



Western
The Centre for Quality,
Innovation and Safety



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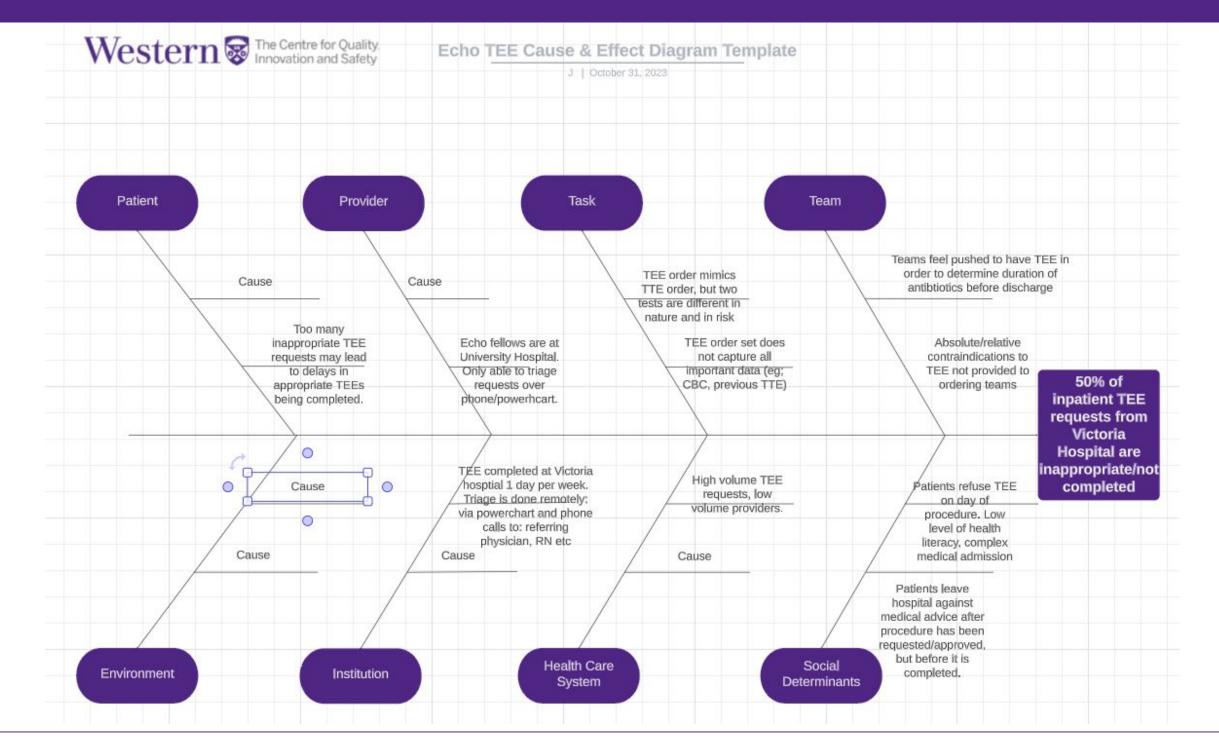
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AIM Statement: Increase the approval of inpatient transesophageal echocardiograms (TEE) at Victoria Hospital to 85% by May 2024.

PROBLEM DEFINITION

- Transesophageal echocardiography (TEE) resources are limited in human resources: Cardiologist, Echocardiography fellow, Sonographer, Nurse(s), Clerical clerk, Porter, and institutional resources: procedure room, TEE probe, medication.
- High volume of TEE requests are inappropriate or not completed:
- Baseline: 61-72% of TEE requests approved
- Baseline: 48-65% of TEE requests are completed

