

# Assessment of Implementation of Value Based Healthcare via an Implementation Toolkit: A Dual Institution Collaboration

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### Introduction

Singapore General Hospital (SGH) is a tertiary academic medical centre and the largest hospital in Singapore. Following Singapore's recent healthcare reform to focus on preventive health and early Linnean intervention, and a shift from a workload-based to a capitationbased model<sup>1</sup>, robust implementation of Value Based Healthcare (VBHC) has been identified by SGH as a key focus area.



Linnean Initiatief is a Dutch national network of leaders driving VBHC. It organizes network meetings to discuss the implementation of VBHC and has created knowledge products<sup>2</sup> to guide robust implementation. This includes a toolkit consisting of a VBHC Implementation Thermometer and an Implementation Guide. The toolkit has been mostly applied in the evaluation of a multidisciplinary team, and this poster explores a broader application as a systematic evaluation tool to assess SGH's current status from the perspective of an institution to identify areas of strengths and improvement.

# **Analysis**

#### **Domain Quick Scan Questions Areas of Strength Areas for Growth** 1. Are all healthcare professionals and support staff Increased representation of ✓ Monthly meeting with senior leadership to present updates **SGH VBC Council** involved sufficiently represented in our team? 4 patients 2. Are patients represented in the evaluation and SGH VBHC ✓ In-house template as a step-by-step guide to aid creation of improvement of care? 2 clear definitions & indicator Implementation Do multidisciplinary progress and improvement **Toolkit** meetings take place on a regular basis? 5 3.7 **Quality Improvement** ✓ Improvement plans in mind, multidisciplinary team involved 1. Is the care pathway well described and are health · Systematic implementation of **SGH VBHC** ✓ Care pathways described outcomes (Clinical and PROs) and casemix **PROMs** ✓ Measurable clinical outcomes data that cross domains & long-**Implementation** variables structurally measured for the medical Variation in level of **Toolkit** term outcomes condition? 4 understanding CARE PATHWAYS AND OUTCOMES Are individual health outcomes discussed with the **Quarterly Reporting** No integration to EMR ✓ Quarterly reporting of outcomes via Tableau dashboards patient (as part of shared decision making)? 2 3.7 3. To what extent are outcome data used to International ✓ Pilot to adopt ischaemic stroke ICHOM Standard Set (2024) continuously improve care in our team? 5 benchmarking 1. Do we know the costs and reimbursements Deeper understanding of ✓ Cost data available, represented in cost buckets **Understanding** related to the medical condition? 3 payments processes components of cost 2. To what extent is our team financially responsible? Identifying our cost drivers bucket Explore value-based payment Are there agreements with healthcare insurers on **Developing Health** value-based contracts or payments? 1 ✓ Working on how to structure existing financial data into a 2.3 **Economics** framework for VBHC analysis framework 1. To what extent are all healthcare providers in the More collaboration with external ✓ Quarterly benchmarking for select conditions with other providers **Cluster benchmarking** entire (internal and external) care chain part of our partners within cluster team? 4 ✓ Cross sharing of best practices Is the entire care chain jointly responsible for both COLLABORATIVE NETWORKS > ✓ Analysing single condition across primary to tertiary care continuum outcomes and costs? 3 **Cross-setting VBHC** Facilitated by data sharing agreement 3. To what extent are good practices shared outside analysis 3.7 ✓ Active collaboration with community partners for improvement projects our care chain to learn from? 4 1. To what extent is the philosophy of value-based Further rigour in statistical ✓ Good knowledge on QI methods & PDSA cycles **Quality Improvement** healthcare known to all healthcare professionals methods for academic ✓ In-depth analysis of root causes via case review and and support staff involved? 4 publication multidisciplinary discussion 2. Is there an integrated quality policy, which also EDUCATE, INNOVATE, includes outcomes & costs? 2 ✓ Adopting rigour in Implementation Science frameworks for **Implementation** 3. Are health outcomes and costs shared and/or initiatives Science 2.7 compared with regional or (inter)national parties? ✓ Multipronged approaches in improvement plans 1. Are outcome data unambiguously recorded at the Dashboards for patients Enterprise analytics platform to extract data from EMR **Analytics &** source? 5 ePROMs platform ✓ Quarterly reporting of data via Tableau **Dashboards** Are outcome data available in real time? 4 Robotic process automation to generate individual clinician 3. Is outcome data displayed in useful overviews for reports via Tableau <u>IT &</u> DATA > the team? 5 4.7 1. Is/are the leader(s) inspiring and have good Further empowerment of non-✓ Clinician leads have formal appointments, endorsed by leadership **Clinician Champions** communication skills? 4 clinicians (nurses, allied health ✓ Leads report progress of conditions at VBHC council meetings 2. Do all members of the multidisciplinary team know staff, patients) their roles and take responsibility? 4 ✓ Quarterly reports not punitive in nature, individual reports anonymised Improvement-focused 3. Is there a culture of enthusiasm and trust within ✓ Frequent sharing of good practices the team, of learning and improving safely Mindset 4.0 together? 4

## **Conclusions**

Linnean's Implementation Toolkit allows for a systematic and comprehensive assessment of an institution's progress in VBHC, highlighting both strengths and opportunities for improvement. This allows for subsequent conversation in the institution to develop strategic areas to focus on in the immediate, mid and long term. This framework also facilitates discussion between different institutions to compare different areas of strengths to promote sharing of best practices. This has shown broader applicability of Linnean's toolkit as a versatile framework that can be applied to various levels ranging from a multidisciplinary team to an organisation.

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