

Program Quality Improvement Initiatives to Address STEMI Indicators

Quality Performance Measurement and Monitoring Cycle Summary Document

Q2 2019/20 Discussions March 2020



Introduction

In October and November of 2019, CorHealth Ontario (CorHealth), in partnership with the Ministry of Health, and LHINs, met with each of the 20 cardiac programs, for the fifth Quality Performance Measurement and Monitoring (QPMM) Cycle. Discussions focused on key indicators related to STEMI care included in the QPMM Quality Scorecard.

As part of the QPMM process, CorHealth produces a follow up document to share learnings, successes, efforts, and challenges across the province based on the discussions.

Additional Resources: CorHealth has published <u>resources to support STEMI providers</u> on the website, including the Ontario STEMI Bypass Protocol, the Ontario Emergency Department Protocol (education, pocket cards, algorithm), Partnership Maps, Paramedic 12-Lead ECG Guidelines, and a previous version of this document.

Program Quality Improvement Initiatives

The focus of this summary Q2 19/20 document aims to highlight four programs who have put in place successful quality improvement (QI) initiatives to address the STEMI indicators. Initiatives to address each indicator are colour-coordinated: **% of STEMI cases** *presenting to a PCI Hospital achieving Door-to-Balloon-Time* ≤ 90 *minutes;* **% of STEMI** *cases presenting to a Non-PCI Hospital achieving Door-to-Balloon-Time* ≤ 120 *minutes, and actions that work to address both indicators.*

SCARBOROUGH HEALTH NETWORK

Working with EMSAs a high-volume STEMI program, Scarborough Health Networkand Feeder(SHN, on the QPMM Scorecard as RVH), has identified falseHospitals toactivations of the STEMI system as a target area of focus. ToAddress Ealseaddress this without impacting STEMI cases the EMS activates	INITIATIVES	DESCRIPTION
Activation of CodeCode STEMI, while conducting an ECG and consulting with interventionalists on real time results and patient symptoms. If it is confirmed that Code STEMI activation is not required, EMS will deactivate Code STEMI and bring the patient into the Emergency Department (ED) for further evaluation. SHN has created a space	and Feeder Hospitals to Address False Activation of Code	(SHN, on the QPMM Scorecard as RVH), has identified false activations of the STEMI system as a target area of focus. To address this without impacting STEMI cases, the EMS activates Code STEMI, while conducting an ECG and consulting with interventionalists on real time results and patient symptoms. If it is confirmed that Code STEMI activation is not required, EMS will deactivate Code STEMI and bring the patient into the Emergency



for ED physicians to discuss suspected false positive cases. For hospital activated cases, the interventionalist does a verbal review post Code STEMI activation with ED physician giving them an opportunity to deactivate the Code STEMI.

Providing EMS and Feeder Hospitals with Case-By-Case Feedback SHN works to sustain good communication and regular feedback with EMS and feeder hospitals. Noticing a feeder hospital time dropping in their door-in-door-out time, SNH now provides feedback on every case that comes into the program from EMS and the feeder hospital. This information is transferred through an encrypted email thread that includes physicians, nurse managers, and nurses. This email thread is sent out from the PCI coordinators at SHN and is supported by the STEMI program's interventionalists. This feedback creates accountability and interest in improvement on their feeder hospital's transfer times. It also helps EMS evaluate prehospital timeliness. These strategies have optimized response times and created a platform to discuss the patient journey, care of the patient and serves as an environment of learning and positive feedback for the whole team.

For further information on these initiatives, please contact SHN's Hospital Administrator Trixie Williams <u>trwilliams@shn.ca</u>



Cath lab images from Scarborough Health Network

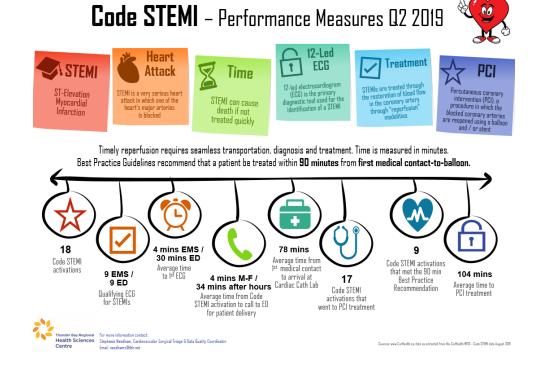


QPMM Quarterly Meetings Summary Q2 2019/20: Program Quality Improvement Initiatives

THUNDER BAY REGIONAL HEALTH SCIENCES CENTER

INITIATIVES	DESCRIPTION
Assessing Door-to- ECG Time with a Gendered Lens	Thunder Bay Regional Health Sciences Center (TBRHSC) has identified patients self-transporting as a major focus area for the program. The team is currently putting effort into assessing Door-to-ECG times with a gendered lens, as gender can influence the presentation of typical angina and lead to longer times waiting for diagnostic testing.
Applying Learnings and Process from Code Stroke to Code STEMI	With the recent relaunch of the Code STEMI at TBRHSC, the team has chosen to take the learnings and processes already in place based on Code Stroke, to facilitate a more streamlined adoption of this new process in the program.
Development of Code STEMI Infographic	The team worked to create a visually striking, easy-to-read infographic on STEMI, including background information, key performance measures, and highlights the program's current results. The goal is to ensure that staff are aware of the terminology and key metrics. The infographic is posted around the program's high traffic areas.

For further information on these initiatives, please contact TBRHSC Hospital Administrator Meaghan Sharp <u>sharpme@tbh.net</u>





QPMM Quarterly Meetings Summary Q2 2019/20: Program Quality Improvement Initiatives

TRILLIUM HEALTH PARTNERS

INITIATIVES DESCRIPTION

Focusing on Door to
ECG Time throughThe team at Trillium Health Partners (THP) has worked to
identify that streamlining the process in their ED and focusing
on their Door-to-ECG time was a priority in order to meet the
target. Working closely with the ED, a QI initiative was put in
place to streamline this process. The initiative has been a
critical success factor in THP's consistently high performance
on this indicator.

For further information on these initiatives, please contact THP's Hospital Administrator Robin Horodyski <u>robin.horodyski@thp.ca</u>

NIAGARA HEALTH SYSTEM		
INITIATIVES	DESCRIPTION	
Supporting PCI Center Through a Focus on Door-in- Door-Out Initiatives	The team at Niagara Health System (NHS) is working diligently on their Door-In-Door-Out times and ultimately supporting Hamilton Health Sciences (HHS) indicator targets for STEMI with some notable efforts on the following initiatives: collaboration between EMS and ED leadership to establish an alternate dispatch protocol; a parallel activation protocol, in which an ED physician can call an EMS contact to discuss the case; and in the future, looking into simulation work to help the team identify factors that lead to delayed times. <i>For further information on these initiatives, please contact NHS</i> <i>Hospital Administrator Jill Randall jill.randall@niagarahealth.on.ca</i>	