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including echocardiogram for those athletes with a positive ECG screen.

Results: The model predicted that 16% of all athletes would be expected to have a positive ECG, but only 1.3% of athletes with a positive ECG would have a cardiac

abnormality capable of causing SCD, including hypertrophic cardiomyopathy,

structural defects, and various conduction abnormalities. Total annual cost estimates for ECG screening and follow-up exceeded \$126 million. Average cost per year of life saved across groups was \$2693, and the cost to identify 1 additional case averaged \$100827. Compared with females, males had both lower cost per year of life saved and lower cost to identify 1 true case. Similarly, black males exhibited lower costs than white males. Across groups, false-positive

ECG screening exams accounted for 98.8% of follow-up costs.

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Conclusions: Large-scale, mass ECG testing would be a costly method to identify athletes with cardiac abnormalities. Targeting high-risk populations can increase the effectiveness of the ECG for athletic PPE screening.

Keywords: cardiac abnormalities, sudden cardiac death, prevalence

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