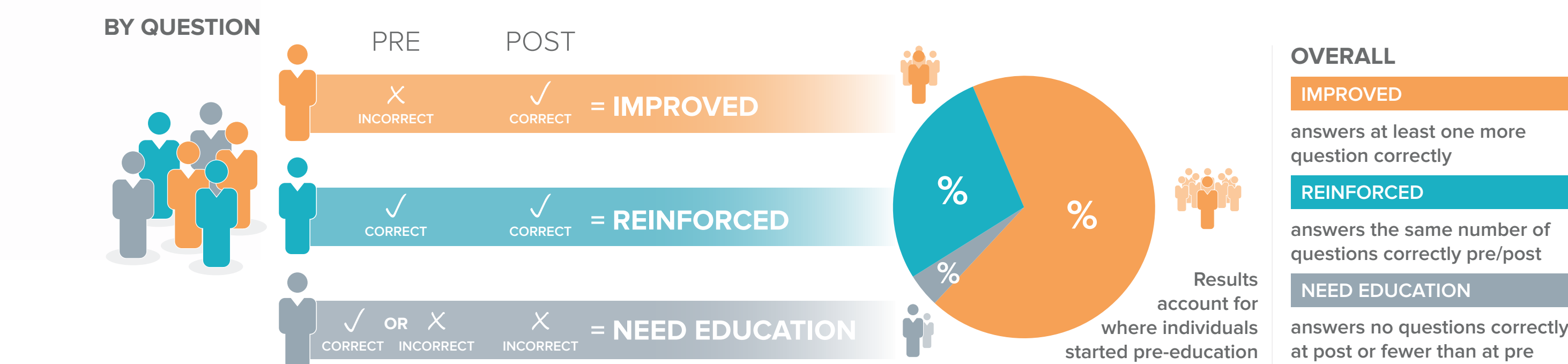
OUTCOMES COMPLETERS

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

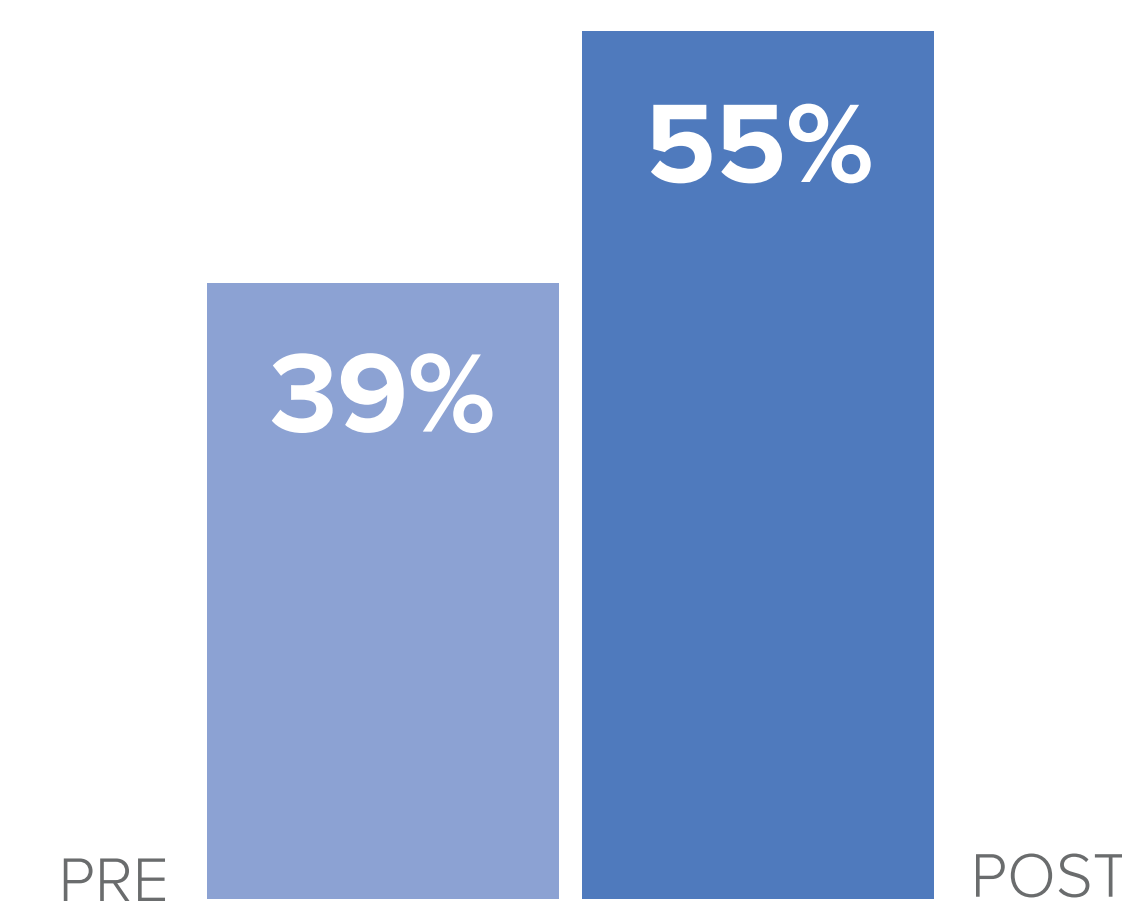


RESULTS

