



GUIDE

A Guide to the NSW **Trauma Process Indicators**

Version 1.1

June 2017

NSW Institute of Trauma and Injury Management

The Agency for Clinical Innovation (ACI) works with clinicians, consumers and managers to design and promote better healthcare for NSW. It does this by:

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Introduction

Measures of the performance of the NSW trauma system are required to provide guidance on quality improvement activities, benchmarking and reporting, research, education and future investment. These measures are known as trauma process indicators (PIs) and are a fundamental part of monitoring the trauma system.

The following process indicators were developed by the NSW Institute of Trauma and Injury Management (ITIM) as a means to evaluate the care of severely injured patients.

There is currently a lack of published studies regarding their use in trauma but it is generally agreed that benchmarks are required to evaluate quality of care across a system. Therefore these process indicators were developed based on the best available evidence regarding trauma quality improvement programs, and consensus among data managers and clinicians.

It is anticipated that these process indicators themselves undergo continuous monitoring and adjustment in consultation with clinicians as our understanding of their usefulness evolves.

These indicators are to be collected and reported for every major trauma case reviewed by trauma services across NSW as part of the State-wide Trauma Minimum Dataset. Their presence in a particular case does not necessarily indicate poorer quality of care or correlate with adverse outcomes, but they do provide a useful marker to investigate cases further where clinically appropriate.

Most of the trauma PIs below have been adapted by the NSW ITIM Data Management Committee based on previous work by Stelfox et al (Stelfox, Straus, Nathens, & Bobranska-artiuch, 2011).

- 1. Scene time (pre-hospital)
- 2. Time to laparotomy
- 3. Time to embolisation
- 4. Unplanned admission to ICU
- 5. Complications
- 6. Unplanned return to the operating room
- 7. Missed injuries
- 8. Death review
- 9. Retrieval team turnaround time
- 10. Medical retrieval notification time
- 11. Intubation in ED with GCS <9 in head injury

PI - 1: Scene time (Pre-hospital)

Background and Rationale

Prolonged scene times may be associated with increased morbidity and mortality of neurotrauma, haemodynamically unstable and penetrating injured patients (Brown et al., 2016; Harmsen et al., 2015). Therefore, this cohort of patients should be transported to hospital as soon as possible for definitive treatment.

For the undifferentiated haemodynamically stable trauma patient, prolonged scene time has an association with increased ICU and hospital length of stay (Quality of Trauma for Adult Care, 2013) with no distinguishable increase in the odds of mortality (Brown et al., 2016; Harmsen et al., 2015).

Literature shows that prehospital scene times are important and serve as an indicator for sensitive gauges of the efficiency of the system. (Rosengart, Nathens, & Schiff, 2007) This PI has aligned with other current Australian Indicators of prehospital scene times of 20 minutes or less for major trauma patients (Dallow et al., 2010; Funder, Petersen, & Steinmetz, 2011; Victorian & Committee on Trauma, 2014) and supported by Stelfox et al 2011(Stelfox et al., 2011).

Definitions

Time of Arrival at Patient:

- The date and time the first pre-hospital crew reached the patient at the scene.
 - This is documented as the "Patient Contact" time on the Ambulance Patient Health Care Record (PHCR) documentation (see example p.155)
 - Or
 - "@ Patient" on the Ambulance Electronic Medical Record (see example p.154).

Scene Departure time:

- The date and time the pre-hospital crew left the scene with the patient.
 - $\circ\,$ This is documented as the "Depart Scene" time on the Ambulance PHCR documentation
 - Or
 - "Loaded" on the Ambulance Electronic Medical Record. It is recorded as "Left Location" as date and time in Collector.

The Appendix contains the screenshots of various retrieval sheets from different agencies and the fields which provide the necessary information are marked.

Calculation of Scene Time Calculation

The pre-hospital scene time is calculated from the time the pre-hospital crew arrives at the patient (Arrived at Patient time) to the time they depart the scene with the patient (Left Location time).

This will be calculated while creating reports

Left Location date and time – Arrived at Patient date and time = Pre-hospital scene time

Dates, times and if the patient was extracted and it has been noted by the pre-hospital crew it can be recorded in collector. (See Appendix)

Flowchart



Comments

It is agreed that this scene time is subject of debate, and will undergo continuous monitoring and adjustment in consultation with clinicians and evidence.

Where there has been a delay and the extrication time has not been completed, look for an explanation in the notes. If a violation of the nominated scene time is recorded, clinical consideration should be provided in instances where necessary when life critical interventions, prolonged egress/ingress or extrication of trapped major trauma patients are required (Gonzalez, Cummings, Phelan, Mulekar, & Rodning, 2009).

Comments should refer to events unexplained by the extrication time on the NSW Ambulance Service Patient Health Care Record or retrieval record. *e.g. patient transferred from one pre-hospital crew to another*.

• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 1</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
Pre-hospital: Scene/Transp ort	Scene/Transport Providers - Agency	Pre-hospital Provider Agency	Conditional	Conditional	PH_A_ID_ L
Pre-hospital: Scene/Transp ort	Scene/Transport Providers - Mode	Pre-hospital Provider Mode	Conditional	Conditional	PH_MODE _ID_L
Pre-hospital: Scene/Transp ort	Pre-hospital Provider - Arrived at Patient: Date <u>and</u> Time	Date and time transport provider arrived at patient	Conditional	Not in MDS	PH_A_EVE NT
Pre-hospital: Scene/Transp ort	Pre-hospital Provider - Left Location: Date <u>and</u> Time	Date and time transport provider left location with patient	Conditional	Not in MDS	PH_L_EVE NT
Pre-hospital: Scene/Transp ort	Pre- hospital/Scene/T ransport	Was Patient Extricated?	Mandatory	Not in MDS	PH_EXT_Y N
Pre-hospital: Scene/Transp ort	Pre- hospital/Scene/T ransport	Patient Extrication duration in minutes	Conditional	Not in MDS	PH_EXT_ MIN

PI - 2: Time to laparotomy

Background and Rationale

Prolonged time between decision in the ED and laparotomy may be associated with increased mortality (Barbosa et al., 2013; Stelfox et al., 2011). Therefore, urgent laparotomies for patients with suspected intra-abdominal bleeding and haemodynamic instability in trauma should occur without delay.

Definitions

ED Arrival:

• Time the patient arrived in the ED, this may be different from the triage time.

Procedure start time:

• Time the surgical procedure commenced in the operating theatre, also known as the Knife to Skin time. ("Surgery start time" in SurgiNet)

Calculation

Time to laparotomy is calculated from the date and time the patient arrives in the ED (ED Arrival date and time) to the time the laparotomy procedure commences (Knife to Skin date and time).

