



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: April 11, 2024

Date of Next Review: June 1, 2026

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	Lori Sutherland, CritiCall
	14, 2021	List	Privacy Lead
1.7	Feb 17,	Updated the CCIS Data Elements	Lori Sutherland, CritiCall
	2022	List (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	
1.9	December	Added source of data collection in	Stephanie Piper, CritiCall
	12, 2023	CCIS, updated logo	Privacy Lead, and Rosalyn
			Reid, CritiCall Privacy
			Manager

Applies To:





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. The data collected is populated by a hospital's Electronic Medical Record (EMR) or manually entered by hospital staff on the CCIS website and 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.

P5- List of Data Holdings and P7- Statements of Purpose for Data Holdings Containing PHI/ Version 1.9





		individualized patient triage,
		transfer and discharge planning.
Hospital Information	LHIN Code	To provide LHIN/Region, hospital
1103pital illiolillation	LHIN Name	and unit level information related
	Corporation Code	to critical care admissions.
	·	to critical care damissions.
	Corporation NameSite Code	
	• Site Name	
	• ICU Code	
	ICU Name ICU Tama	
	ICU Type	
	ICU Level Patient Bankharita IB	
Adminston /Disabases	Patient De-Identity ID	To provide information about
Admission/Discharge	Hospital Admission Date Time	To provide information about
Data	ICU Admission Date Time	hospital length of stay, critical
	ICU Discharge Date Time	care unit length of stay.
	Discharge Destination	
	ICU Admission Source	
	Transferred From (If the	
	Patient's Admission source is not	
	within the hospital)	
	ICU Admission Diagnosis Admission Diagnosis	
	Admitted to CCIS as a result of CCRT/DCCRT Assessment	
	CCRT/PCCRT Assessment	
	Admitted to the unit with an Admitted to the unit with an	
	existing Central Venous Line	
	Admitted to the unit with an Ovisting Control Line Infection	
	existing Central Line InfectionPatient Category	
	Referring Physician Service Schoduled Surgery	
	Scheduled SurgeryICU Admission Scheduled (If	
	Surgery is scheduled)	
	Influenza Like Illness (ILI) -	
	Admitted to the unit with	
	ILI - Confirmed Positive	
	Influenza Case	
	ILI - Date of Lab Result	
	- ILI Date of Lab Nesult	





- ILI Confirmed Negative Influenza Case – Date of Lab Result
- ILI Documentation Not Found
- ILI Suspected Influenza case -Lab Confirmed Result
- ILI Suspected Influenza case -Date of Lab Result
- ILI Suspected Influenza case Documentation Not Found
- Respiratory Syncytial Virus (RSV)
 Admitted to the unit with
- RSV Documentation Not Found
- RSV Confirmed Positive RSV Case - Lab Confirmed Result
- RSV Confirmed Negative RSV Case - Date of Lab Result
- RSV Specimen Sent to Lab Confirmed Positive RSV Case
- RSV Specimen Sent to Lab Confirmed Negative RSV Case
- RSV Specimen Sent to Lab Awaiting Lab Results
- SARS CoV-2 (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	
	Reason why CCRT/PCCRT Follow- up not required.	
	up not requiredReason for Reverse Discharge	
	Location of Reserved Patient	
	Reservation Cancellation Date &	
	Time	
	Reservation Date & Time	
	Reservation Cancellation Reason	
Clinical Data	Basic Monitoring	To provide information about the
Life Support	Ventilation Historical	various clinical supports and
Interventions/ Nine	Ventilation: Mechanical Invasive	interventions required by each
Equivalents of	Ventilation, Mechanical Non-	critical care patient; data is used
Nursing Manpower	Invasive Ventilation (High Flow	to calculate nursing workload (the
Score (LSI/NEMS)	Nasal Cannula, BiPAP, CPAP),	Nine Equivalents of Nursing
	Supplementary Ventilatory Care,	Manpower).
	No Ventilation	
	Proning	
	Central Venous Line	
	Arterial Line	
	CVL or Arterial Line Historical	
	 Intravenous 	
	Inotropic/Vasoactive Medication	
	Inotropic Vasoactive Historical	
	Other Intervenous Medication	
	Intracranial Pressure Monitor	
	Dialysis	
	Dialysis Type: Intermittent	
	Dialysis/Continuous Renal	
	Replacement Therapy	
	Extracorporeal Membrane Overgonation (FCMO)	
	Oxygenation (ECMO)	



		<u> </u>
Antimicrobial	 ECMO Type: Veno-Venous/Veno-Arterial Intra Aortic Balloon Pump Other Interventions Within this Unit Interventions Outside this Unit NEMS Number of Different 	To provide information about the
Stewardship (AMS)	 Antibacterial Therapies Number of Different Antifungal Therapies Incident of Positive C.Diff Result Collected On 	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.
Multiple Organ Dysfunction Syndrome (MODS)	 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 MODS PO2 	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 – Hematological, Hepatic, Renal, Cardiovascular, Neurological).