OVERALL

Cardiologists (n = 210)

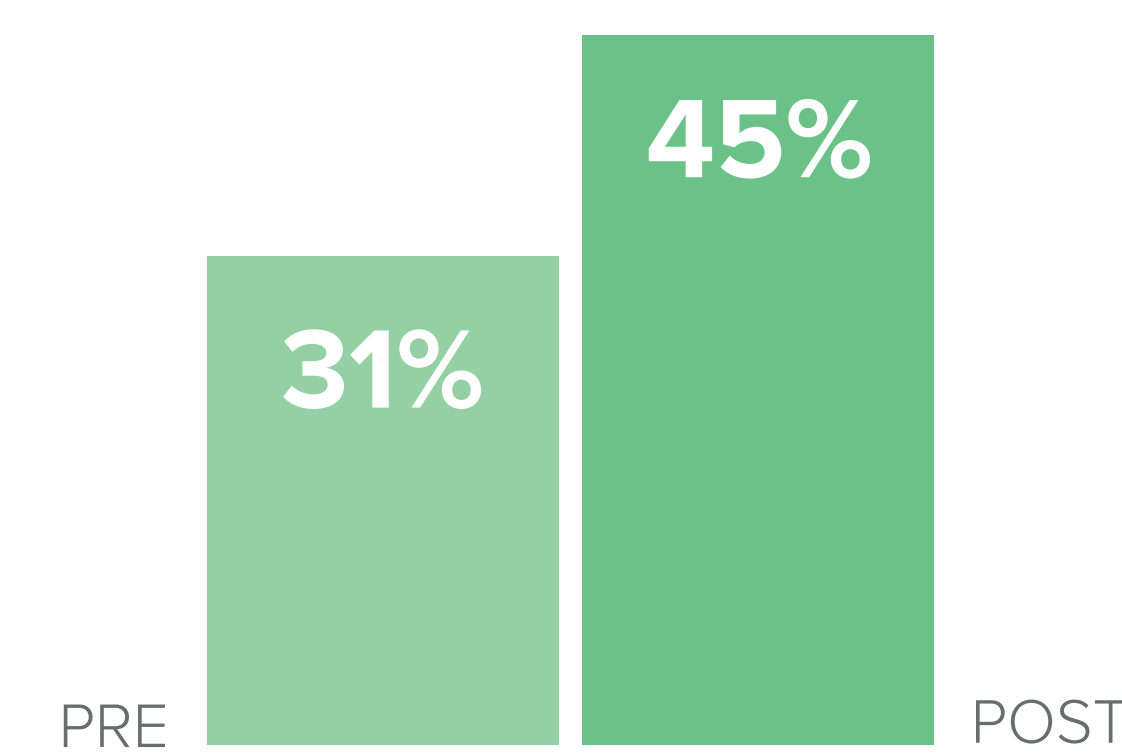
AGGREGATED RESULTS



CHI-SQUARE TEST $P < .001$
SIGNIFICANCE ($P < .05$)

PCPs (n = 144)

