



Project Title

1 Hour Is All It Takes

Project Lead and Members

Project Lead: Koh Hui An

Project Members: Tristan Liaw, Daffodil Lim, Tan Li Yi, Kris Tan, Lim Kian Chong

Organisation(s) Involved

Ng Teng Fong General Hospital

Healthcare Family Group(s) Involved in this Project

Allied Health

Applicable Specialty or Discipline

Physiotherapy

Project Period

Start date: June 2022

Completed date: December 2022

Aims

A quality improvement project was conducted to identify probable solutions to improve the clinical effectiveness of NTFGH's CRP In a trial period of six months, the aim is to achieve a higher weekly PA participation in post MI patients greater than 764 METmin which is the post programme outcome at conventional CRP

Background

See poster appended/below

Methods

See poster appended/ below



Results

See poster appended/ below

Lessons Learnt

It is necessary to observe the receiver's response to the implementation and to review

the content and structure across various stages Secondly, the feedback and

suggestions obtained from stakeholders further contributes to the fine tuning of a

project With targeted and timely adjustments made along the way, optimal

effectiveness can be achieved

Conclusion

See poster appended/ below

Project Category

Care & Process Redesign

Value Based Care, Functional Outcome

Care Continuum

Rehabilitative Care

Keywords

Cardiac Rehabilitation Programme

Name and Email of Project Contact Person(s)

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1HOURIS ALLIT TAKES

SAFETY QUALITY **PATIENT EXPERIENCE** **PRODUCTIVITY**

COST

KOH HUI AN, TRISTAN LIAW, DAFFODIL LIM, TAN LI YI, KRIS TAN, LIM KIAN CHONG

Problem, Aim

Problem & Opportunity for Improvement

A data analysis conducted between January to May 2022 showed that the attendance of the conventional exercise-based Cardiac Rehabilitation Programme (CRP) at Ng Teng Fong General Hospital (NTFGH) has demonstrated improvement in physical activity (PA) participation in patients after a myocardial infarction (MI). With studies showing an inversed dose response relationship between PA participation and cardiovascular disease mortality, greater cardio-protective benefits with more time spent physically active is suggested.

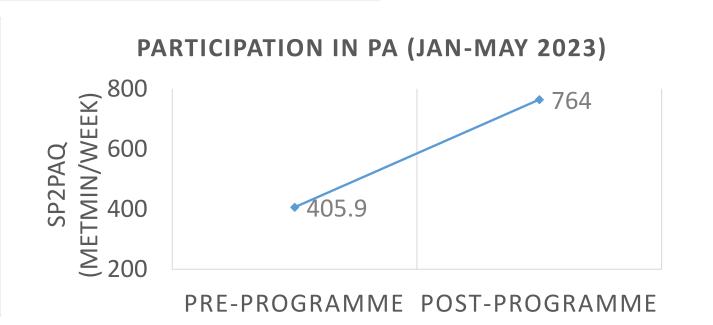
Aim

With that, a quality improvement project was conducted to identify probable solutions to improve the clinical effectiveness of NTFGH's CRP. In a trial period of six months, the aim is to achieve a higher weekly PA participation in post MI patients greater than 764 METmin, which is the post-programme outcome at conventional CRP.

Establish Measures

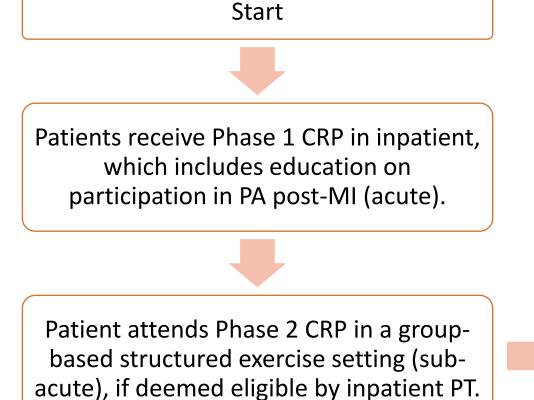
Outcome measure and performance before intervention

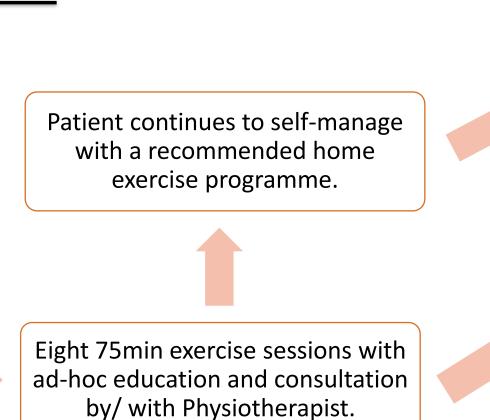
Participation in PA PA participation in pre and post attendance of CRP have been measured with a Singapore version of the Physical Activity Questionnaire (Sp2PAQ), which captures time and energy expenditure of various types of PA performed by an individual. It considers all activities in which the person spends at least 10minutes on in a usual week, such as structured exercises, time spent walking or cycling when travelling between places and household chores.