Knife to Skin date and time – ED Arrival date and time = Time to laparotomy

e.g. 01/01/2001 1030hrs - 01/01/2001 0900hrs = 1 hour 30mins

Flow Chart



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 2</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
ED Arrival	Emergency Department/Arriv al	ED Arrival: Date and Time	Mandatory	Mandatory	RESUS_E VENT
Procedures	Procedure Start Date and Time	Exploratory Laparotomy (30373-00): Start (needle to skin) Date and Time for Procedure	Conditional	Conditional	PROC_S_ EVENT_L

PI - 3: Time to embolisation

Background and Rationale

Embolisation is considered as therapeutic introduction of substances into the circulation to occlude vessels to prevent bleeding. Prolonged time between decision in the ED and embolisation may be associated with increased morbidity and mortality (Agolini et al., 1997; Slater & Barron, 2010) and in patients who have abdominal bleeding due to trauma, it is observed that risk of mortality constantly increase up to 90 minutes (Clarke, Trooskin, Doshi, Greenwald, & Mode, 2002).Therefore, urgent embolisation for patients with haemodynamic instability in trauma should occur without delay.

Definitions

ED Arrival:

• The time the patient arrived at the ED. Note, this may be different from the triage time.

Procedure start time:

• The time the intervention(procedure) commenced. This is also known as the Needle to Skin time.

Calculation

Time to embolisation is calculated from the date and time the patient arrives in the ED (ED Arrival date and time) to the time the embolisation procedure commences (Needle to Skin date and time).

Needle to Skin date and time – ED Arrival date and time = Time to embolisation

e.g. 01/01/2001 1030hrs - 01/01/2001 0900hrs = 1 hour 30mins



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 3</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
ED Arrival	Emergency Department/Arriv al	ED Arrival: Date and Time	Mandatory	Mandatory	RESUS_E VENT
Procedures	Procedure Start Date and Time	Transcatheter Embolisation Blood Vessel (35321-00): Start (needle to skin) Date and Time	Conditional	Conditional	PROC_S_ EVENT_L

PI - 4: Unplanned admission to ICU

Background and Rationale

Unplanned admission to the Intensive Care Unit (ICU) in trauma patients may be associated with increased morbidity and mortality and resource utilisation (Haller, Myles, Langley, Stoelwinder, & McNeil, 2008; Quality of Trauma for Adult Care, 2013; Stelfox et al., 2011; Story et al., 2010). Unplanned admissions to ICU include patients who were transferred to the ward and whose condition subsequently deteriorated requiring prompt admission or re-admission to the ICU.

Examples may include those patients who are:

- Transferred from ICU to a ward and back to ICU
- Transferred from ED to a ward and onto ICU
- Transferred from ED to operating theatre with the intention to go to a ward from recovery and are redirected as an ICU admission.

Definitions

NSW Health definition of ICU:

A bed staffed 24 hours a day that meets the Intensive Care role delineation of level 4 or higher, and used to accommodate patients requiring Intensive Care. Beds classified as Intensive Care beds must be specially staffed and equipped to provide observation, care and treatment to patients with actual or potential life-threatening illnesses, injuries or complications, from which recovery is possible. The bed is serviced by special expertise and facilities for the support of vital functions and utilises the skills of medical, nursing and other staff trained and experienced in the management of these problems.



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 4.</u>

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
QA >Filters > System	QA Filter Code	'QA' → 'Filters' → 'System Filters', tick 'Unexpected return to OT' or alternatively enter '8506' in 'If Other'	Conditional	Conditional	FLT_CDE_ L

PI - 5: Complications

Background and Rationale

The development of complications during an admission may be associated with prolonged length of stay and increased morbidity and mortality (Quality of Trauma for Adult Care, 2013).

Definitions

Complications are secondary diseases or conditions aggravating existing ones. Some of the types of complications are listed below: (A comprehensive list is found in Appendix 5)

"A condition, disease, or injury that occurs during the acute care hospital stay which potentially has some negative impact on patient outcome (mortality, disability, prolonged hospitalisation) and results or may result from the health care process (actions or inactions)" (Moore et al., 2015)

Complication	QA_CODE
Esophageal Intubation	2501
Extubation, Unintentional	2502
Aspiration/Pneumonia	3003
Empyema	3005
Fat Embolus	3006
Retained Hemothorax	3007
Pneumonia (Infection)	3008
Pneumothorax (latrogenic)	3010
Pulmonary Embolus	3014
Cardiac Arrest	3502
Dehiscence/Evisceration	4003
Splenic Injury (latrogenic)	4506
Coagulopathy (Other)	5002
Wound Infection-Cellulitis/Traumatic	5501
Bacteremia	5507
Surgical Wound Infection (Not Orthopedic)	5509
Renal Failure	6001
Urinary Tract Infection (UTI) Early or Late	6003, 6004
Compartment Syndrome	6501
Pressure Ulcer-Stage I - 4	6502, 6503, 6504, 6505
Osteomyelitis	6508
Orthopedic Wound Infection	6509
Rhabdomylosis	6510
Alcohol/Drug Withdrawal	7001
Deep Vein Thrombosis (DVT), Lower extremity(s)	7502
Anesthetic Complication	8501
Hypothermia	8504
Unexpected Post-Operative Hemorrhage	8508
Managed Care Issue	8510
Referring Facility Complication (Not Prehospital)	8515



See Appendix 5 for workflow screenshots.

New	Data	Elements	identified	for MDS
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Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
QA >Filters > System	QA Filter Code	'QA' → 'Filters' → 'System Filters', enter <i>corresponding code</i> in 'If Other'	Conditional	Conditional	FLT_CDE_ L

PI - 6: Unplanned return to the operating room

Background and Rationale

Unplanned return to the operating room (OR) in trauma patients may be associated with increased morbidity and mortality and resource utilisation (Ansari & Collopy, 1996; Birkmeyer et al., 2001). Unplanned returns to the OR include patients who return for post-operative haemorrhage, unexpected surgery for missed injuries, or unexpected deterioration of condition.

An unplanned return to the OR has significant implications and is a key performance indicator for SurgiNet.

Flowchart



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 6</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
QA >Filters > System	QA Filter Code	'QA' → 'Filters' → 'System Filters', tick 'Unexpected return to OR' or alternatively enter '8506' in 'If Other'	Conditional	Conditional	FLT_CDE_ L

PI - 7: Missed injuries

Background and Rationale

Delayed diagnosis of injuries may be associated with prolonged length of stay and increased morbidity and mortality. Ideally all injuries will be diagnosed during the first 24 hours of care.

Definition

A missed injury is defined as any injury of AIS >1 that is not diagnosed at the time of the trauma tertiary survey or within 24 hours of ED arrival, whichever comes first. The decision to include AIS >1 has been reached via consensus.

Flowchart



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 7</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
QA >Filters > System	QA Filter Code	'On 'QA' → 'Filters' → 'System Filters', tick 'Missed Injuries' or alternatively enter '9007' in 'If Other'	Conditional	Conditional	FLT_CDE_ L

PI - 8: Death review

Background and Rationale

Trauma Services should conduct a review of all trauma deaths in their facility. The review should determine whether the death was non-preventable, potentially preventable or preventable and recommend corrective actions as required to improve the quality of trauma care.