AGGREGATED RESULTS

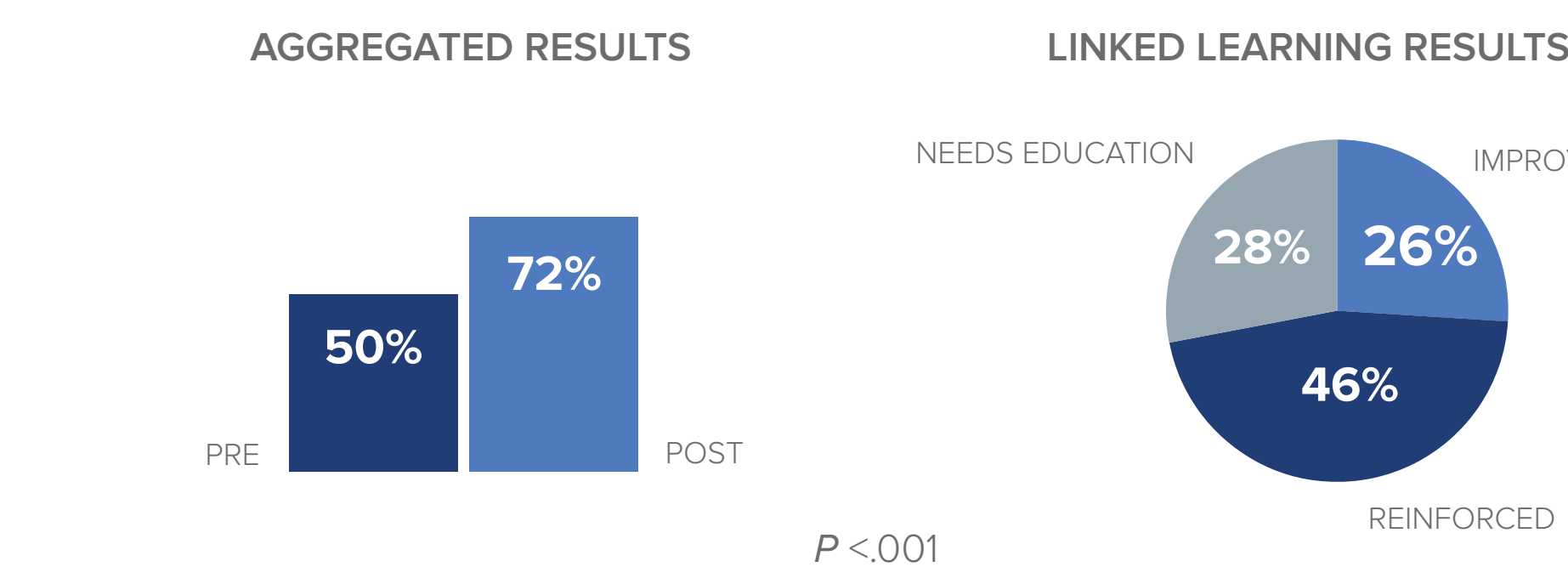


CHI-SQUARE TEST $P < .001$
SIGNIFICANCE ($P < .05$)

