## National Quality Improvement Conference

# Early Intervention for Post-Discharge Patients with Acute Myocardial Infarction (AMI)

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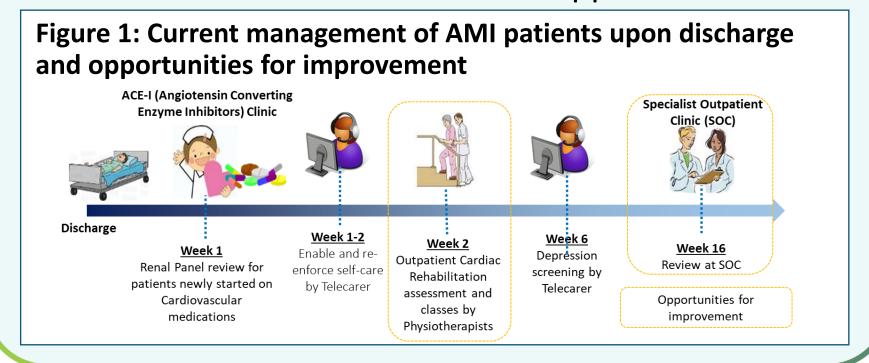


### **Problem Statement**

Timeliness and uptake of health services are crucial drivers for AMI patient outcomes. Outpatient cardiac rehabilitation programme (CRP) is integral to AMI recovery and prevention, but CRP enrolment rates have remained suboptimal at 27.3%. Long lead time to Specialist Outpatient Clinic (SOC) review meant increased probability of unplanned readmissions before the first SOC appointment.

### **Potential Solutions**

- Schedule patients for earlier reviews within 2 weeks of discharge
  - Physical review and examination
  - Optimisation of medicine
  - Encourage outpatient CRP enrolment + prescription
    of home exercise + Same day CRP assessment
  - Educate patient on post AMI self management



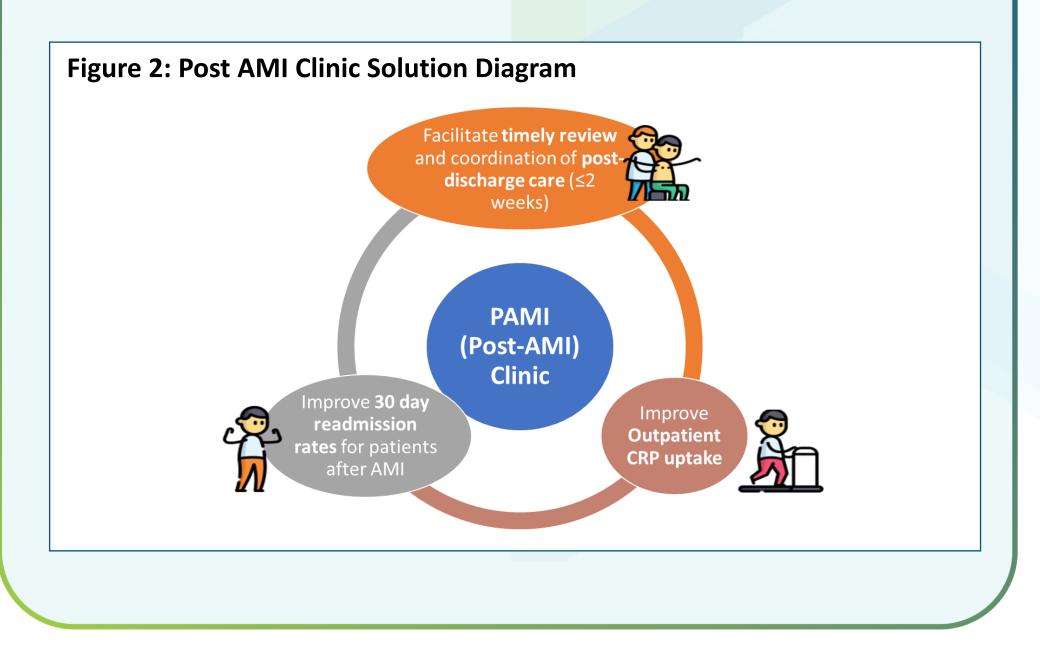
## **Project Aim**

Improve 30 day readmission rates for AMI patients from <u>17.1% to 12.0%</u> by implementing early patient reviews (within 14 days post-discharge). The team also aims to increase awareness and enrolment opportunities for CRP.

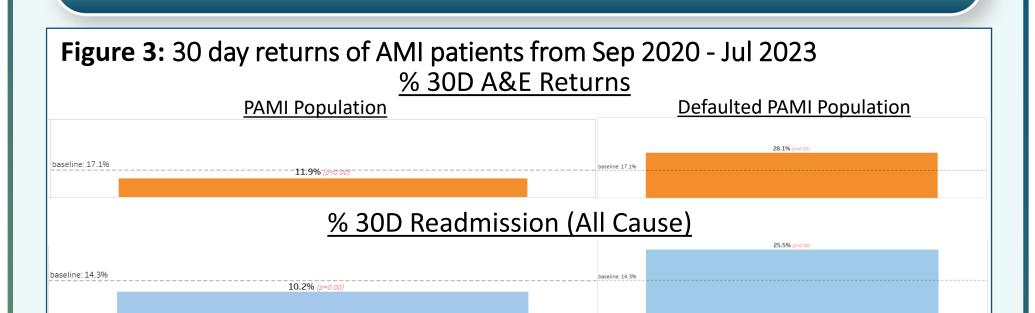




Increase awareness & enrolment opportunities for CRP

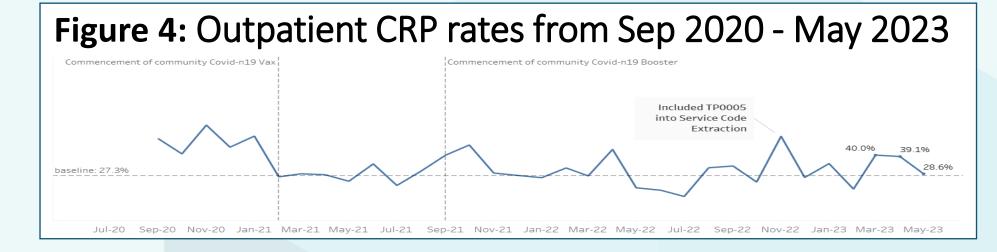


#### **Outcomes & Impacts**



Through multiple PDSA cycles, the team identified that current number of clinic slots resulted in more than 14 days lead time. Having a long lead time would reduce the session's effectiveness. The team successfully implemented interventions highlighted in **Figure 5** to reduce PAMI lead time to maintain its effectiveness.

The team learnt that it is important to identify root causes contributing to long lead time. Hence, crafting targeted interventions are needed to effectively reduce lead time of our PAMI sessions. The group that attended PAMI clinic showed significant improvement in 30-day A&E return rates (11.9%, p=0.00\*) and 30-day all-cause readmissions (10.2%, p=0.00\*) when compared to baseline rates of 17.1% and 14.3% respectively. The defaulted group had poorer outcomes than baseline rates (Figure 3).



The team is also able to ensure a consistently higher than baseline rates for outpatient CRP enrolment (Figure 4) for AMI patients with an estimated increase of 5%