Definition:

The following definitions are adapted from McDermott et al (McDermott, Cordner, Cooper, & Winship, 2007) with the addition of Injury Severity Score (ISS) as categorised by the World Health Organisation.(World Health Organization, 2009)

- Clinically preventable trauma death: "With full knowledge of the clinical history and all injuries sustained that the chances of survival would have exceeded 75% with optimal treatment or the ISS is less than 20."
- Clinically near-preventable trauma death: "With full knowledge of the clinical history and all injuries sustained that the chances of survival would have been 25-75% had the patient received optimal treatment or the ISS is between 20 and 50."
- Clinically non-preventable trauma death: "With full knowledge of the clinical history and all injuries sustained that the chances of survival with optimal management would have been less than 25% or the ISS is greater than 50."

Categories

- Case reviewed non-preventable death
- Case reviewed potentially preventable death
- Case reviewed preventable death
- Case reviewed unknown preventability
- Case not reviewed died
- Not applicable survived

Note: Cases recorded as either "Clinically near-preventable trauma death" or "Clinically preventable trauma death" should be reviewed by the ITIM Clinical Review Committee.



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 8</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
QA >Filters > System	QA Filter Code	'On 'QA' → 'Filters' → 'System Filters', tick 'Death Potentially Prevent' or alternatively enter '8550' in 'If Other'	Conditional	Conditional	FLT_CDE_ L
		On 'QA' → 'Filters' → 'System Filters', tick 'Death - Preventable' or alternatively enter '8530' in 'If Other'			

PI - 9: Retrieval team turn-around time

Background and Rationale

Delays in inter-hospital transfer may be associated with delays to definitive treatment and increased morbidity and mortality. Therefore, patients should be transferred from the referring hospital to the receiving hospital as quickly as possible. Time spent during flight is fixed by the distance travelled, but the time spent by the retrieval team at the referring facility is variable. This time can be reduced by the referring facility making preparations prior to the retrieval team's arrival and also by the retrieval team conducting only necessary investigations and interventions prior to departure whilst ensuring appropriate care and patient safety.

Definitions

Arrived at Patient: The date and time the retrieval team arrived at the patient's bedside at the referring hospital.

Departed referring hospital: The date and time the retrieval team depart the referring hospital, as recorded in either the retrieval team casesheet (see appendix for examples) or as discharge from the refferring hopsital.

Calculation

Retrieval team turn around is calculated from the date and time the retrieval team arrives at the patient's bedside at the referring hospital (Arrived at Patient) to the date and time they leave the referring hospital (Departed Referring).

Departed Referring – Arrived at Patient = Retrieval Team Turn Around time

e.g. 01/01/2001 1200hrs - 01/01/2001 1030hrs = 1 hour 30mins



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 9</u>.

Comments

Where prolonged turnaround times are recorded it is suggested that these be trended by the month recorded in periodic reports to a local committee. Where prolonged turnaround times impact clinical outcomes, these cases are suggested to be reviewed by CRC and local review processes.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
ED Arrival	Emergency Department/Arriv al	ED Arrival: Date and Time	Mandatory	Mandatory	RESUS_E VENT
Demographic > Patient	System Access	* System Access: Transfer from another acute care facility	Mandatory	Mandatory	ENTRY_SY S
Inter-facility Transport	Inter-facility Transport Agency	Inter-Facility Transport – Agency (1 and 2)	Conditional	Conditional	IT_AG_ID_ L IT2_A_ID_ L
Inter-facility Transport	Inter-facility Transport Mode	Inter-Facility Transport Mode (1 and 2)	Conditional	Conditional	IT_MODE IT2_MODE
Inter-facility Transport	Arrived at Patient Date and Time	* Inter-facility Transport - Arrived at Patient: Date <u>and</u> Time	Conditional	Conditional	IT_PT_EVE NT IT2_PT_EV ENT

PI - 10: Medical retrieval notification time

Background and Rationale

Delays to secondary or tertiary referrals may be associated with delays to definitive care and increased morbidity and mortality. Therefore, referral for patients requiring secondary or tertiary transfer should occur as quickly as possible. Prolonged time before making a retrieval notification contributes to the delay to definitive care. This indicator measures the length of time from arrival at the referring facility ED to first notification of the medical retrieval service (Quality of Trauma for Adult Care, 2013; Stelfox et al., 2011).

Definitions

Arrived at referring facility: The date and time the patient arrived at the referring facility ED.

Medical retrieval service notifed: The time the medical retreival service was first contacted reagrding the need to transfer the patient.

Calculation

Medical retrieval notification time is calculated from the date and time the patient arrived in the ED at the referring facility (Referral ED Arrival time) to the date and time first contact is made with the medical retrieval service (Retrieval Contact time) regarding transfer of the patient. Retrieval contact time may be obtained from hospital medical notes or retrieval team case sheets (see appendix for examples)

Retrieval Contact time - Referral ED Arrival time = Medical Retrieval Notification time

e.g. 01/01/2001 1200hrs - 01/01/2001 1135hrs = 25 minutes

Categories

- Medical Retrieval notification time > 30 mins
- Medical Retrieval notification time ≤ 30 mins
- Not applicable (Use if patient did not require secondary or tertiary referral)
- Unknown Time of Medical Retrieval notification

Comments

It is acknowledged that this time, whilst it may not be entirely precise, will provide information to highlight significant extended notification timeframes within the system. Where prolonged notification times are recorded it is suggested that these be trended by the month and recorded in periodic reports to a local committee. Where prolonged notification times impact clinical outcomes, these cases are suggested to be reviewed by ITIM CRC and local review processes.



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 10</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
Ref Facility 1 Or Ref Facility 2	Referring Facility Name (1) Referring Facility Name (2)	Referring Facility(1) Referring Facility(2)	Conditional	Conditional	RF_HOSP RF2_HOSP
Ref Facility 1 Or Ref Facility 2	Referring Facility Arrival: Date and Time Referring Facility 2 Arrival: Date and Time	Referring Facility Arrival: Date and Time Referring Facility 2 Arrival: Date and Time	Conditional	Conditional	RF_A_EVE NT RF2_A_EV ENT
ED Arrival	Emergency Department/Arriv al	ED Arrival: Date and Time	Mandatory	Mandatory	RESUS_E VENT
Ref Facility 1 Or Ref Facility 2	Inter-facility Transport Agency (1) – Call Received Date and Time Inter-facility Transport Agency (2) – Call Received Date and Time	Date and Time when the Transport Agency(1) received the call Date and Time when the Transport Agency(2) received the call	Conditional	Not in MDS	IT_C_EVE NT IT2_C_EVE NT

PI - 11: Intubation in ED with GCS <9 in head injury

Background and Rationale

Delayed time to intubation in ED for patients with a GCS < 9 with a head injury may be associated with increased morbidity & mortality (Murray et al., 2000; Winchell & Hoyt, 1997). Therefore, patients should be intubated as soon as possible for airway protection and to assist in prevention of secondary brain injury.