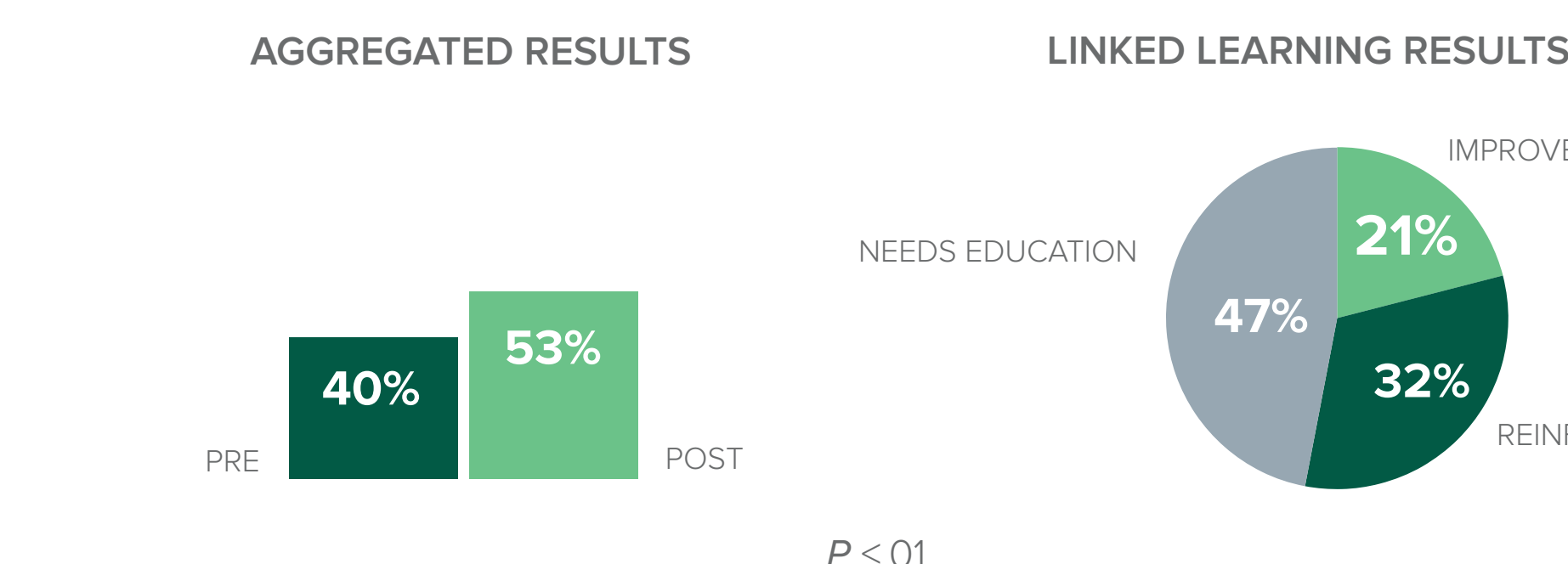
QUESTION 1 RESULTS

Competence related to the timely diagnosis of AF in accordance with the latest guideline-based screening recommendations

Cardiologists (n = 210)



PCPs (n = 144)

