

Virtual Simulation-Based CME Improves Diagnosis and Management of Atrial Fibrillation

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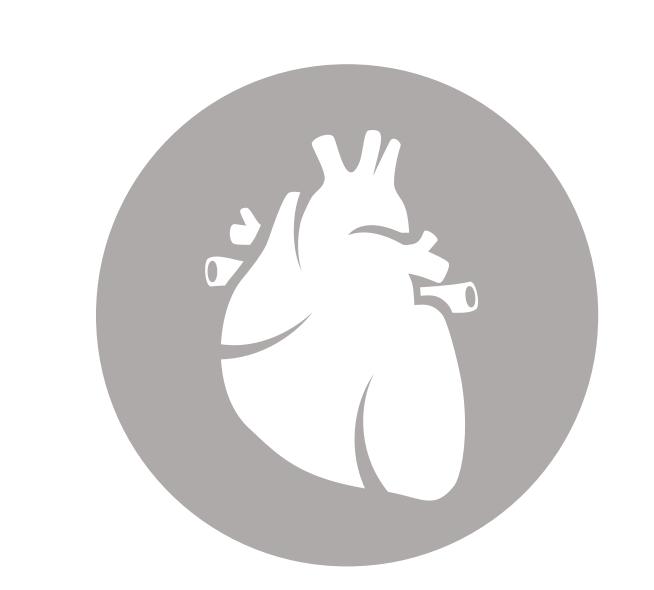
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BACKGROUND

The ability of virtual patient simulation (VPS) case-based interventions to improve clinical decision making for patients with atrial fibrillation (AF) is unknown.



