



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: Legal Counsel and Chief Privacy Officer, HHS; Isabel Hayward, Executive

Director, CritiCall Ontario

Date of Initial Approval: June 24, 2014 Date of Last Review: June 22, 2023

Date of Next Review: June 2024

Version History			
Version No.	Date	Summary of Change	Changed By
1.1	July 10,	Updated data element list	Christine Moon, CritiCall
	2015		Privacy Lead
1.2	Dec. 21,	Updated data element list	Christine Moon, CritiCall
	2015		Privacy Lead
1.3	September	None	Mary Wall, Director
	28, 2016		Privacy and FOI HHS
1.4	November	Added "Applies to" section and	Amanda M. Cramm,
	23, 2016	footnote with definition of agent	Privacy Specialist
1.5	June 20,	Data Element List updated	Christine Moon, CritiCall
	2017		Privacy Lead
1.6	September	Updated the CCIS Data Elements List	Lori Sutherland, CritiCall
	14, 2021		Privacy Lead
1.7	Feb 17,	Updated the CCIS Data Elements List	Lori Sutherland, CritiCall
	2022	(COVID Primary and Incidental)	Privacy Lead
1.8	October 10,	Updated Approver (CPO) and added	Stephanie Piper, CritiCall
	2023	NICU LSI, Pandemic and CCIS 2.0	Privacy Lead
		data elements	

Applies To:

This policy and procedure applies to all Hamilton Health Sciences (HHS)/CritiCall Ontario (CritiCall)





employees and any other agents of HHS/CritiCall¹ who have Critical Care Information System (CCIS) jobrelated duties that require them to review, develop, or manage the list of Data Holdings and the Statements of Purpose for Data Holdings which contain personal health information (PHI).

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 corresponding statements of purpose for each data element group within the data holding.

The Statements of Purpose sets out the need for the PHI in relation to the purpose.

Statements of Purpose for CCIS Data Elements		
CCIS Data Element Group	Data Elements (Current)	Purpose
Patient Demographic Information	 Medical Record Number (MRN) Name (first, middle, last) Year, month of birth and date of birth Sex Health card number Health card type Health Card version Code Age Address Phone Number 	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

¹Agents may be employees, consultants, contracted workers, vendors or any other person who acts on behalf of HHS/CritiCall in respect of personal health information for the purposes of HHS/CritiCall and not the agent's own purposes, whether or not the agent has the authority to bind HHS/CritiCall and whether or not the agent is employed by the HHS/CritiCall and whether or not the agent is being remunerated.



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		individualized patient triage,
		transfer and discharge planning.
Hospital Information	LHIN Code	To provide LHIN/Region, hospital
	LHIN Name	and unit level information related
	 Corporation Code 	to critical care admissions.
	 Corporation Name 	
	 Site Code 	
	 Site Name 	
	 ICU Code 	
	 ICU Name 	
	 ICU Type 	
	 ICU Level 	
	 Patient De-Identity ID 	
Admission/Discharge	Hospital Admission Date	To provide information about
Data	Time	hospital length of stay, critical
	 ICU Admission Date Time 	care unit length of stay.
	 ICU Discharge Date Time 	
	 Discharge Destination 	
	 ICU Admission Source 	
	 Transferred From (If the 	
	Patient's Admission source is	
	not within the hospital)	
	 ICU Admission Diagnosis 	
	 Admitted to CCIS as a result 	
	of CCRT/PCCRT Assessment	
	 Admitted to the unit with an 	
	existing Central Venous Line	
	 Admitted to the unit with an 	
	existing Central Line Infection	
	Patient Category	
	Referring Physician Service	
	 Scheduled Surgery 	
	ICU Admission Scheduled (If	
	Surgery is scheduled)	
	Influenza Like Illness -	
	Admitted to the unit with	
	Influenza Like Illness - Lab	
	Confirmed Result	
	Committee Result	