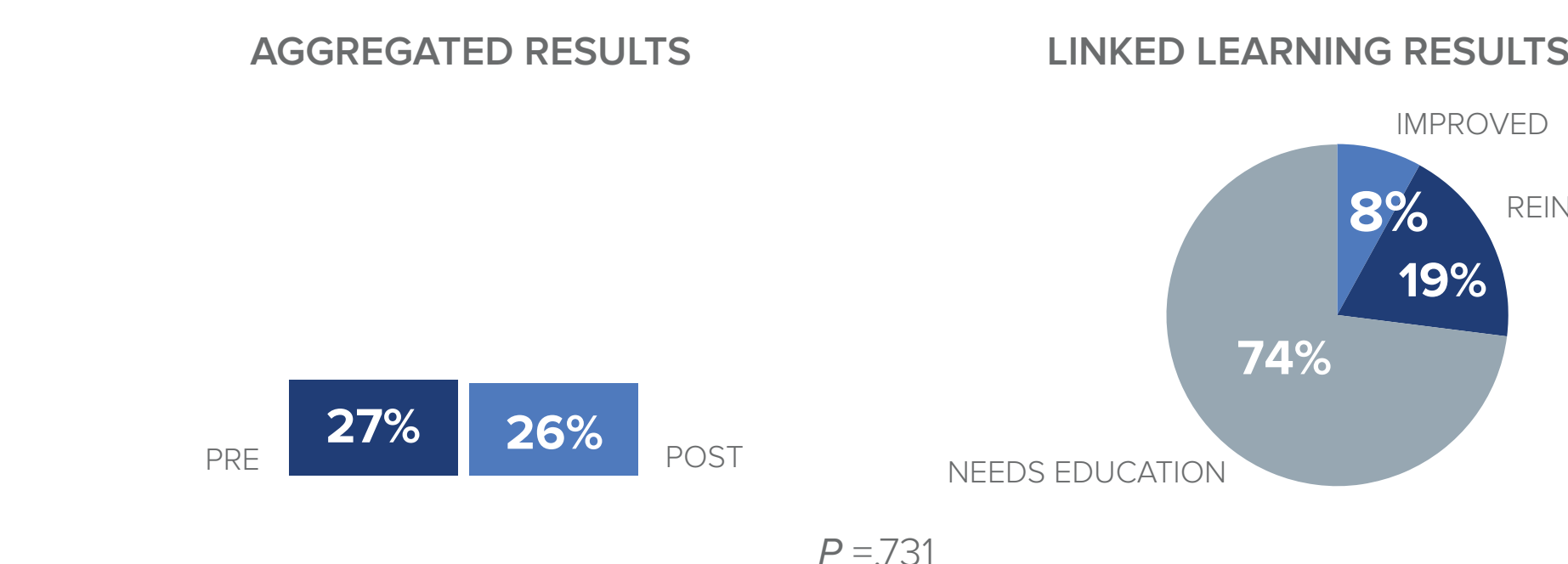


QUESTION: A patient presenting with symptoms of atrial fibrillation (AF) was referred for an electrocardiogram (ECG). What is the minimum time requirement for a single-lead ECG recording when diagnosing AF? (Correct Answer: 30 seconds)

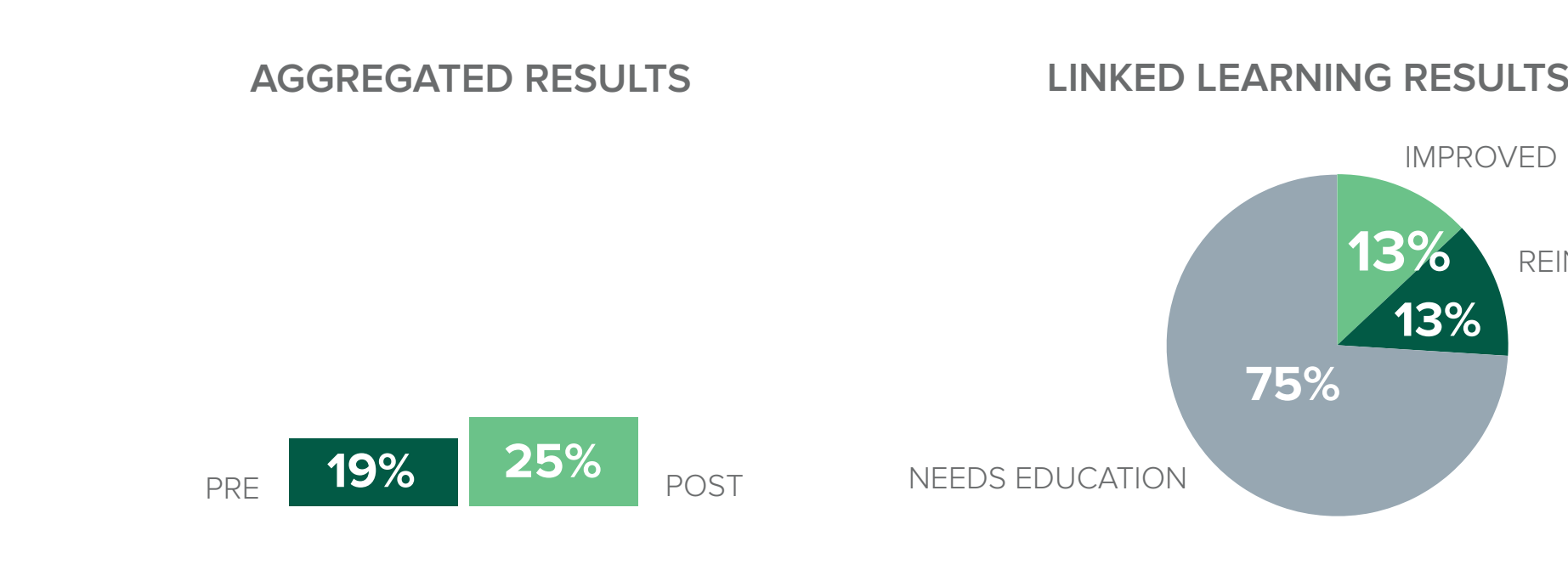
QUESTION 2 RESULTS

Competence related to the selection of appropriate AADs for rhythm control in patients with AF in different clinical situations in accordance with the latest clinical evidence and practice guidelines

Cardiologists (n = 210)



