# National **Quality Improvement Conference**

**Integrated MSK Care – Rapid Assessment and Physiotherapy for Patients In** NeeD (RAPID)

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### **Problem Statement**

In Singapore, Musculoskeletal (MSK) disorder is the top cause (24.3%) of healthy life lost to disability in 2019<sup>1</sup>.

Early and prompt physiotherapy has been effective<sup>2-3</sup> and prioritised in primary healthcare for its benefits for MSK disorders in the UK<sup>4-5</sup>.

## **Potential Solutions**



Standardise care by developing clinical protocols:

Clinical care

Implemented in phases since October 2020

## **T**rain

Train our polyclinic physiotherapists and therapist assistants to accurately stratify and escalate with reference to protocols.

However, currently in Singapore, there is:

- No standardised clinical protocol for providing prompt MSK and physiotherapy care.
- No data to show the effectiveness of prompt physiotherapy care that benefit patients.

## **Project Aim**

1. To improve early access to physiotherapy care (within 0-2 weeks) to improve patient's:





1. Pain

2. Function

3. Anxiety and

Depression

2. To develop a sustainable system to allow patients with MSK conditions early access to physiotherapy.

## Lessons Learnt

- **Escalation and referral**  $\bullet$ criteria
- Outcome measures

## **A**ttain Community Partnership

Collaborate with our community partners and create referral pathways for further holistic care for our patients.

# Track

Compare RAPID and Non-RAPID pain, functional and anxiety and depression scores.

Continually review patients' response and process through PDSA cycles to better meet system and patient needs.

### **Outcomes & Impacts**

RAPID is now available in 6 NHG Polyclinics, from the initial 2. We also see an increased uptake of RAPID patients from FY19 to FY21. RAPID

**NON RAPID** 

**Non-RAPID** 

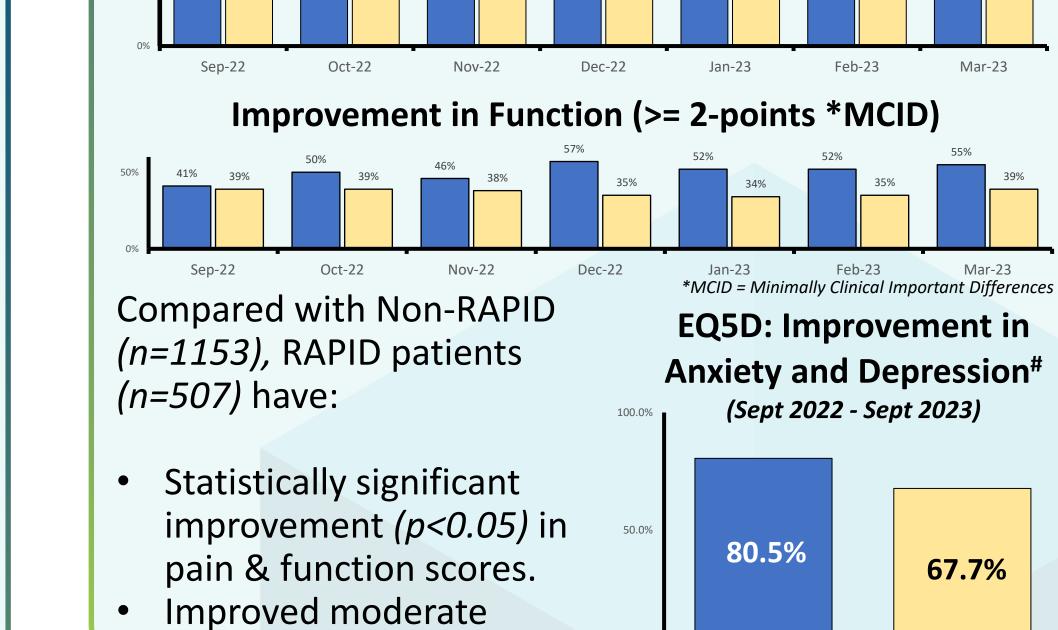
Improvement in Pain Score (>= 2-points \*MCID) 8176

Early access to physiotherapy in primary care through RAPID has shown patient benefits in:

- 1. Reducing Pain
- Improving Function
- 3. Improving moderate/severe anxiety & depression

**Better optimisation of primary healthcare** resources requires continuous engagement with community service providers.

Polyclinics can successfully manage patients with moderate/complex MSK needs without need to go to hospital, while simple MSK conditions can be managed in the community.



anxiety/depression scores.

<sup>#</sup>Analysing those with at least moderate severity anxiety and depression or worse; n=46, 78 (RAPID vs Non-RAPID).

RAPID

al, Physical Therapy Referral from primary care for acute back pain with sciatica: a randomized controlled trial, Epub 2020 Oct 6

nent of musculoskeletal disorders and effects on patient outcomes: A syste port TE, et al. Journal of Orthopaedic & Sports Physical Therapy Feb 2016

loi.ora/10.1080/09638288.2019