Categories

- GCS < 9 and intubated > 20 mins after arrival in ED
- GCS < 9 and intubated ≤ 20 mins after arrival in ED
- GCS < 9 but not intubated in ED
- Not applicable (Use if patient's GCS \geq 9 on arrival to ED)
- GCS < 9 and intubated in ED but unknown time

Definition

Head injury is defined as a patient presenting to hospital following acute blunt or penetrating head trauma with or without a definite history of loss of consciousness or post traumatic amnesia. In this context, an initial GCS < 9 is an indicator of severe head injury.

Intubation is the placement of a definitive artificial airway in the trachea such as an endotracheal or nasotracheal tube.

Calculation

Time to intubation is calculated from the time the patient arrives in the ED (Arrival in ED time) to the time intubation is successfully completed and ventilation is commenced in the ED (Ventilation start time).

Ventilation start date and time – Arrival in ED date and time = *Time to intubation*

e.g. 01/01/2001 1200hrs - 01/01/2001 1150hrs = 10mins



• Workflow processes are provided in the appendix to guide the consistency in collecting and reporting of the process indicators. Please see <u>Appendix 11</u>.

Collector Tab Location	Data Element Name	Description	Mandatory Status after implement ation	Current Status	Collector Field Name
ED Arrival	Emergency Department/Arriv al	ED Arrival: Date and Time	Mandatory	Mandatory	RESUS_E VENT
Initial ED Vitals	GCS Total	GCS (Glasgow Coma Scale/Score) – Total – The sum of the patient's Eye opening, Verbal response, and Motor response Scores.	Mandatory	Mandatory	GCS_A_L
Diagnoses>Cod ing	Diagnoses	AIS Code	Mandatory	Mandatory	PREDOTS RPT_L
Patient Tracking	Ventilator Tracking Start and Stop Date/Time	Ventilator Tracking – Start and Stop Date/Time	Conditional	Conditional	VT_A_EVE NT_L
Diagnoses>Cod ing	AIS Severity Level	AIS Severity Level	Mandatory	Mandatory	AIS_SEV_ L
Diagnoses>Cod ing	AIS Body Region	AIS Body Region	Mandatory	Mandatory	AIS_BR
Appendix 1: P1 - 1 workflow

Collector workflow

- 1. Click on Prehosp tab
- 2. Click on the Add button next to the Scene/Transport Providers section

Add Multiple Triage Rationales Add Multiple Triage Rationales Age < 16 &> 85 years Bicycle v vehicle / separated or thrown from bicycle Scenev/Transport Providers Agency Role Mode Call Received Date	
Age < 16 % > 65 years Bicycle v vehicle / separated or thrown from bicycle v Scene/Transport Providers Agency Role Mode Call Received Date Call Received Date Call Received Date	
Bicycle v vehicle / separated or thrown trom bicycle cerre/Transport Providers cerre/Transport Providers Agency Role Mode Call Received Date Call Received	
Agency Role Mode Call Received Date Call Received	
Agency Role Mode Call Received Date Call Received	
	me 🛃 Add
	Deleb
	Custon
✓	and the second division of the second divisio

👍 Add

3. Clicking on Add button opens the following screen.

• • • • • • • • • • • • • • • • • • •	
Record Edit Browse	
Provider	
Agency	
Unit Number	
Role	
Mode	
If Other	
🗖 Trauma Notification	
Run Number	
Dispatch Number	
Care Level 🔹	
E Report Available	
Call Received 🗾 🗄	
Call Dispatched	
En Route 🗾 🗄	
Arrived at Location	
Arrived at Patient	
Left Location 🗾 🗄	
Arrived at Destination 🗾 🗄	
Intercept Location	-
✓ Check ✓ Save and Exit X Cancel 🛃	
1 of 1	

4. Ensure that you have filled the Mandatory fields as shown below

Scene/Transport Providers	
Record Edit Browse	
Provider	
Agency AMRS	
Unit Number 12	
Role	
Mode Ambulance	
If Other	
Trauma Notification	Mandatory fields
Run Number	Areney
Dispatch Number	Agency
Care Level	Mode
Report Available	Arrived at Patient date/time
Call	Left Location date/time
Call Received 01/12/2016 🔽 10:20	
Call Dispatched 01/12/2016 🗾 10:21	
En Route 01/12/2016 🗾 10:36	
Arrived at Location 01/12/2016 🗾 10:36	
Arrived at Patient 01/12/2016 🗾 10:37	
Left Location 01/12/2016 🔲 10:58	
Arrived at Destination 01/12/2016 🔲 11:20	
Intercept Location	
🗸 Check 🛛 🗸 Save and Exit 🛛 🗙 Cancel 🛛 🏰 💻 🖪 🔍 🕨	
1 of 1	

If you Edit an existing record by clicking on the Edit button, then the same screen opens up (same screen when you clicked on add to record the information as above)

🖉 Edit	
	_

5. Ensure that after editing, the mandatory fields are still filled in

Scene/Transport Providers	
Record Edit Browse	
Provider	
Agency AMRS	
Unit Number 12	
Role	
Mode Ambulance	
If Other	Manalatan Galda
Trauma Notification	iviandatory fields
Run Number	Agency
Dispatch Number	Mode
Care Level	Arrived at Patient date/time
E Report Available	Left Location date/time
Call	Eon Eoodion adio, ime
Call Received 01/12/2016 🗾 10:20	
Call Dispatched 01/12/2016 🗾 10:21	
En Route 01/12/2016 🗾 10:36	
Anived at Location 01/12/2016 🔄 10:30	
Arrived at Patient 01/12/2016 🔽 10:37	
Left Location 01/12/2016 🔽 10:58	
Arrived at Destination 01/12/2016 🗾 11:20	
Intercept Location	
🗸 Check 🛛 🖌 Save and Exit 🛛 X. Cancel 🛛 👫 💻 🕘 🕘 🕨	
	1

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

Report	C Standard	• User			Edit	Clear
Query	For:	Sele	ct ReportX		Edit	Clear
Gather	Grouped By:		Statistics Report		Edit	Clear
Output © Screen © Printer © File	Print Setup	Page Setup	C Output P	rinter Codes		

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_SCENE_TIME
- 10. Select the description field and enter Scene Time
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
INST_NUM_AS_TEXT	Facility Name		
EDA_EVENT	Facility Arrival_Y4	20	D0E1Z0
AGE_RPT	Age		
E_CODE_1_AS_TEXT	Mechanism		
ISS_RPT	ISS		
DIS_STS_RPT_AS_TEXT	Outcome		
MINUS(A_PH_L_EVENT,A_PH_PT_EVENT	Scene Time		
PH_PT_TM_L	Arrived at Patient		
PH_A_ID_L_AS_TEXT	Transport Agency		
PH_EXT_YN	Was Patient Extracted		