PCPs (n = 144)

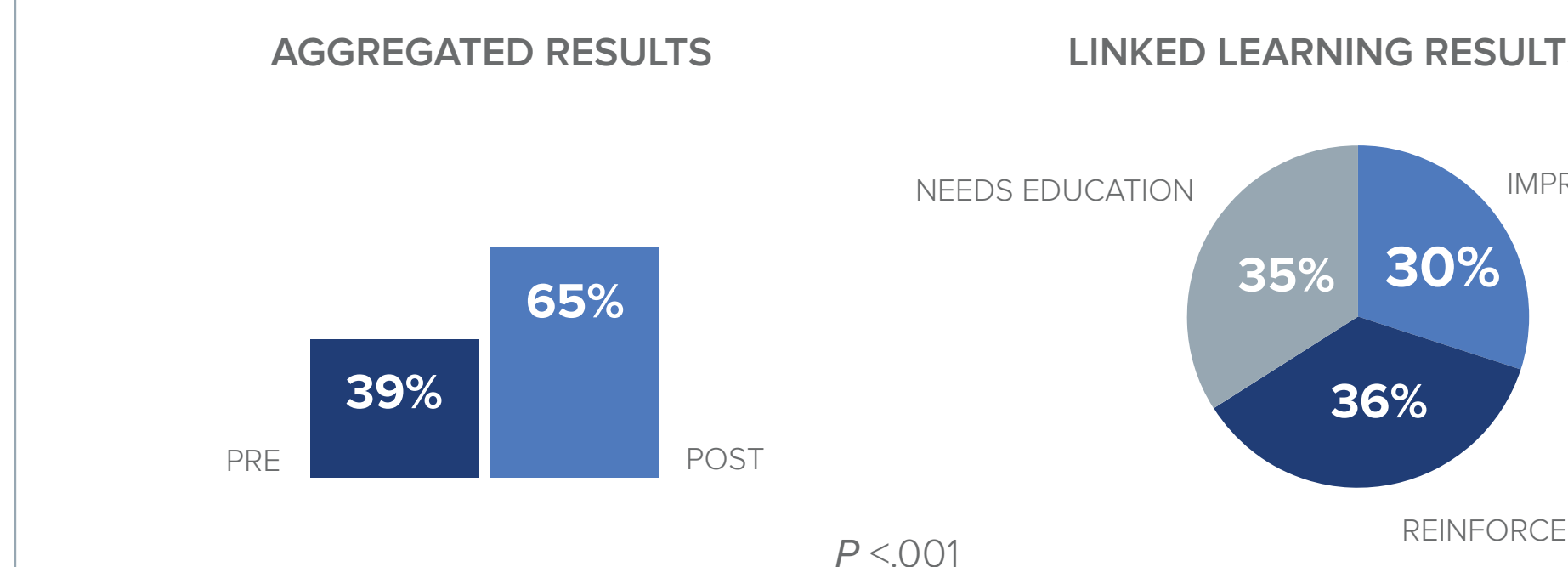


QUESTION: Which of the following best describes the findings in the ATHENA trial post hoc analysis of dronedarone compared with placebo in AF with concomitant heart failure with preserved ejection fraction (HFpEF) and heart failure with mildly reduced ejection fraction (HFmrEF)? (Correct Answer: Risk reductions for death and CV hospitalization were fairly comparable across a broad range of ejection fractions)

