

# The Tees Remote ECG Pathway



Tees, Esk and Wear Valleys  
NHS Foundation Trust

The adoption of mobile ECG technology for monitoring patients on anti-psychotic medication

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## What was the problem?

All antipsychotics have a degree of cardiac risk including

- Arrhythmias
- Syncope
- QT Prolongation
- Torsade de pointes (potentially life threatening heart arrhythmia)
- Sudden cardiac death

During pandemic we encountered additional challenges, including:

- Lockdown/Shielding patients
- Social distancing
- Risk of side effects
- Issue for starting patients on medication

## What was our solution?

- AliveCor - KardiaMobile 6L ECG Monitor
- Licensed by FDA & CE for QT measurement
- We used the opportunity to pilot
- Real World Evaluation



£ 3,854

Approximate cost saved per team, per year



17.5

minutes saved per ECG



£ 327,607

Approximate projected cost saved per year, based on 85 teams across the Trust who carry out these ECGs



72

Hours saved per team, per year



255

days saved in 1 year across the Trust

## What did we do?

Real world evaluation funding- AHSN NENC

- 30 devices
- Shared among community and inpatient teams
- 3 areas in older Adult Psychiatry teams
- 2 areas of General Adult psychiatry team
- In-patient services
- Developed a local SOP and got approval for the pilot from COVID gold command
- Feedback surveys from staff and service users
- Cost and Time analysis

## Results

### Staff feedback

The amount of ECGs you can complete in a short period of time, with limited disturbance to the clients could really impact on our service.

I believe all Clinical Support Workers should have one, and Clinicians also (during assessments/diagnostics) it would substantially save a lot of time and money to the trust, in mileage and speeding up waiting times.

If you took it off me I would cry!

## Results

### Patient feedback

Patient responses to Usual and Remote ECG devices in anti-psychotic medication monitoring



## Next steps

- NHSX funding for 140 devices to continue the project
- 100 devices for TEWV NHS
- 40 devices for CNTW NHS
- Envisage national adoption

