

Hamilton Health Sciences	Critical Care Information System – Privacy
Title: P5- List of Data Holdings and P7- Statements of Purpose for Data Holdings Containing Personal Health Information	
Posting Date: July 7, 2014	
Approved By: Mary Wall, Director, Privacy and Freedom of Information (FOI), HHS; Donna Thomson, Executive Director, CritiCall Ontario	
Date of Initial Approval: June 24, 2014	Date of Last Review: September 2016
Date of Next Review: June 2017	

Version History			
Version No.	Date	Summary of Change	Changed By
1.1	July 10, 2015	Updated data element list	Christine Moon, CritiCall Privacy Lead
1.1	Dec. 21, 2015	Updated data element list	Christine Moon, CritiCall Privacy Lead
1.2	September 28, 2016	None	Mary Wall, Director Privacy and FOI HHS
1.2	November 23, 2016	Added “Applies to” section and footnote with definition of agent	Amanda M. Cramm, Privacy Specialist

Applies To:

This policy and procedures applies to all Hamilton Health Sciences (HHS)/CritiCall Ontario (CritiCall) agents¹ who have Critical Care Information System (CCIS) job-related duties that require them to review, development or manage the list of Data Holdings and the Statements of Purpose for Data Holdings which contain personal health information (PHI).

¹ Agents may be employees, consultants, contracted workers, vendors or any other representative of the HHS/CritiCall and act on behalf of HHS/CritiCall for the purpose of the HHS/CritiCall in relation to CCIS and not for their own purpose with respect to PHI. Agents may or may not have a contractual agreement with HHS/CritiCall. This applies, whether or not the agent has the authority to bind the prescribed person, whether or not the agent is employed by the prescribed person or whether or not the agent is being remunerated by the prescribed person

Critical Care Information System Data Holding and Statement of Purpose for the Data Holding

The Critical Care Information System (CCIS) data holding is comprised of standard critical care data elements entered into the CCIS by authorized individuals employed by critical care units in participating Ontario hospitals. The purpose of the CCIS data holding is to enable analysis and statistical reporting of resource requirements, utilization and capacity in relation to patient acuity to enable evidenced based decision making to support system-wide capacity planning and targeted performance improvement initiatives. Data collected within the CCIS is limited to that which is necessary to fulfill the above purpose. The following is a list of the data elements contained within the data holding in respect of the CCIS as well as a statement of purpose for the data holding.

Statements of Purpose for CCIS Data Elements		
CCIS Data Element Group	Data Elements (Current)	Purpose
Patient Demographic Information	Med. Record Number (MRN) Name (first,middle, last) Year, month of birth and date of birth Gender Health card number Health card type Health card version code Age	To ensure that the correct patient is selected when admitting a critical care patient into the system and when updating other CCIS data fields. To enable several decision support benefits, such as assessing the effectiveness, efficacy and utilization of interventions on health outcomes for patients or assisting with individualized patient triage, transfer and discharge planning.
Hospital Information	LHIN Code LHIN Corporation Code Corporation Name Site Code Site Name ICU Code ICU Name ICU Type ICU Level Patient De-Identity ID	To provide LHIN, hospital and unit level information related to critical care admissions.

<p>Admission/Discharge Data</p>	<p>Hospital Admission Date Hospital Admission Time Hospital Admission Date Time ICU Admission Date ICU Admission Time ICU Admission Date Time ICU Discharge Date ICU Discharge Time ICU Discharge Date Time Discharge Destination</p>	<p>To provide information about hospital length of stay, critical care unit length of stay.</p>
<p>Clinical Data</p>	<p>Basic Monitoring Ventilation Historical Ventilation Central Venous Line Arterial Line CVL or Arterial Line Historical Intravenous Inotropic/Vasoactive Medication Inotropic Vasoactive Historical Other Intervenuous Medication Intracranial Pressure Monitor Dialysis Extracorporeal Membrane Oxygenation Intra Aortic Balloon Pump Other Interventions Within this Unit Interventions Outside this Unit NEMS</p>	<p>To provide information about the various clinical supports and interventions required by each critical care patient; data is used to calculate nursing workload (the Nine Equivalents of Nursing Manpower)</p>
<p>Awaiting Transfer</p>	<p>Awaiting Transfer Discharge Start Date Time Awaiting Transfer Discharge Cancel Date Time (Note: Awaiting Transfer Discharge Cancel Date Time is only populated if the awaiting transfer is cancelled.) Awaiting Transfer Discharge Reason Awaiting Transfer Discharge Cancellation</p>	<p>To provide information about the discharge process including the time from readiness for discharge to actual discharge; related reasons</p>

