Your hospital is participating in



Optimizing the Diagnosis of Acute Myocardial Infarction/Injury in Women

Can one simple change in how we diagnose myocardial infarction improve care for women and reduce their risk of cardiovascular events and death?

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CODE-MI is a multi-centre, stepped-wedge, clusterrandomized controlled trial funded by CIHR

What is CODE-MI?



Focusing on the need for different standards of evaluation for women with ischemic symptoms



The study is running in 30 hospitals across 8 provinces

Women with acute coronary syndrome = underdiagnosed and undertreated.



Therefore, women are at higher risk of mortality following their infarction.

Why?

Using a single level high-sensitivity cTn (hs-cTn) threshold to identify patients with a myocardial infarction (MI) may contribute to the underdiagnosis of MI in women.

A single, overall cTn threshold is still used in most clinical settings, despite evidence and guidelines recommending sex-specific thresholds.

The importance of sex-specific thresholds

Women's levels of hs-cTn are lower than the overall threshold currently being used, and lower than the threshold in men, for all assays.

CURRENT THRESHOLD

Women have different levels of cTn than men because of factors like:

- · Unequal heart mass
- $\cdot\;$ The protective role of estrogen
- $\cdot \;$ Thrombotic activity
- · Different mechanisms of ischemia

CODE-MI will...

- Use the 99th percentile female threshold for the diagnosis of MI in women presenting to the ED with ischemic chest pain, instead of the overall 99th percentile threshold
- Provide an opportunity to test the impact of sex-specific thresholds on the diagnosis, treatment, and outcomes of women presenting to ED with ischemic chest pain