- Influenza Like Illness Date of Lab Result
- Influenza Like Illness -Documentation Not Found
- Influenza Like Illness Suspected Influenza case - Lab Confirmed Result
- Influenza Like Illness Suspected Influenza case - Date of Lab Result
- Influenza Like Illness -Suspected Influenza case Documentation Not Found
- Respiratory Syncytial Virus -Admitted to the unit with
- Respiratory Syncytial Virus Lab Confirmed Result
- Respiratory Syncytial Virus Date of Lab Result
- Respiratory Syncytial Virus -Documentation Not Found
- Respiratory Syncytial Virus Suspected RSV case - Lab Confirmed Result
- Respiratory Syncytial Virus Suspected RSV case - Date of Lab Result
- Respiratory Syncytial Virus -Suspected RSV case
 Documentation Not Found
- Pandemic Information COVID-19
- Pandemic Information -Admitted to the unit with
- Pandemic Information Lab Confirmed Result (Primary)
- Pandemic Information Lab Confirmed Result (Incidental)
- Pandemic Information Lab Confirmed Result





	 Pandemic Information - Date of Lab Result Pandemic Information - Documentation Not Found Pandemic Information - Suspected case - Lab Confirmed Result Pandemic Information - Suspected case - Date of Lab Result Pandemic Information - Suspected case Documentation Not Found Transferred to (if Discharged to another hospital) CCRT/PCCRT to follow-up Reason why CCRT/PCCRT Follow-up not required Reason for Reverse Discharge Location of Reserved Patient Reservation Cancellation Date & Time Reservation Cancellation Reason
Clinical Data (LSI/NEMS)	 Basic Monitoring Ventilation Historical Ventilation: Mechanical Invasive Ventilation, Mechanical Non-Invasive Ventilation (High Flow Nasal Cannula, BiPAP, CPAP), Supplementary Ventilatory Care, No Ventilation Proning Central Venous Line Arterial Line CVL or Arterial Line Historical 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).





	 Intravenous Inotropic/Vasoactive Medication Inotropic Vasoactive Historical Other Intervenous Medication Intracranial Pressure Monitor Dialysis Dialysis Type: Intermittent Dialysis/Continuous Renal Replacement Therapy Extracorporeal Membrane Oxygenation ECMO Type: Veno- Venous/Veno-Arterial Intra Aortic Balloon Pump Other Interventions Within this Unit Interventions Outside this Unit 	
AMS	 NEMS Number of Different Antibacterial Therapies Number of Different Antifungal Therapies Incident of Positive C.Diff Result Collected On 	To provide information about the utilization of antibacterial and antimicrobial therapies in critical care units.
Awaiting Transfer	 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 Reason Awaiting Transfer Discharge Cancellation 	To provide information about the discharge process including the time from readiness for discharge to actual discharge; related reasons.



MODS	Date Of MODS	To provide measurement of the
INIODS		severity of the multiple organ
	MODS Submission Date Time MODS Hapmatalagia	dysfunction syndrome as an
	MODS Haematologic MODS Hamatia	outcome of critical illness
	MODS Hepatic	(tracking measurements of six
	MODS Renal	major systems in the body –
	MODS Pressure Adjusted Heart	Hematological, Hepatic, Renal,
	Rate	Cardiovascular, Neurological).
	MODS Central Venous Pressure*	caratovascatar, recarologicar).
	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	
PIM2/PELOD	Date Of PIM2	Paediatric Logistic Organ
	 PIM2 Submission Date time 	Dysfunction Score is collected to
	 PIM2 Elective Admission 	provide a description of acuity for
	 PIM2 Recovery Post 	all patients admitted to a
	Procedure	paediatric critical care unit;
	 PIM2 Cardiac Bypass 	Paediatric Index of Mortality
	 PIM2 Diagnosis 	Score (PIM 2) is a predictor of
	 PIM2 Pupils Response to 	mortality for all patients admitted
	Bright Light	to a paediatric critical care unit.
	 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 	
	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	
NICU LSI	Date of Intervention Report	The Neonatal Intensive Care Unit Life
	 Monitoring (No continuous 	Support Intervention (NICU LSI) data
	monitoring, Continuous	reflects neonatal patient acuity and the associated nursing workload.
	monitoring, NAS scoring and	associated fluisling workload.
	management)	
	 Cardio-Respiratory Events 	
	Feeding (NPO,	
	Uncomplicated oral and/or	
	tube feeding, Complex	
	feeding or ostomy)	
	 Management of 	
	Hypoglycaemia	
	 Management of 	
	Hyperbilirubinemia (None,	
	Phototherapy lights, IVIG for	
	hyperbilirubinemia, Exchange	
	Transfusion)	
	Peripheral Intravenous LineCentral Line	