<p>MODS</p>	<p>Date Of MODS MODS Submission Date Time MODS Haematologic MODS Hepatic MODS Renal MODS Pressure Adjusted Heart Rate MODS Central Venous Pressure* MODS Mean Arterial Pressure* MODS Heart Rate* MODS Glasgow Coma Score MODS GCS Eyes* MODS GCS Verbal* MODS GCS Motor* MODS Respiratory Ratio MODSPO2 MODSFIO2 MOD Score</p>	<p>To provide measurement of the severity of the multiple organ dysfunction syndrome as an outcome of critical illness (tracking measurements of six major systems in the body – Haematological, Hepatic, Renal, Cardiovascular, Neurological)</p>
<p>PIM2/PELOD</p>	<p>Date Of PIM2 PIM2 Submission Date time PIM2 Elective Admission PIM2 Recovery Post Procedure PIM2 Cardiac Bypass PIM2 Diagnosis PIM2 Pupils Response To Bright Light PIM2 Mechanical Ventilation PIM2 Systolic Blood Pressure PIM2 Base Excess PIM2FiO2 PIM2PaO2 PIM2 Score Date Of PELOD PELOD Submission Date time PELOD Glasgow Coma Score PELOD GCS Eyes* PELOD GCS Verbal* PELOD GCS Motor* PELOD Pupillary Reaction PELOD Heart Rate PELOD Systolic Blood Pressure PELOD Renal Creatinine PELOD Respiratory Ratio</p>	<p>Paediatric Logistic Organ Dysfunction Score is collected to provide a description of acuity for all patients admitted to a paediatric critical care unit; Paediatric Index of Mortality Score (PIM 2) is a predictor of mortality for all patients admitted to a paediatric critical care unit</p>

	<p>PELOD PaO2 PELOD FiO2 PELOD PaCO2 PELOD Mechanical Ventilation PELOD Haematological White Blood Cell Count PELOD Haematological Platelets PELOD Hepatic Aspartate Transaminase PELOD Hepatic International Normalized Ratio PELOD Score</p>	
Bed Availability	<p>Available Beds CCIS Patients Not Occupied Beds Occupancy Rate (%) Not Available Beds Not Staffed Outpatients Reserved Infection Control Shortage of Equipment Environment Last Updated CC Bed Inventory Vented Bed Inventory</p>	<p>To provide information about bed information including availability, demand, occupied status, funded beds, etc.</p>
Critical Care Response Team	<p>Seen By CCRT Seen By MD Seen By RN Seen By RT Notified By Primary Reason Admitting Service ABC Triage CCRT Calling Criteria Met Historical (Prior to November 11, 2008) CCRT Calling Criteria Met Timeliness Historical (Prior to November 11, 2008)</p>	<p>Provides data related to patients not located in the critical care unit but who are seen by the Critical Care Response Team (CCRT)</p>

	<p>Date Time Patient Met CCRT Calling Criteria (New Consult) CCRT Notified Date Time (New Consult) Code Blue Yes No (New Consult) Primary Event (NewConsult) Historical Consult Type Patient Reassessed CCRT MD Notified CCRT MD Notified Time Time Last Team Member Left CCRT Call Outcomes End Of Life Discussion Initiated Yes No EndOfLifeDiscussionInitiated ICU Request Date Time No Consult Audit Date Historical (Prior to November 11, 2008) Time Period Of Primary Event Historical (Prior to November 11, 2008) Code Blue Yes No (No Consult Audit) Primary Event (No Consult Audit)</p> <p>Date Time Patient Met CCRT Calling Criteria (No Consult Audit) Date Time Of Primary Event No Consult Audit Submission Date Time Unplanned ICU Admission Time With Patient After ICU Admission Hours Time With Patient After ICU Admission Minutes</p>	
<p>Outcomes</p>	<p>Admitted With Existing Central Venous Line Admitted With Existing Central Line Infection VAP Incident Date VAP Submission Date Time</p>	<p>Provides data about outcomes of critical care including infection rates and other incidents</p>

	VAP Incident Entered In Error Date Time VAP Counter CLI Incident Date CLI Submission Date Time CLI Incident Entered In Error Date Time CLI Counter Unplanned Extubation Occurred Date Unplanned Extubation Submission Date Time Unplanned Extubation Incident Entered In Error Date Time Unplanned Extubation Counter	
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GLOSSARY	
Terms Used in this Document	Description
Data Element	A category used to identify a data field.
Data Holding	A full collection of data, comprised of Data Elements, relied upon to support specific business purposes.
Data Source	The person/organization from whom a data holding is collected.
Participating Hospital	A hospital that currently collects data and enters it into CCIS.

Summary:	The Statement of Purpose of the CCIS data holding describes the purpose of the data holding, the PHI it contains, the sources of the PHI, and the need for the PHI in relation to the identified purpose.
Reference Documents:	MANUAL FOR THE REVIEW AND APPROVAL OF PRESCRIBED PERSONS AND PRESCRIBED ENTITIES Information Privacy Commissioner/Ontario
Keyword Assignment:	Data Element, Data Set, database, purpose, statement
Policy Developed By:	Christine Moon, CritiCall Privacy Lead
In Consultation With:	Donna Thomson, Executive Director, CritiCall Mary Bedek, Director, Privacy and Freedom of Information (FOI), HHS Swapna Petrelli, Associate Consultant, Healthtech Consultants Karen Waite, Associate Vice President, Healthtech Consultants