15. Click on General tab and click CSV option and also select Include Column Headings tickbox

DT_SCENE_TIME - Data Table Editor	
Name: DT_SCENE_TIME Description: Report for CI1	
Data Elements Sort Order General	
Title:	
SubQuery	
Output Type	
CSV	
Across:	
Lise Save Save As X Close	

- 16. Click on Use which will close this screen
- 17. Click on the File radio button in Output section
- 18. Click on the File Folder button will open the "Select File" screen
- 19. Provide the file name (also put a .CSV) at the end of file name
- 20. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

Report	Cstended 7 Une	r					
Query	12		Oee				
Gather	linngwed By		Ore				
Gather And Scion Finter	Enoped By	T Bulgot Press Codes	ta ow	Clicki icon v	ng on the file f vill open this s	folder creefi	
Gather pul Scioni Parter File	Interest By	T" Gubut Press Codes	Ed8Ower	Clicki icon v Loke Imwak Name -	ng on the file f vill open this s • C	folder creen D cf III+ + Date modified	

Query

1. Select Query edit button on the main screen on Report Writer

E Aus Report	
DI Report Writer	
Report F Das	
Query For:	Edit Clear
Gather	
Congrad C Scenary C Provide P File P File D VTIN Work (C), 1, 5 correct Freedingson (CDV)	Advanced Datases
Different Concertor	K dina

2. Clicking the Query edit button opens the following screen

💼 Query Editor	_		×
Name:			
Description:			
Query Fields General			
Select records that match 📀 Each 🔿 One or more of the following criteria.	_		
Column 1 Operator 🛆 Column 2		-	<u>A</u> dd
	1	1	<u>E</u> dit
		<u> </u>	elete
		Mov	e <u>U</u> p
		Move	<u>D</u> own
		<u>Q</u> u	ick
	•		
Use Save Save As X Close			

3. Select the Name field and enter process indicator name Q_SCENETIME_GT_20

- 4. Select the description field and enter the desription Scene Time for CI1
- 5. Click the Add button on the right hand side of the screen

🚽 Add

6. Clicking on add button opens the following screen

📰 User Query Editor			_ D X
Record Edit Browse			
Column1	Operator:	Column 2	
✓ <u>O</u> K X. <u>C</u> ancel			≠ − ∢ → →

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 8 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ISS_RPT	>	12
MINUS(A_PH_L_EVENT,A_PH_PT_EVENT)	>	20

10. The final query will look like this. Once done click on save button.

Z_SCENETIME_GT_20 - Query Editor	
Name: Q_SCENETIME_GT_20 Description: Scene Time for Cl1 Query Fields General	
Select records that match 💿 Each 💿 One or more of the following criteria.	
Column 1 🛆 Operator Column 2	📥 🚽 🖂
ISS_RPT > 12	<u>/</u> Edit
MINUS/A_PH_L_EVENT A_PH_PT_EVENT) > 20	
	Mayalla
	Move Up
	Move <u>D</u> own
	Quick
•	•
Use Save Save As X Close	
·	

11. Once compete select ok



- 12. Click Save
- 13. Click on Use which will close this screen

14. Once the report and the query has been filled in, click on Run to run the report

📰 Run Report	_ 🗆 X
🍰 DI Report Writer	
Report Standard © User	EditClear
Query For: Q_SCENETIME_GT_20	Edit Clear
Gather	EditClear
Output © Screen © Printer Print Event © File	Advanced Outputs
Refresh Snapshot	
Bun '*. Count S Report Options S Reset X Close	•

15. The following screen will popup where you can set the filters for your report as shown below.

E Aus Report	X	
🗳 DI Report Writer		
Run Report		
Trauma Number: Arrival Date: Discharge Date: 7 / Lobe Facility: 121 Population Queries Query: Clear Clear Query: Clear	X 0m	Give a Date Range as appropriate Provide your facility Number

16. Click on OK and the following screen will popup and a CSV file will be created.

Status		X
Processing records		98
	X Abort	

A CSV file will be saved in the location you have specified.

Appendix 2: PI - 2 workflow

Collector workflow

1. Go to Procedures and click on Add Multiple Procedures button

ſ	📰 Traur	na Data Editor									<u> </u>
I	Demograpł	nic [Injury] Prehosp	Ref Facili	ty1 [RefFa	cility 2 Pt T	racking ED) Proced	ures Diagr	noses] Outo	come QA	Memo ITIM
L										Add Multiple	e Proceduresn
L	Code	Procedure	Location	Start Date	Start Time	Stop Date	Stop Time	Results	Region	Service	👍 Add 🔱
L										[🥖 <u>E</u> dit
L											<u> </u>
L											
L											
L											
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L											
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L	•									•	
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H											Custom
	✓ <u>C</u> he	ck 🛛 🔚 <u>S</u> ave	Sa	ve and E <u>x</u> it	🎯 Prir	nt	X <u>C</u> lose				Prev Dext
	Trauma Nur	nber: 201400046	Arrival Date:								A _ *

2. Following screen will popup.

Colo Parata Santa	Turbes Bill Provident (Dagmann Datamer St. Menn Men Adjundent Turbent Stanland (Starland Provident Starland (Starland Provident Starland (Starland Provident Starland (Starland Provident Starland (Starland Provident)	
	Procedure: Record Edit Non-pare Lossion Start Date/Time Service	Stop Dates/Time
* Dent Ban ten setta aft Teneficie Station Analten	KD10 AM Denoistion 1	Head Anatomic Region Image: state stat

3. Fill in the details

	Procedures
	Record Edit Navigate
	Location Operating Room 💽 Start Date/Time 01/12/2016 🔽 08:00 Stop Date/Time 01/12/2016 ᠌ 10:00
	ICD10 AM Description Result Anatomic Region 1) 30373-00 Exploratory laparotomy Positive Abdomen & Pelvic Contents Image: Contents 2)
L	
	Image: State of S

4. Click on OK in the Procedures screen and the click on Save in the Trauma Data Editor screen as shown below

	Record Edi	it Navigate					1
3 (rooma ento conor Senopacho Intey Pietoop Ref Fi	Locators Dpena Service Traus	ing Room	Stat Date/Text 01/12/20	TTE [08:00 Stop	o Data/1	inar (01/12/2016 📆 (10	0 00
Code Procedure Localiz	ICD10 AM	Description		Result		Anatomic Region	
	1) 30373-00	Exploratory laparotomy	2	Positive	+	Abdomen & Pelvic Contents	
	2)						14
	3			_	-		-
	-	-		-			-
	Ð			-			-
	n	-					
	8	1			1		
	9	1		18			+
	10)	1					
	V OK X	Cancel					
4	0		1	ы			
				Custom			