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	 Arterial Line Administration of Parental Nutrition Intravenous Medications Respiratory Support (No respiratory support, Oxygen and or supplementary support, non-invasive respiratory support, invasive mechanical ventilation) Blood Products (excluding IVIG and exchange transfusion) Interventions within the Unit (None, Palliative care, Intensive Parent/Family Education/Support, Single chest drain, >= 2 chest drains, Seizures, Intensive neurological management, Intensive pre/post operative management, Isolation, Dialysis) Interventions Outside of the Unit (None, Radiological (CT or MRI) Procedures outside 	
	or MRI), Procedures outside NICU, Transfer accompanied by unit staff)	
Bed Availability	Available Beds	To provide information about bed
	 Occupied Beds renamed to CCIS Patients Not Occupied Beds Occupancy Rate (%) Not Available Beds Not Staffed Outpatients Reserved Infection Control Shortage of Equipment 	information including availability, demand, occupied status, funded beds, etc.
	 Environment 	





	 Last Updated MOHLTC Bed Count renamed to CC Bed Inentory MOHLTC Vented Bed Count renamed to Vented Bed Inventory
Critical Care Response Team	 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) Date Time Patient Met CCRT Calling Criteria (New Consult) CCRT Notified Date Time (New Consult) CORD Blue Yes No (New Consult) Consult Type Patient Reassessed CCRT MD Notified CCRT MD Notified 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) 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 CCRT Reverse Discharge Date & Time CCRT Reason of Reverse Discharge CCRT Discharge Date & Time
	Patient is in an intensivist
Outcomes	 vAP Incident Date VAP Submission Date Time 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 CLI Counter





	Unplanned Extubation	
	Occurred Date	
	 Unplanned Extubation 	
	Submission Date Time	
	 Unplanned Extubation 	
	Incident Entered In Error	
	Date Time	
	 Unplanned Extubation 	
	Counter	
Paediatric Critical	 Type of Consult 	Provides data related to patients
Care Response Team	 PICU Discharge Date & Time 	not located in the critical care unit
	Unplanned	but who are seen by the
	 Date & Time PCCRT Notified 	Paediatric Critical Care Response
	 Notified By 	Team (CCRT).
	 Primary Reason for Call 	
	 Most Responsible Service 	
	• Ward	
	 PCCRT Calling Criteria first 	
	met: Airway Threat	
	 PCCRT Calling Criteria first 	
	met: Altered Perfusion	
	PCCRT Calling Criteria first	
	met: Apnoea	
	PCCRT Calling Criteria first	
	met: Bradycardia	
	 PCCRT Calling Criteria first 	
	met: Cyanosis	
	 PCCRT Calling Criteria first 	
	met:	
	Dec LoC	
	 PCCRT Calling Criteria first 	
	met: Desaturation	
	PCCRT Calling Criteria first	
	met: Hypotension	
	 PCCRT Calling Criteria first 	
	met: Resp Distress	
	 PCCRT Calling Criteria first 	
	met: Seizures	
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- PCCRT Calling Criteria first met: Tachycardia
- CCRT Calling Criteria first met: Tachypnoea
- CCRT Calling Criteria first met: Concern Not Identified Above
- Patient Seen by PCCRT :MD
- Patient Seen by PCCRT :RN
- Patient Seen by PCCRT :RT
- PCCRT MD Notified
- PCCRT MD Notified Date & Time
- Time last team member left Date & Time
- Time with Patient after PICU Admission
- N/PICU Request
- N/PICU Admit
- Interventions
- Limitations to Treatment
- PCCRT Call Outcomes
- Code Blue Called
- Time Spent
 Debriefing/Education
- Planned Review
- Area Covered By PCCRT
- When did the patient first show signs of deterioration?(PCCRT Calling Criteria first met)
- Event With No Prior Indication
- Documentation Not Found
- Primary Event
- Date and Time of Primary Event
- Most Responsible Service
- Outcome





PCCRT Reverse Discharge	
Date & Time	
 PCCRT Reason of Reverse 	
Discharge	
 PCCRT Discharge Date & 	
Time	
 Patient is in an intensivist 	
covered Critical Care Unit	

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 and Entities, Information Privacy Commissioner of Ontario.
Keyword Assignment:	Data Element, Data Set, database, purpose, statement
Policy Developed By:	Lori Sutherland, CritiCall Privacy Manager
In Consultation With:	Executive Director, CritiCall; Legal Counsel and Chief Privacy Officer, HHS; and CCIS Product Manager, CritiCall