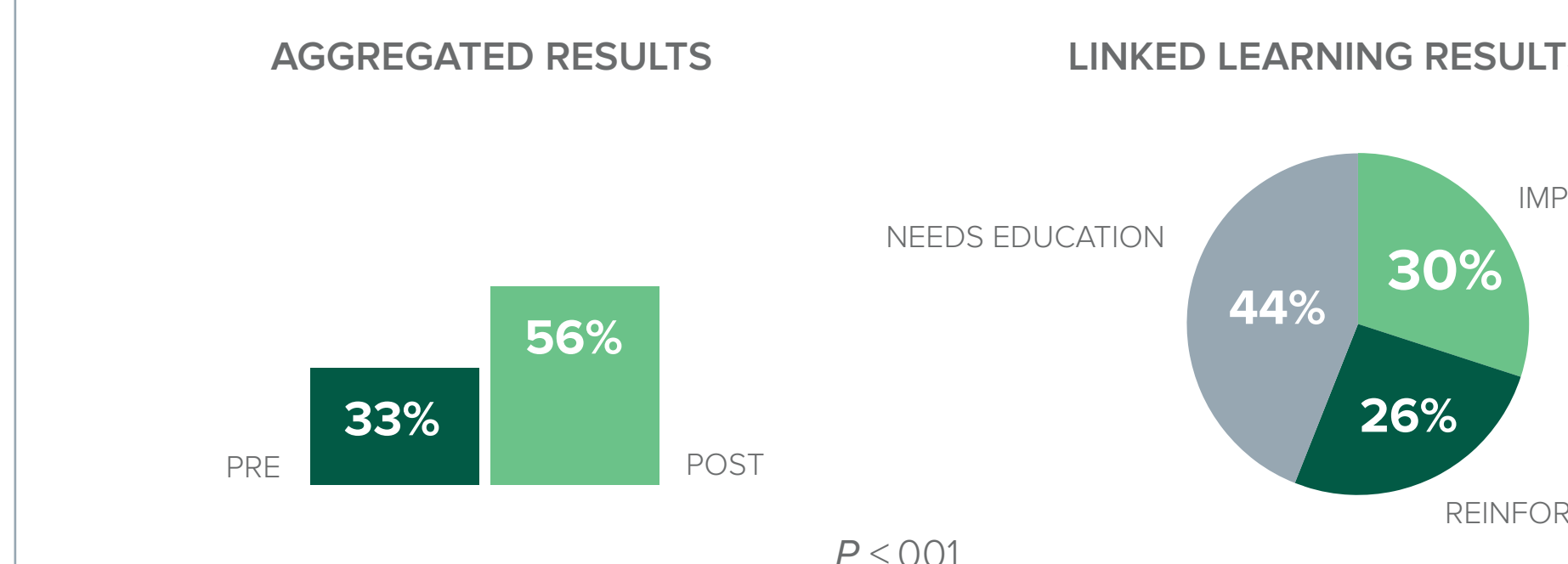
QUESTION 3 RESULTS

Competence related to the selection of appropriate AADs for rhythm control in patients with AF in different clinical situations in accordance with the latest clinical evidence and practice guidelines

Cardiologists (n = 210)



PCPs (n = 144)