5. Saved procedure will show up as below

📰 Trau	uma Data Edito	r								_ _ >	×
Demogra	aphic 🛛 Injury 🗍 Preh	osp∫ Ref Facili	ty1 ∣RefFa	cility 2∫ Pt T	racking ED	Proced	ures Diag	noses Out	come QA	Memo ITIM	
									Add Multipl	e Procedures	
Code	Procedure	Location	Start Date	Start Time	Stop Date	Stop Time	Results	Region	Service	bb <u>A</u> 🚣	
30 E	xploratory laparotomy	Uperating	101712720	08:00	101712720	10:00	Positive	Abdomen	Trauma	🥖 <u>E</u> dit	
										💻 <u>D</u> elete	
									•		
										Custom	
🗸 🗸	heck 🛛 🔛 Sa	ve Sa	ve and E <u>x</u> it	🎯 Prir	nt	X <u>C</u> lose				Prev D N	<u>l</u> ext
Trauma N	lumber: 201400046	Arrival Date:	:							A	. ×

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

📰 Run Report	_ 🗆 X
🍰 DI Report Writer	
Report Standard © User	Edit Clear
Query For: Select Report X	Edit Clear
Gather Grouped By: Cancel	Edit Clear
Output	
C Printer Print Setup Page Setup Output Printer Codes	Advanced Outputs
Refresh Snapshot	
▶ <u>R</u> un '=, Count I Report Options I Reset X	Close

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot

📕 Data T	able Editor					
Name: Description: Data Element	s Sort Order Gen	eral	<u>"</u>			
	Field	Δ	Label	Width	Format	🚽 PPV
						<u>E</u> dit <u>Delete</u> <u>Move Up</u> <u>Move Down</u> <u>Quick Add</u>
<u>U</u> se	Save Save A	s 🗙 <u>C</u> lose				

- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_LAPTIME_CI_GT2HRS
- 10. Select the description field and enter Time to Laparotomy >2hrs
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
INST_NUM_AS_TEXT	Facility Name		
EDA_EVENT	Facility Arrival_Y4	20	D0E1Z0
AGE_RPT	Age		
E_CODE_1_AS_TEXT	Mechanism		
ISS_RPT	ISS		
DIS_STS_RPT_AS_TEXT	Outcome		
A_PROC_PR	Procedure code		
A_PROC_PR_AS_TEXT	Procedure code as text		
A_PROC_S_EVENT	Procedure Start Date	20	D0E1Z0
A_PROC_S_TM	procedure start time		
MINUS(A_PROC_S_EVENT,EDA_EVENT)	Time to theatre in minutes		

📕 DT_LAPTIME_CI_GT2HRS - Data	Table Editor			_	
Name: DT_LAPTIME_CI_GT2HRS Description: Lapratomy > 2 hrs Cl Data Elements Sort Order					
Field	Label	Width 🛆	Format		🚽 Add
INST_NUM	Facility Number				
EDA_EVENT	Arrival Event		D0E1Z0		
EDA_DT	Arrival Date at ED		D0E1Z0		💻 <u>D</u> elete
A_PROC_PR	Procedure Code				Movello
A_PROC_S_TIME	Proc start time (mins)				p
MINUS(A_PROC_S_EVENT, EDA_EVENT)					Move <u>D</u> own
A_PROC_PR_AS_TEXT	Procedure Description	500			Quick Add
Use 🔄 Save Save As 🗙 Close]				

- 15. Click on General tab
- 16. Click CSV option and also select Include Column Headings tickbox
- 17. Select Procedures from Across drop down menu

DT_LAPTIME_CL_GT2HRS - Data Table Editor	<u>_ </u>	
Name. 01_LAPTINE_O_STEHRS Description: Lapratomy > 2 for Cl		
[DetaElements] [SortOrder General]	4	
Tile:	_	
Subluey	-	
Gutput Type		
G CSV - Findule Column Hawting - Fillanch Farel		Select these
		options
		Select Procedures in the
ED/Treatments		Across dropdown
Liew Disproces/ Complications		
DAY Filteri DA Tracking Menco		
Diagnoses - Loding Section Diagnoses - ICD10		

- 18. Click save
- 19. Click on Use which will close this screen

📰 Run Rep		_ D X
2 D	I Report Writer	
Report	C Standard 📀 User	
III	DT_LAPTIME_CI_GT2HRS Across Procedures	
- HECKNEY		
Query	fur	te l Der l
(amu)	Graged By	
50	[ta Our
Cuput		
C Partie	Providence Projection and F Guipar Pierce Codes	
CRe		AdvancedDatapate
Referat Series	union (
	*. Court 2 Report Others 2 Report X	Dine

20. Click on the File radio button in Output section

📰 Run Rep	ort				_ 0 X
D 🕹	I Report	Writer			
Report	C Standard	User			
III	DT_LAPTIME_CI_GT28 Across Procedures	IRS			Edit Clear
Query	For			_	Edt Ciear
	Grouped By				
Gather	-				Edt Clear
Oulput					
C Screen	Persena 1	Page Setup	C Output Printer Co	des	
• File	U:\ITIM Work\MyRep	ort.csv	<u>2</u>	Að	vanced Outputs
Betreah Sma	pshot			.8	
D Bun	··· Count	Report Options	O Reget		

- 21. Click on the File Folder button will open the "Select File" screen
- 22. Provide the file name (also put a .CSV) at the end of file name
- 23. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

Query

1. Select Query edit button on the main screen on Report Writer

📰 Run Rep	ort X
🤹 D	I Report Writer
Report	Standard User DT_LAPTIME_O_GT2HRS Edt Clear Across Procedures
Query	For: Edit Clear
Gather	Grouped By.
Output C Screen C Phinter C File	Print Setup Page Setup Dutput Printer Codes U.VTIM Work/MyReport.csv Advanced Outputs
Reheats Sna	eshot
D Bun	*. Count I Report Options I Reget X Close

2. Clicking the Query edit button opens the following screen

📰 Query Editor	. 🗆	×
Name:		
Description:		
Query Fields General		
Select records that match 💿 Each 🕓 One or more of the following criteria.		
Column 1 Operator 🛆 Column 2	- 4	Add
	_/	<u>E</u> dit
	_	<u>D</u> elete
	Mov	ve <u>U</u> p
	Move	e <u>D</u> own
	Q	uick
	·	
Use Save As X Close		

3. Select the Name field and enter process indicator name Q_LAPTIME_GT_2HOUR

- 4. Select the description field and enter the desription Time to Laparotomy > 2 hours
- 5. Click the Add button on the right hand side of the screen

🚽 Add

6. Clicking on add button opens the following screen

📰 User Query Editor			_ 🗆 X
Record Edit Browse			
Column 1	Operator:	Column 2	
✓ <u>O</u> K X <u>C</u> ancel			<u> </u>

