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

Cheung KC (1)
Emergency Department, PYNEH,

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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, the 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. Nurse 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 order Off cardiac monitor, the data is deleted after the doctor screen 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 characteristic, for instance, one palpiation 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 doctor in evaluating the heart rhythm and act as primary intervention in the heathcare 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