

## Overview

MCAP is a software application that applies proprietary evidence-based clinical criteria and powerful analytics to provide real-time clinical decision support data that quantifies the medical necessity of treatment at a given level of care. MCAP data are actionable and granular. MCAP is used as an audit tool to understand clinical and institutional inefficiencies affecting patient flow and is used on a concurrent basis to progress a patient's plan of care and improve care transitions.



## MCAP answers three questions:

- 1** Is the patient at the correct level of care?
- 2** If not, what is the most appropriate level of care?
- 3** If not, what is the reason for the continued stay?



## MCAP Improves Patient Flow

- Track the patient journey and service level needs as they change.
- Identify when movement to an alternative setting is appropriate and what that setting should be.
- Create efficiencies in the flow of patients across the healthcare system and accurately plan alternative settings of care.
- Identify bottlenecks to effective patient transfer.
- Track delays in progression of care, even when hospitalization is necessary.
- Identify subsequent settings of care using MCAP discharge screens. If such a setting does not exist or the change does not occur, a reason is selected to show why the change of setting cannot be done.

### MCAP for Daily Use

When the analytics are obtained through use as an embedded system within a facility, the MCAP System enables concurrent review including pre-screening admissions, determining when a patient should be discharged or moved to an alternative level of care and what that level should be. Information on readmissions and quality indicators can also be collected during the process of review.

### MCAP for a Diagnostic

When the analytics derived from MCAP are collected as a Diagnostic during a Patient Appropriateness Review, certified clinicians complete the assessments in MCAP. The diagnostic reviews admissions, readmissions, and continuing days of stay. MCAP reviews support acute and community based services for medical-surgical, behavioural health and substance abuse services.

### Introduction

The MCAP Solution is an evidence-based tool that identifies if a patient is cared for at the correct level of acuity at the time of assessment. The tool identifies internal delays which are occasioned by delays inherent in the acute setting; it identifies external delays which are outside the control of the acute hospital. MCAP identifies delays to discharge and individual patient journeys. It identifies themes and areas where resource may be better placed to affect high-quality care.

## MCAP Highlights

### Medical-Surgical Criteria Sets

- Includes 58 medical-surgical criteria sets
- Cover 30 separate levels of care
- Includes 8 sets focused on rehabilitation

### Mental Health Criteria Sets

- Includes 54 mental health criteria sets
- Cover 14 separate levels of care
- 16 sets focused on substance use disorder

### A Comprehensive Solution

MCAP is a comprehensive solution accommodating co-occurring conditions and covering all of a patient's medical-surgical and mental health secondary care needs

### Cloud Based

MCAP is provided as a SaaS solution that will work on any device and integrates with electronic medical records



### INAPPROPRIATE BED OCCUPANCY REDUCED BY 29%

Use of MCAP data increased capacity equivalent to 203 beds for a 700 bed organization due to fewer admissions and shorter length of stay.



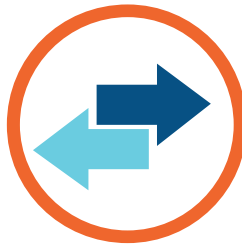
### INAPPROPRIATE ADMISSIONS REDUCED BY 25%

MCAP users observed their overall inappropriate admission rate decline by 25% in a 6-month period.



### REDUCTION IN DELAYS SAVED 35 BED NIGHTS

Inside a 24 bed ward, reduction in delays was estimated to save 35 bed nights within a 3-month period.



### 10% REDUCTION IN TRANSFER DELAYS

Reduced the amount of delays in transfer to alternative levels of care by 10% in a 6 month period.

*“ We showed that MCAP, combined with quality improvement methodology, is an effective tool to help ensure patients receive the appropriate level of care in the correct environment at the correct time and can be used to improve inpatient flow. ”*

**Future Healthcare Journal,**  
Royal College of Physicians

### About VitalHub

VitalHub develops mission-critical technology for Health and Human Services providers in the Mental Health (Child through Adult), Long Term Care, Community Health Service, Home Health, Social Service and Acute Care sectors. VitalHub technologies include Blockchain, Mobile, Patient Flow, Web-Based Assessment, and Electronic Health Record solutions.

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