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 9 and 10 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
MINUS(A_PROC_S_EVENT,EDA_EVENT)	>	120
ANY(PROC_PR)	=	"30373-00"

Q_LAPT_TIME_GT_2HOUR - Query Editor			. <u> </u>
Name: Q_LAPT_TIME_GT_2HOUR Description: Laptime> 2 hours(120 mins) Query Fields General Select records that match © Each	e or more of the follo	owing criteria.	
Column 1 🖓 🔺	Operator	Column 2	
ANY(PROC_PR) MINUS(A_PROC_S_EVENT,EDA_EVENT)		"30373-00" 120	<u>Ed</u> <u>D</u> elete <u>Move Up</u> <u>Move Down</u> <u>Q</u> uick
Use Save Save As X Close			

10. Once compete select ok



- 11. Click on General tab and Select the QA/Filters from the drop down box menu
- 12. Click Save
- 13. Click on Use which will close this screen

📰 Run Report	_ 🗆 X
🏂 DI Report Writer	
Report © Standard © User DT_LAPTIME_CL_GT2HRS Across Procedures	Edit Clear
Query For: Q_LAPT_TIME_GT_2HOUR	Edit Clear
Gather	Edit Clear
Output O Screen O Printer Print Setup Printer Page Setup O File U:\ITIM Work\LapTimeReport.csv	Advanced Outputs
Refresh Snapshot	
▶ Run '≥, Count 📝 Report Options 🔗 Reset 🗡 Olose	

14. Click on Run

		_101×1
	I Regard Writer	
Read I	C Standard Of State ST CLAPTER C CLIPTORE TRANS PROPERTY	لحدتهم
Theory .	nas Recomptioned and an and an	ليحاليها
Halfine .	thread the	ليدريد.
ingen Conservation Conservation Conservation Conservation	provide the second second	
-		
▶ <u>B</u> un	Prome [President] Prost] P	Ban_J

15. The following screen will popup

📰 Run Report		
📕 DI Report Writer		
🛱 Run Report		
Trauma Number: to Arrival Date: 01/01/2016 Discharge Date: / /o Pacial Discharge Date: / /o Population Queries Closed Query Clear Query Clear Query Clear		Give a Date Range as appropriate Provide your facility Number
OK Reset X Cancel		
Remark Sharedow		
D Bun **. Court D Proport Sprices O Proper	X Dea	

16. Click on OK and the following screen will popup and a CSV file will be created.

Status	×
Processing records	98
	Abort

17. A CSV file will be saved in the location you have specified.

Appendix 3: PI - 3 workflow

Collector workflow

1. Select the procedures tab and click on Add Multiple Procedures button

I	🗓 Traum	a Data Editor									_ _ ×	
Γ	Demographi	c 🗍 Injury 🍈 Prehosp) Ref Facili	ty1 ∫ RefFa	cility 2 Pt T	racking ED) Procedu	ures Diagr	noses Outo	come QA	Memo ITIM	
								\bigcirc		Add Multiple	e Proceduresn	
	Code	Procedure	Location	Start Date	Start Time	Stop Date	Stop Time	Results	Region	Service	🖞 ььд 🖞	
											🧪 <u>E</u> dit	
											— <u>D</u> elete	
	•											
											Custom	
	✓ <u>C</u> hecl	k 🛛 🔚 Save	Sa	ve and E <u>x</u> it	🎯 Prir	nt .	X <u>C</u> lose					ext
	rauma Numi	ber: 201400046	Arrival Date:								A	×

- 2. Provide Location, Start date/time, Stop date/time and Service
- 3. Now fill in the ICD 10 codes, clicking in the ICD 10 AM text box will open a popup screen which allows you to search for the codes as shown below.

Contractor Name	Total Delay and		And Angle And Angle
	Proceedures Record Edit Navigate Location Decating Rook Series Trans ICONIAM Decation ICONIAM De	Arekows: Region Arekows: Region Arekows: Region Arekows: Region Arekows: Region Arekows: Status Arekows: Status Arekow	Mensi Seavech Continue Continue Continue Search for Date Search for Date Search for Cristic marking with Search for Discussion stars with more Search for Continue Search for Continue Search

4. Click on the Save button to save the record

Trauma	Data Editor				-10	-	-14		2	_ □	
emographic	Injury Prehosp F	Ref Facility 1	Ref Facility 2	Pt Track	ing ED	Procedures	Diagnos	es Dutcome	QA	Memo ITI	M
								[Ad	id Multiple	Procedures	3
Code	Procedure	Location	Start Date	Start Ti	Stop Date	Stop Time	Results	Region	Serv	👍 Add	T
5321-00 T	ranscatheter embolis	Operating	05/12/20	07:00	05/12/20	10.00	Positive	Abdomen	Traum	/ Edit	1
									1	- Delete	1
									1		-
1								-			
									-		
										0.000	-1
									1	Custom	
✓ <u>C</u> heck	Save n	Save an	d Egit 🕻	🧊 Print	X	Jose				E Erev	Ð
		lin in			1						

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

	C Standard	@ llog				
Report					Edit	Clear
Query	For:	Sel	ect Report]	Edit	Clear
Gather	Grouped By:		Data Table Report Statistics Report DL Report (Advanced) Cancel		Edit	Clear
Output Screen						
C Printer C File	Print Setup	Page Setup	C Output	Printer Codes	Advanced Out	nute

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot

📕 Data Tab	le Editor					
Name: Description: Data Elements	Sort Order [General]	<u>ل</u>	_			
	Field	Δ	Label	Width	Format	🚽 Add 📊
						<u>E</u> dit <u>Delete</u> <u>Move Up</u> <u>Move Down</u> <u>Quick Add</u>
Use	Save Save As	X <u>C</u> lose				

- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_SCENE_TIME
- 10. Select the description field and enter Scene Time
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button
- 14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
EDA_Event	Facility Arrival Date		D0E1Z0
EDA_TM	Facility Arrival Time		D0E1Z0
A_PROC_PR	Across Procedure Code		
A_PROC_PR_AS_TEXT	Across Procedure description	500	
A_PROC_S_EVENT	Across Procedure Start Date		D0E1Z0
A_PROC_S_TM	Across procedure start time		
MINUS(A_PROC_S_EVENT,EDA_EVENT)	Time to theatre in minutes		

DT_CI3_EMBOLIS_G Name: DT_CI3_EMBOL Description: Embolisation > Data Elements Sort Order	T90 - Data Ta DLIS_GT90 90 minutes General	ble Editor			_ _ X
Field	∇	Label	Width	Format	<u>A</u> dd 🚽
MINUS(A_PROC_S_EVENT,E	DA_EVENT) Ti	ime to theatre in mins			
INST_NUM	F	acility Number			
EDA_TM	Fa Fa	acility Arrival Time			💻 <u>D</u> elete
EDA_EVENT	T Fa	acility Arrival Date		D0E1Z0	Movello
A_PROC_S_TM	A	cross Procedure Start Time			
A_PROC_S_EVENT	A	cross Procedure Start Date		D0E1ZE	Move <u>D</u> own
A_PROC_PR_AS_TEXT	A	cross Procedure Description	500		Quick Add
A_PROC_PR	A	cross Procedure Code			
Use A Save Sav	e <u>A</u> s X <u>C</u> lose				