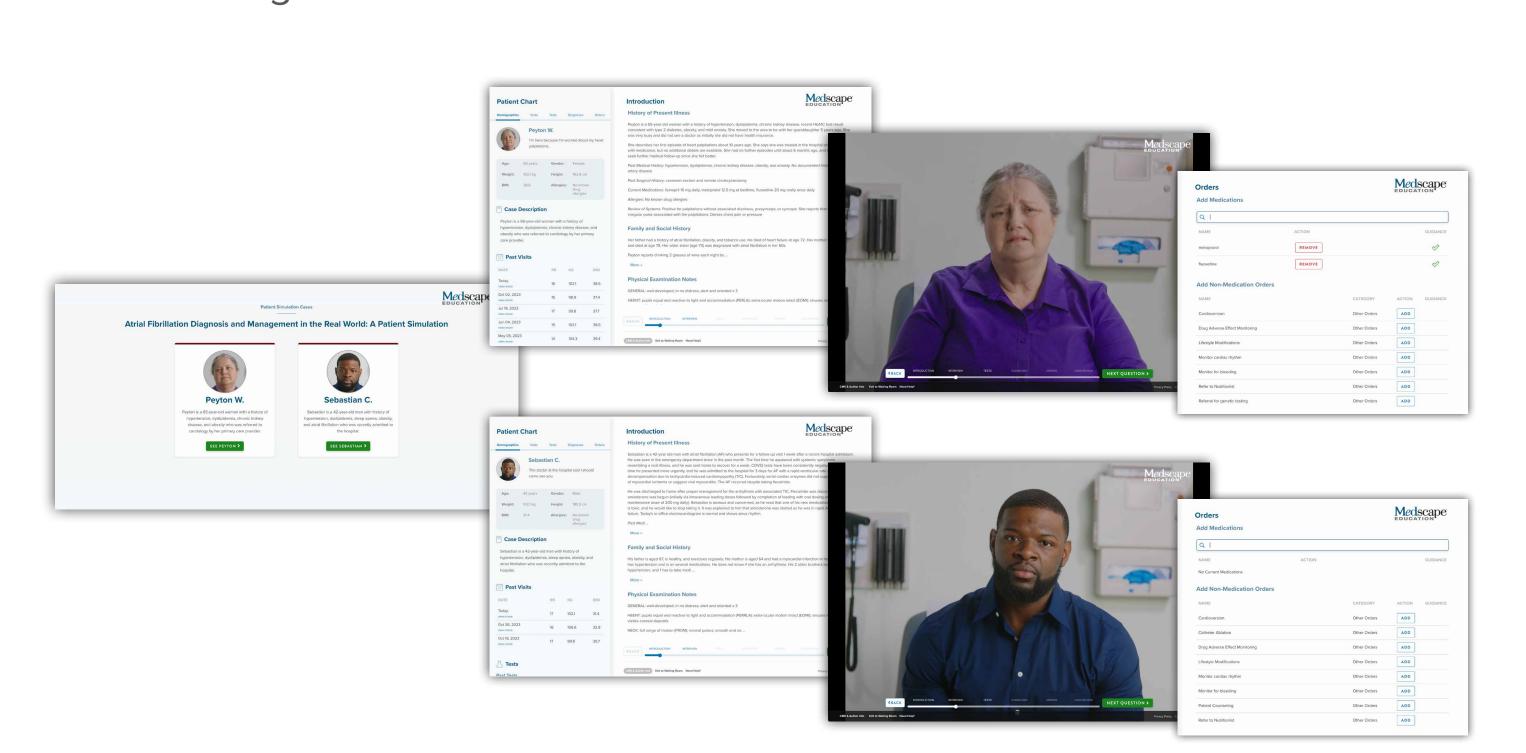
METHODS

Two patient cases were presented using a VPS platform where learners could order tests, make diagnoses, and order treatments in a manner matching the scope and depth of actual practice. Clinical decisions were analyzed, and learners received clinical guidance (CG) based on current evidence and expert recommendations. Learners could modify their decisions post-CG. Pre-CG (baseline) vs post-CG decisions were compared using McNemar's test. The intervention launched in August 2022 and data were collected through December 2022.



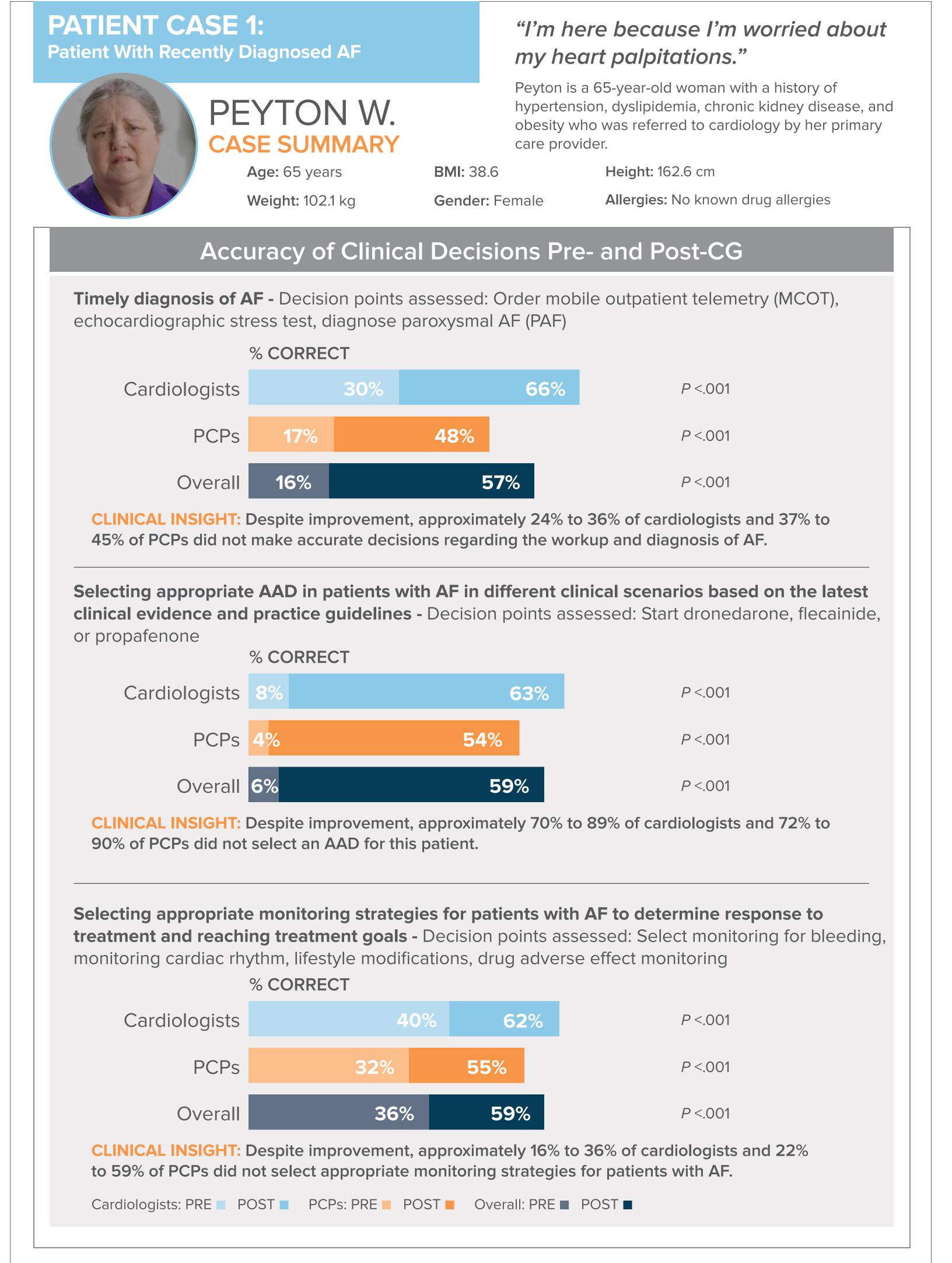
Cardiologists (n = 1,032)

