**ECG-X: Clinical Stakeholder Consultations**

***Method:***

Focus groups and interviews to investigate how clinicians use and interpret ECGs with the current provisions and consider how ECG-X could help to improve future development.

Pre-existing social groups:

Participants will be convenience and purposively sampled; 4-6 participants per clinical field.

Assumed average time: 1.5 hours

***Topic Guide:***

**Introduction:**

Welcome

Introducing the research and researchers

Researcher will be introduced as moderator of the focus group

Introduction of participants

Aim of the research

Schedule

Some ground/house rules

PIS and consent forms

**Semi-guided discussion:**

*BLOCK A: How do you use and interpret ECGs?*

Implications of using ECGs and applications around it:

How often do you read ECGs in your job?

Which are the hardest pathologies to spot?

What approaches do you take to come to a diagnosis (pattern recognition, mathematical, automated read-outs etc.)

What are current shortfalls in how ECGs are recorded, interpreted and stored?

What features work particularly well in your opinion?

*BLOCK B: Improved methods*

What functionalities should be added/would be desirable in future developments,   
in general?

*BREAK (10 Minutes)*

*BLOCK C: ECG-X presentation*

Show LQTS viz; show STEMI viz

The X-ray analogy: How does the way you look at ECGs compare to other imaging techniques, such as an X-ray (format differences, image mod options etc.)?

*BLOCK D: ECG-X-focussed engagement*

How could digital technology enhance the way you interpret ECGs?

How would visualisations highlighting abnormal ECG features be useful?

How would visualisations highlighting specific conditions be useful?

Do you think colouring is specifically useful or can you think of others forms to   
highlight abnormalities in ECGs?

How do you see visualisations in comparison to current methods, such as  
automated read-out or thresholds?

*BLOCK E: ECG-X future forward*

What would you make differently going forward?

How important is it for you to know how an automatic algorithm to interpret ECGs is working?

Are you interested in improving ECGs?

END: Questions and de-brief

Remark again, that participants have the right to withdraw from the study, and if they do so, explain how their data will be handled and used further.

Highlight that data (or parts of it) can’t be removed from recordings.

Thank you and sign-up to follow-up email.