



**Service Priorities and Programmes**  
**Electronic Presentations**

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**Screening Irregular Heart Rate in chest pain patients in Emergency medical ward**

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atrial fibrillation

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ectopic beats

**Introduction**

In the emergency centre setting, there are a lot of patients who complain of chest pain, most of these patients are admitted to EMW for putting on cardiac monitor to screen for ectopic beats. However, their data of the ECG rhythm is not saved. My project aims to collect the data of the ECG, in order to detect some early signs such as slow AF or NSVT in which patients may not actively feel discomfort.

**Objectives**

in many medical wards / EMW, patients who are having chest pain / palpitation will have cardiac monitor. Nurses are often too pre-occupied with procedures and document unless the monitor shows extremely alert figures, such as extremely slow heart rate or bizarre ECG or hectic fast AF. From my point of view, the data is very useful to screen out patients with risk. However, under the current management, when the doctor orders off cardiac monitor, the data is deleted after the doctor screens the alert strips (who will be automatically saved).

**Methodology**

I suggest that a team of 2-3 nurses are able to screen the ECG rhythm saved, and document the important characteristics, for instance, one palpitation patient experienced frequent rhythm change from AF to sinus. The screening nurse should also screen out and delete all the other non-relevant alert ECG strips saved by the system, leaving out the only ECG strips who have true clinical meanings to doctors to be screened.

**Result**

This can assist doctors in evaluating the heart rhythm and act as primary intervention in the healthcare system, adding a lot more information to the patients in need. The vast data collected can also be later used in statistics and to formulate necessary measures in healthcare.