# National Quality Improvement Conference

Adopting a Value Based Healthcare Implementation Matrix for use at Singapore General Hospital

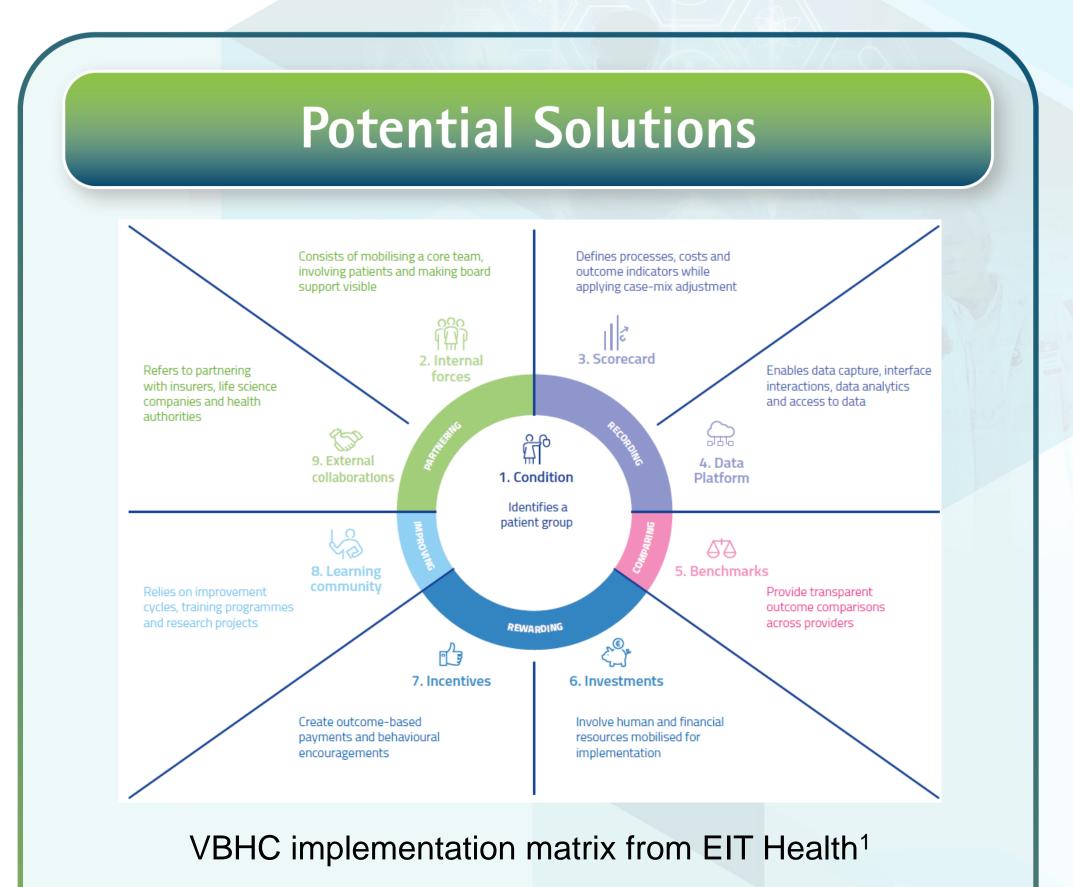
Chin De Zhi<sup>\*1</sup>, Dr Sia Wan Jin<sup>1</sup>, Fong Xuan Yun<sup>1</sup>, Dr Foo Chuan Kit<sup>2</sup>, Ho Tai Yun<sup>1</sup>, Dr Jayanti Visvanathan<sup>1</sup>, Liang Leer<sup>1</sup>, Dr Lv Yang<sup>1</sup>, Neena Antony<sup>1</sup>, Kalyn Oh<sup>1</sup>, Tan Wen Jia<sup>1</sup>, Dr Yeo Jia Xuan<sup>1</sup>, A/Prof Hairil Rizal bin Abdullah<sup>\*1,3</sup>

<sup>1</sup> Office of Value Based Healthcare, Singapore General Hospital (SGH),
<sup>2</sup> Medical Board, SGH, <sup>3</sup> Department of Anaesthesia, SGH
\* Corresponding author email: chin.de.zhi@sgh.com.sg,
hairil.rizal.abdullah@singhealth.com.sg



### Problem Statement

In 2023, the SGH Office of Value Based Healthcare (OVBH) was formed to take on an expanded scope of value-based healthcare (VBHC) strategies and assist clinical teams in adopting and implementing best-in-class practices.



To achieve this, SGH OVBH adopted a VBHC implementation matrix from the European Institute of Innovation and Technology (EIT) Health, a knowledge and innovation community.

#### **Project Aim**

To identify compatibility of existing VDC conditions with the VBHC implementation matrix as well as potential gaps in VDC implementation at SGH thus far.

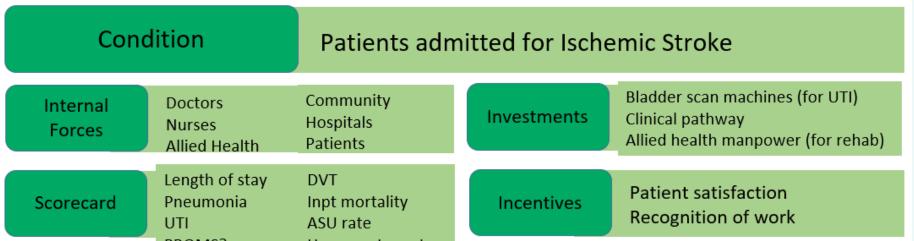
## Lessons Learnt

Two VDC conditions at SGH were mapped to the matrix to identify compatibility as well as potential gaps in implementation thus far:

- Elective total knee replacement (TKR)
- Ischemic stroke

#### **Outcomes & Impacts**





- 1. Most aspects of VBHC are in place
- 2. Gaps have been identified:
  - For elective TKR, to study impact of implant choice on outcomes and costs
  - For ischemic stroke, to consider incorporating PROMs and monitoring of longer-term outcomes
  - Adoption of standard sets (e.g. ICHOM) to facilitate international benchmarking
- 3. Consider local systems and practices when using matrix prospectively

	PROMS?	ASU rate Hyperacute mgt		Recognition of	WORK
Data Platform	eHIntS Department audi	EMR it data	Learning Community	ІСНОМ	Cross-institution sharing
Benchmark	Public Hospitals in Singapore International studies		External Collaboration	Nil at the moment – Consider community resources	
Total Knee Rep	lacement VBHC				
Condition		Elective Total Knee Replacement			
Internal Forces	Surgeons Allied Health	Community Hospitals Patients	Investments	Short Stay Ward Green lane to Re	
Scorecard	Length of stay Blood Transfusion Complication Readmission	Return to OT Inpatient Mortality SF36 Oxford Knee	Incentives	Patient satisfac Recognition of	
Data Platform	eHIntS EMR	Zedoc Tableau	Learning Community	ICHOM ERAS publication	Cross-institution sharing
Benchmark	Public Hospitals in Singapore International studies		External Collaboration	Insurers Value based contracting for implants	

<sup>1</sup>EIT Health, Implementing Value-Based Health Care in Europe: Handbook for Pioneers (Director: Gregory Katz), 2020.