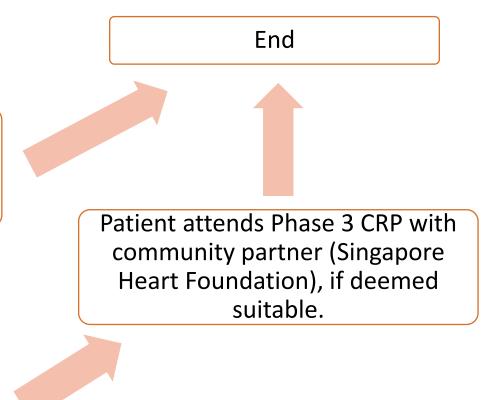


Analyse Problem

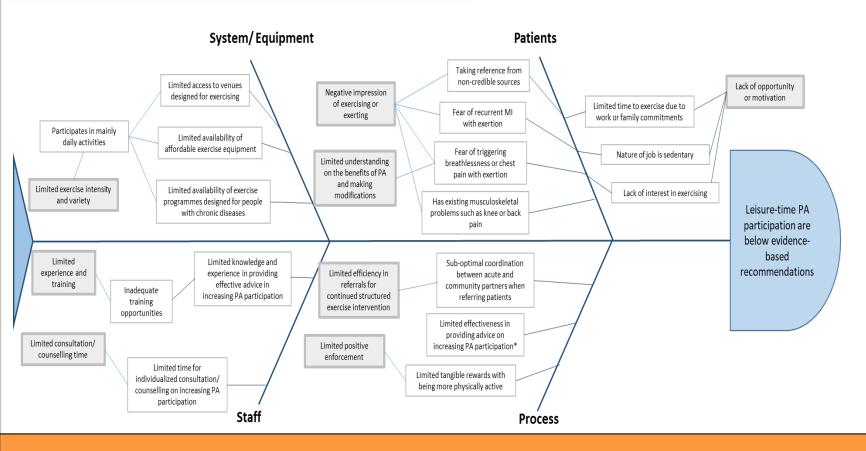
Process before intervention



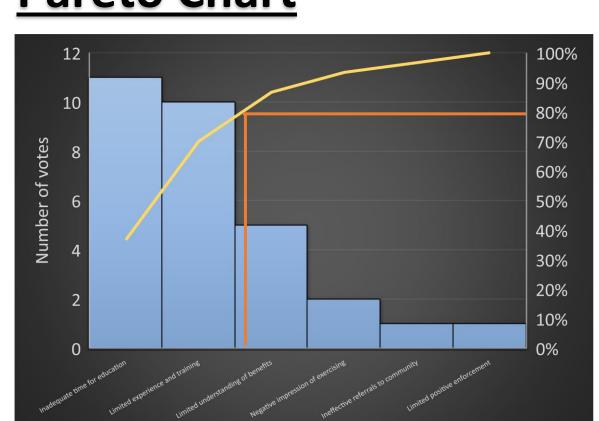




Probable root causes

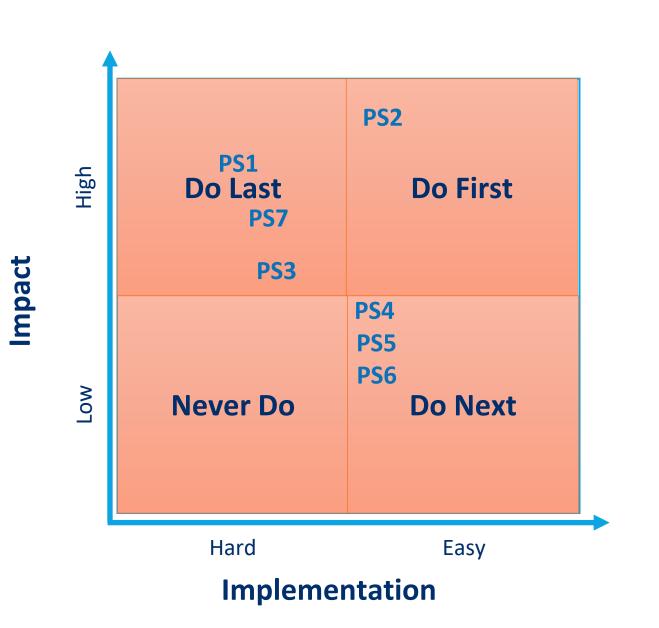






Select Changes

Root Causes	Potential Solutions	
Inadequate opportunities for individualized consultation/ education during CRP	1	Reduce number of patients per exercise class.
	2	Offer additional education component (additional sessions).
	3	Set aside two 15min for education/consultation segments during mid and end of the eight session CRP.
	4	Engage physiotherapy students in conducting education/consultation segment.
Inadequate training/ experience of staff	5	Create goal setting template (patient education booklet) for physiotherapists to refer to during CRP.
	6	Have a check box to remind physiotherapist to reinforce on importance of increasing physical activity.
	7	Develop a training programme for physiotherapists to learn from seniors with more experience and have received training in behavioral changing