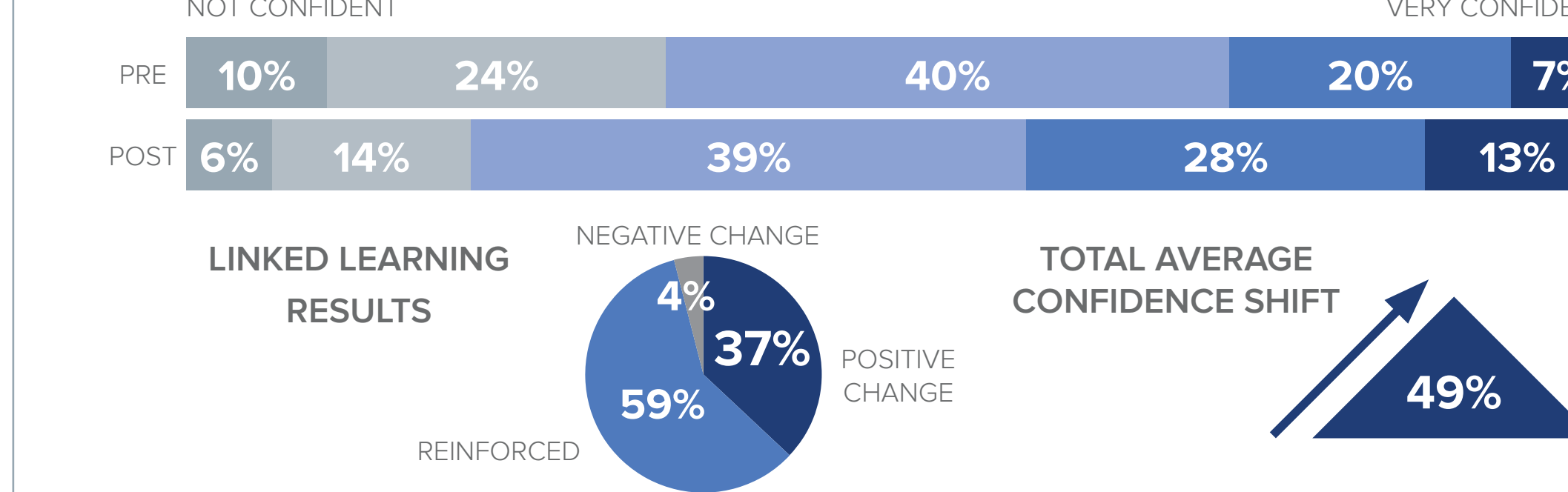


QUESTION: A patient diagnosed with AF is also found to have left ventricular hypertrophy (wall thickness = 22 mm) and ejection fraction > 45%. Which of the following antiarrhythmic agents are indicated for this patient? (Correct Answer: Amlodarone and dronedarone)

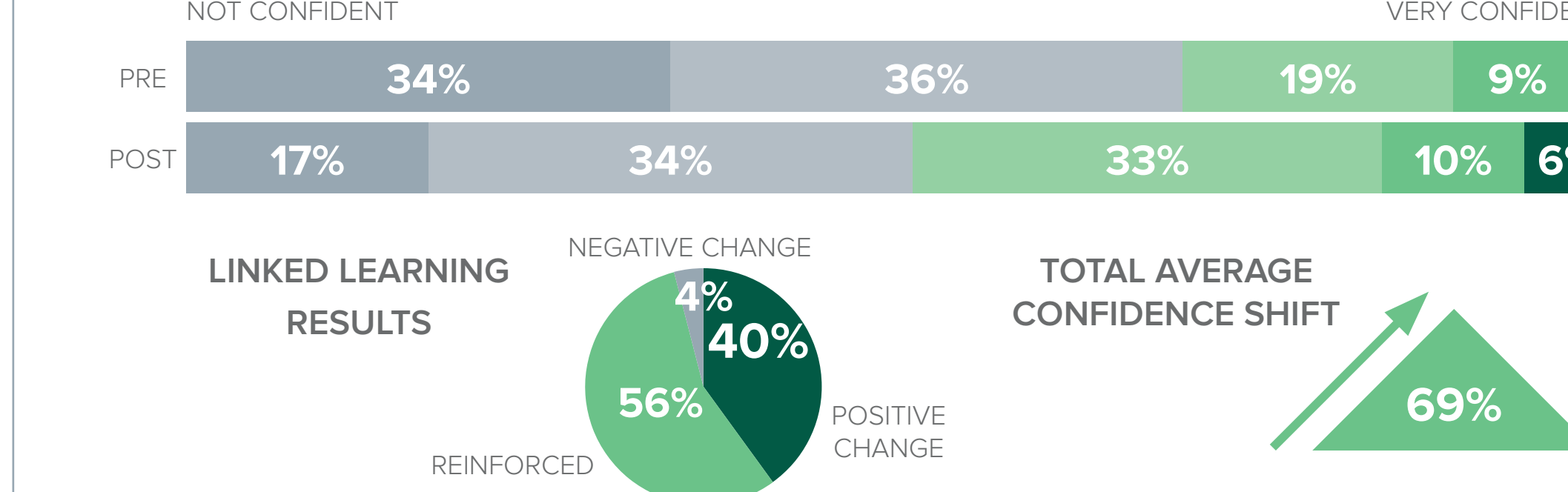
CONFIDENCE ANALYSIS

Confidence in ability to collaborate with the interprofessional team to improve/address patient adherence to prostacyclin therapy ($P < .05$).

Cardiologists (n = 210)



PCPs (n = 144)



QUESTION: How confident are you right now in communicating the risks and benefits of AADs for rhythm control with your patients with AF? (Select ranking from 1 [Not confident] to 5 [Very confident])

CONCLUSIONS

This study demonstrated the success of online CME at improving the competence and confidence of cardiologists and PCPs related to the diagnosis and appropriate application of rhythm control strategies in patients with AF. Persistent educational gaps were identified for future educational targets.

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