Systematic review of ECG-based signal analysis technologies for evaluating patients with acute coronary syndrome


Record Status
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Citation

Authors' objectives
To summarize the clinical and scientific evidence for commercially available ECG-based signal analysis technologies used or proposed to be used to evaluate patients at low to intermediate risk for coronary artery disease (CAD) who have chest pain or other symptoms suggestive of acute coronary syndrome (ACS).

Authors' conclusions
Existing research is largely insufficient to confidently inform the appropriate use of ECG-based signal analysis technologies in diagnosing CAD and/or ACS. Further research is needed to better describe the performance characteristics of these devices to determine in what circumstances, if any, these devices might precede, replace, or add to the standard ECG in test strategies to identify clinically significant CAD in the patient population of interest. To fully assess the impact of these devices on diagnostic strategies for patients with chest pain, test performance needs to be linked to clinically important outcomes through modeling or longitudinal studies.

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