	MODS FiO2	
	MOD Score	
Paediatric Index of	Date Of PIM2	Paediatric Logistic Organ
Mortality Score (PIM	 PIM2 Submission Date time 	Dysfunction Score is collected to
2)/ Paediatric Logistic	PIM2 Elective Admission	provide a description of acuity for
Organ Dysfunction	 PIM2 Recovery Post Procedure 	all patients admitted to a
Score PELOD	 PIM2 Cardiac Bypass 	paediatric critical care unit;
	 PIM2 Diagnosis 	Paediatric Index of Mortality
	 PIM2 Pupils Response to Bright 	Score (PIM 2) is a predictor of
	Light	mortality for all patients admitted
	 PIM2 Mechanical Ventilation 	to a paediatric critical care unit.
	 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	





Neonatal Intensive Care Unit Life Support Intervention (NICU LSI)

- Date of Intervention Report
- Monitoring (No continuous monitoring, Continuous monitoring, NAS scoring and 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 Line
- Central Line
- Arterial Line
- Administration of Parental Nutrition
- Intravenous Medications
- Respiratory Support (No respiratory support, Oxygen and or supplementary support, noninvasive 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 NICU,

The Neonatal Intensive Care Unit Life Support Intervention (NICU LSI) data reflects neonatal patient acuity and the associated nursing workload.





	Transfer accompanied by weit	
	Transfer accompanied by unit staff)	
Bed Availability	Available Beds	To provide information about bed
Dea / Wandshiey	Occupied Beds renamed to CCIS	information including availability,
	Patients	demand, occupied status, funded
	Not Occupied Beds	beds, etc.
	Occupancy Rate (%)	2005, 000.
	Not Available Beds	
	Not Available Beds Not Staffed	
	OutpatientsReserved	
	Shortage of Equipment Fruitenment	
	Environment	
	Last Updated MOUNTG Bad Count represed to	
	MOHLTC Bed Count renamed to	
	CC Bed Inventory	
	MOHLTC Vented Bed Count	
	renamed to Vented Bed	
Critical Care	Inventory	Dravides data related to nationts
	Seen By CCRT Seen By MAD	Provides data related to patients not located in the critical care unit
Response Team (CCRT)	Seen By MD Seen By BN	but who are seen by the Critical
(CCKT)	Seen By RN Seen By RT	Care Response Team (CCRT).
	Seen By RT Notified B	Care Response ream (CCRT).
	Notified By	
	Primary Reason	
	Admitting Service	
	ABC Triage	
	CCRT Calling Criteria Met	
	Historical (Prior to November 11,	
	2008)	
	CCRT Calling Criteria Met Timelia and Historiaal (Prior to	
	Timeliness Historical (Prior to	
	November 11, 2008)	
	Date Time Patient Met CCRT Calling Criteria (New Consult)	
	Calling Criteria (New Consult)	
	CCRT Notified Date Time (New Consult)	
	Consult)	
	Code Blue Yes No (New Consult)	





- Primary Event (New Consult)
 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
- End Of Life Discussion Initiated
- 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 covered Critical Care Unit





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Outcomes	Ventilator Associated	Provides data about outcomes of
	Pneumonia (VAP) Incident Date	critical care including infection
	VAP Submission Date Time	rates and other incidents.
	VAP Incident Entered In Error	
	Date Time	
	VAP Counter	
	Central Line Infection (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 	
Paediatric Critical	Type of Consult	Provides data related to patients
Care Response Team	 PICU Discharge Date & Time 	not located in the critical care unit
Care Response Team (PCCRT)	PICU Discharge Date & TimeUnplanned	not located in the critical care unit but who are seen by the
=		
=	 Unplanned 	but who are seen by the
=	UnplannedDate & Time PCCRT Notified	but who are seen by the Paediatric Critical Care Response
=	UnplannedDate & Time PCCRT NotifiedNotified By	but who are seen by the Paediatric Critical Care Response
=	UnplannedDate & Time PCCRT NotifiedNotified ByPrimary Reason for Call	but who are seen by the Paediatric Critical Care Response
=	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service 	but who are seen by the Paediatric Critical Care Response
=	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service Ward 	but who are seen by the Paediatric Critical Care Response
=	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service Ward PCCRT Calling Criteria first met: 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service Ward PCCRT Calling Criteria first met: Airway Threat 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service Ward PCCRT Calling Criteria first met: Airway Threat PCCRT Calling Criteria first met: 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By Primary Reason for Call Most Responsible Service Ward PCCRT Calling Criteria first met: Airway Threat PCCRT Calling Criteria first met: Altered Perfusion 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By 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: 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By 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 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By 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: 	but who are seen by the Paediatric Critical Care Response
<u> </u>	 Unplanned Date & Time PCCRT Notified Notified By 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 	but who are seen by the Paediatric Critical Care Response
=	 Unplanned Date & Time PCCRT Notified Notified By 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: 	but who are seen by the Paediatric Critical Care Response





- 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
- 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