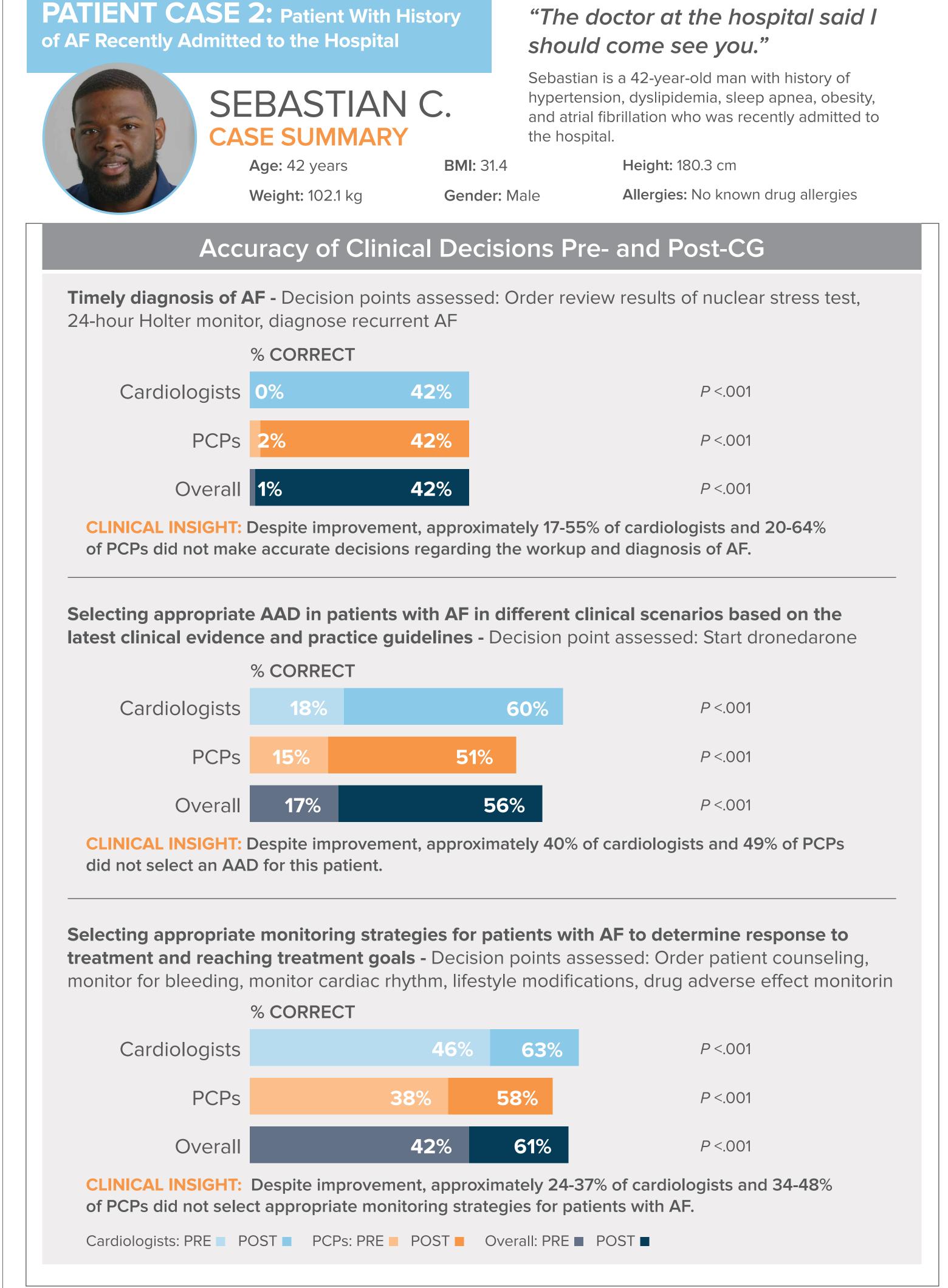
Primary care physicians (PCPs) (n = 567)



RESULTS

Significant improvements were seen for appropriate, timely diagnosis of AF and treatment selection in the overall learner population. Treatment improvements were greatest for tailoring anti-arrhythmic drug (AAD) therapy in patients with recently diagnosed AF. Improvements in selection of appropriate AAD was observed for all specialties, although specialty-specific differences were apparent. Significant improvements were also observed for selection of appropriate monitoring strategies to determine response to treatment and reaching treatment goals.





CONCLUSIONS

Case-based AF intervention
employing VPS was associated
with improvements in diagnostic
and therapeutic decisionmaking among cardiologists
and PCPs. Despite the observed
improvements, gaps remain
in diagnosing and selecting
appropriate rhythm control
management strategies for
patients with AF.

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