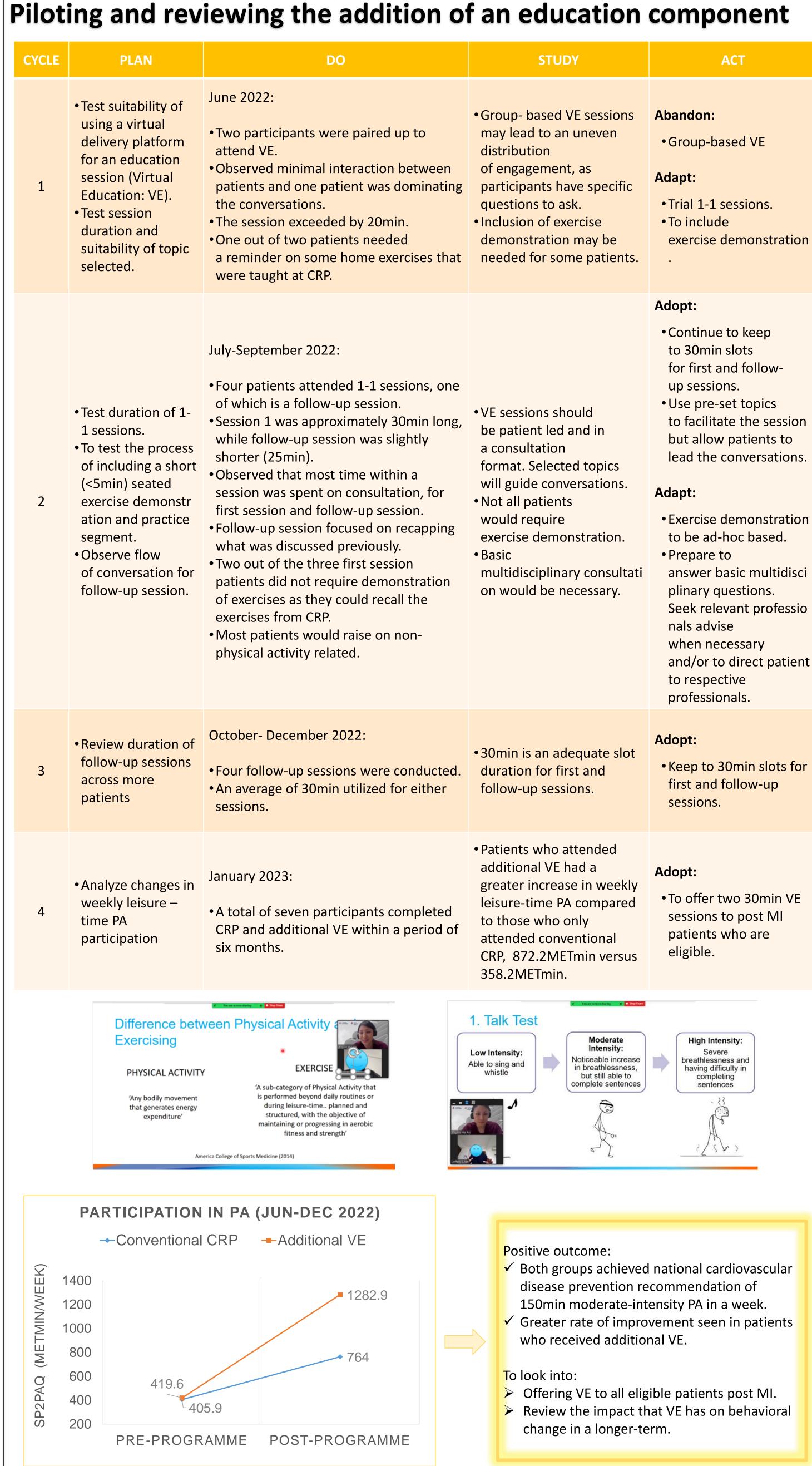


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strategies.



Test & Implement Changes



Spread Changes, Learning Points

As the journey of post-MI patients includes encounters across various disciplines, the importance of attending CRP and VE can be enforced by other healthcare professionals. Additionally, the use of VE may be extended to other Physiotherapist-led chronic disease programmes with the intention of promoting benefits of PA and facilitating behavioral change.

To increase enrolment into VE, CRP Physiotherapists will be the leaders in roping in fellow physiotherapists and other disciplines to spread the impact of this additional component. This may be done through sharing of experience and the positive outcome by CRP Physiotherapists with stakeholders. Furthermore, existing 'Health Champions' who are longer term CRP attending patients, would be essential in influencing the others into who are living with the same condition to attend VE.

To conclude, it is necessary to observe the receiver's response to the implementation and to review the content and structure across various stages. Secondly, the feedback and suggestions obtained from stakeholders further contributes to the fine tuning of a project. With targeted and timely adjustments made along the way, optimal effectiveness can be achieved.