

KardiaMobile 6L for measuring QT interval in people having antipsychotic medication to inform early value assessment: a systematic review

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Plain language summary

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Plain language summary

Some medicines used for people with certain mental health problems can increase the risk of developing serious heart conditions. Although these heart conditions are rare, it is generally recommended that people have an electrocardiogram examination before starting to take these medicines. People who need to continue these medications over a period of time may need additional electrocardiograms every so often, to check for any heart problems that have developed recently.

KardiaMobile six-lead (or 6-lead) is a portable electrocardiogram that may offer a less intrusive way to take electrocardiogram measurements. This is because less undressing is needed as the electrodes are only applied to fingers of the left and right hand and the left ankle or knee and the cold gel is not needed. Testing using the KardiaMobile six-lead device can be carried out at the patient's home. These features might mean that the KardiaMobile six-lead device could be more acceptable than the 12-lead electrocardiogram to some patients.

This assessment considered whether the KardiaMobile six-lead device has the potential to provide an effective and safe alternative to 12-lead electrocardiogram for initial assessment and monitoring of the risk of heart problems in people taking antipsychotic medications. Based on the available evidence, it remains unclear whether KardiaMobile six-lead has adequately demonstrated sufficient evidence of potential advantage(s) over current practice to justify further research to inform assessment of its clinical effectiveness and cost effectiveness. Our report provides detailed recommendations about the research needed, to provide further information about potential benefits so that a decision can be made about whether it should be used in the NHS in England, after further research has been completed.

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