ROOT CAUSE ANALYSIS



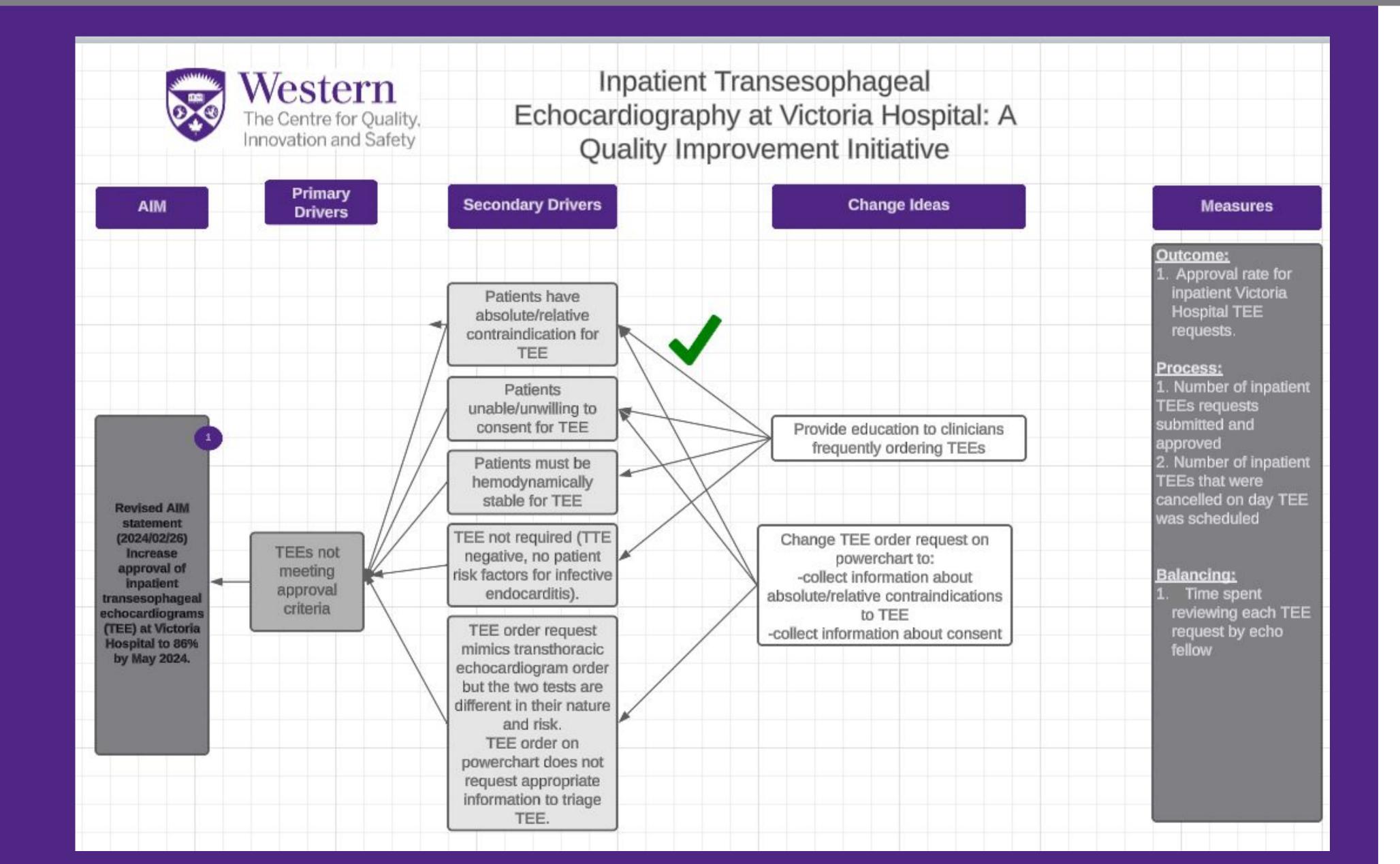
Stakeholder feedback

Infectious Disease (ID):

- -Advised questions may encourage ID to review contraindications to TEE before ordering test.
- -Brought up additional question to consider adding re: patients who inject drugs

Hematology/CTU Medicine (Chief Medicine resident at VH):

-Found TEE questions reasonable, not burdensome -Advised TEEs not ordered frequently/urgently, providers have time to review questions and enter requests



Platelet Count

No result in past 7 days

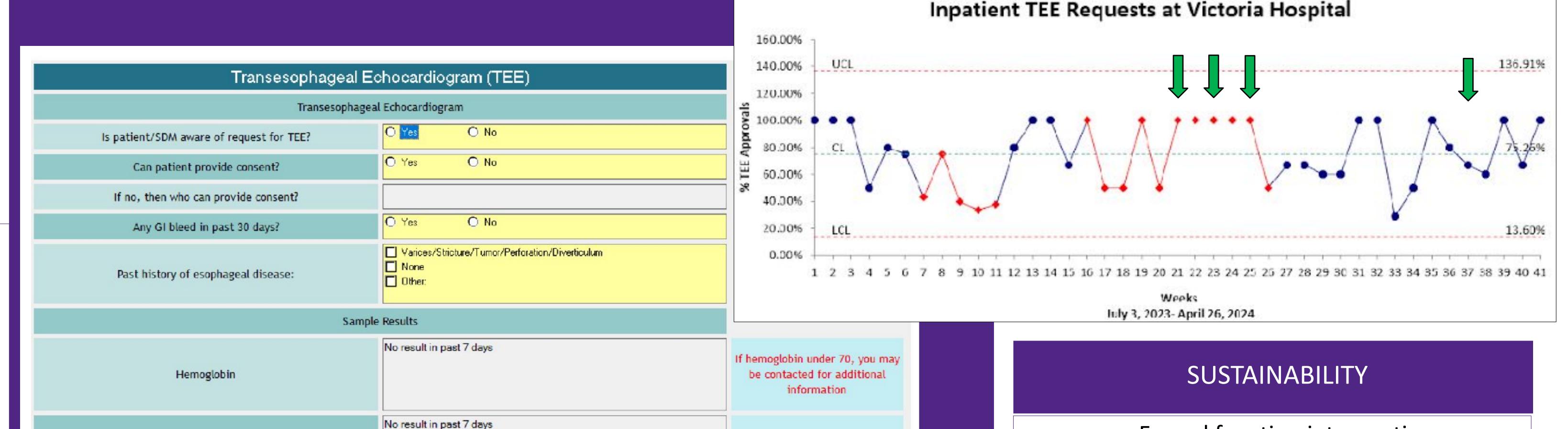
IMPLEMENTATION

Developed TEE order request Powerform with IT services. Includes:

- -Patient awareness of test, ability to consent
- -Contraindications (absolute/relative)
- -Gathers Powerchart data (Hb, platelets, INR)

MEASUREMENT & RESULTS

- -Implementation: March 27- April 26, 2024
- -75% of TEE requests approved
- -63% of TEE requests are completed
- -Reduction in time required to review TEE:
- -Of TEEs accepted: time to review decreased
- from 11.1 to 6.8 minutes
- -Of TEEs rejected: time to review decreased from 22.1 to 8 minutes



If platelets under 50, you may be

contacted for additional

information

- Forced function intervention
 Built in sustainability
- Future intervention considerations: Education
 Requires regular interval reimplementation