15. Click on General tab and click CSV option and also select Include Column Headings tickbox

- 16. Click on Use which will close this screen
- 17. Click on the File radio button in Output section
- 18. Click on the File Folder button will open the "Select File" screen
- 19. Provide the file name (also put a .CSV) at the end of file name
- 20. In the Across Dropdown select Procedures

DT_CI3_EMBOLIS_GT90 - Data Table Editor	_ 🗆 X
Name: DT_CI3_EMBOLIS_GT90 Description: Embolisation > 90 minutes	
Data Elements Sort Order General	
Title:	
SubQuery	
C Tabular	
CSV Include Column Headings Include Column	
Defatic Filename:	
Across: Procedures	

21. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen



22. Click on Save and Use and the screen will close and the following screen will show up. The report name will be filled in the Report Section

Queries

1. Select Query edit button on the main screen on Report Writer

📰 Run Report	
🍰 DI Report Writer	
Report Image: Standard Image: User Image: DT_CI3_EMBOLIS_GT90 Across Procedures	EditClear
Query For:	Edit Clear
Gather	Edit Clear
Output	Advanced Outputs
▶ Run ' ≥ Count I Report Options S Reset X Close	se

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			_		X
Name:					
Description:					
Query Fields General					
Select records that match	🖲 Each 🛛 🔿 One or i	more of the following criteria.			
Column 1	Operator	△ Column 2		4	<u>A</u> dd
				1	<u>E</u> dit
					<u>elete</u>
				Mov	e <u>U</u> p
				Move	<u>D</u> own
				<u>Q</u> u	ick
			<u> </u>		
Use 🔄 Save Save As	(<u>C</u> lose				

- 3. Select the Name field and enter process indicator name Q_CI3_Embolis_GT_90
- 4. Select the description field and enter the desription CI# Embolisation time > 90
- 5. Click the Add button on the right hand side of the screen

👍 👍

Q_CI3_EMBOLIS_GT_90 - Query Editor	
Name: Q_CI3_EMBOLIS_GT_90	
Description: CI3+Embolisation time > 90	
Query Fields General	
Select records that match 💿 🕵 One or more of the following cri	teria.
Column 1 🛛 🔺 Operator Column 2	🚽 Add 👝
MINUS(A_PROC_S_EVENT,EDA_EVENT) > 90	Edi In
PRUC_PR_L_AS_TEXT CONTAINS "EMBOLISATIO	
₩ ₩ ₩	
	Move Up
	Move <u>D</u> own
	Quick

6. Clicking on add button opens the following screen

🧮 User Query Editor			_ 🗆 X
Record Edit Browse			
Column.1	Operator:	Column 2	
✓ <u>O</u> K X Cancel			≱ = ∢ ↓ ▶

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 8 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
MINUS(A_PROC_S_EVENT,EDA_EVENT)	>	90
PROC_PR_L_AS_TEXT	Contains	"EMBOLISATION"

10. The final query will look like this. Once done click on Save button

11. Click on Use will close this screen

📕 Q_CI3_EMBOLIS_GT_90 - Query Edi	tor			_ <u> </u>
Name: Q_CI3_EMBOLIS_GT_90 Description: CI3+Embolisation time > 90 Query Fields General Select records that match © Each	C One or	more of the foll	owing criteria.	
Column 1	Δ	Operator	Column 2	Add
MINUS(A_PROC_S_EVENT,EDA_EVENT)	>		90	E dit
PROC_PR_L_AS_TEXT	CONT	AINS	"EMBOLISATION"	
				<u> </u>
				Move Up
				Move <u>D</u> own
				Quick
Use 🛛 🖶 Save Save As 🗙 Close				

12. The Run Report screen will look like this

Run Report	_ 🗆 🗙
🏂 DI Report Writer	
Report © Standard © User DT_CI3_EMBOLIS_GT90 Across Procedures	EditClear
Query For: Q_CI3_EMBOLIS_GT_90	EditClear
Gather	EditClear
Output O Screen O Printer Print Setup Page Setup Output Printer Codes File U:\ITIM Work\TEST.CSV	Advanced Outputs
Refresh Snapshot	
🕨 🛯 🚬 Beyont 🖉 Report Options 🛛 🌮 Reset	e

13. Click on Run

14. The following screen will popup

Di Report Writer	
Image: Reset Image: Rese	Give a Date Range as appropriate Provide your facility Number

15. Click on OK and the following screen will popup and a CSV file will be created

Status	×
Processing records	98

16. A CSV file will be saved in the location you have specified

Appendix 4: PI - 4 workflow

Collector workflow

- 1. Go to Pt. Tracking section
- 2. In this example there are two rows which shows the Location as Intensive Care Unit
- 3. Go to the line where Location is Intensive Care Unit(as marked in the screenshot, the third line shows that the patient was readmitted to Intensive Care Unit)

Int	ensive Care Unit		and the second se		the second se	a speare tante	1900 01 600	1000	DDA to
20.41			09/08/2016	21:54	12/08/2016	11:36	2 Days 13:42	216	Are
Hg	gh Dependency Unit	19	12/09/2016	11:36	16/08/2016	11:07	Time < 0	250 _	For
lint	tensive Care Unit		16/08/2016	11:07	19/08/2016	10:03	2 Days 22 56	223	- Delete
1								+	
arvice Trackin	a								
S	ervice	Arrival Date	Arrival Time	Depart Date	Depart Time		Detail		Add
suma		09/08/2016	17:30	10/08/2016	11:32	1			150
wosurgery		10/08/2016	11:32	12/09/2016	12:22			-	For
									- Delete
1									
								-	
entilator Tracki	ina								
Start Date	Start Time Stop	Date Sto	p Time		Detail		2	_	di Add
/08/2016 1	7:00 12/08	/2016 09:00						1	1000
Incompany of the	1.07 118/08	/2016 09:30	teinb.	baed due to ser	psis in the lung			-	Eat
/08/2016 11	1.01.00								

4. Click on Edit Button

Lec Cede Intensi High D	Location re Care Unit ependency Unit	Annual Dista 05/06/2016 12/05/2016	Annual Time 21:54 11:36	Depart Date 12/08/2016 16/08/2016	Depat Tine 11:36 11:07	Time at Loc 2 Diaps 13.42 Time < 0	Ca 9 641 276 200 100
1	= Location	Tracking		CONTRACTOR OF			- Delete
enice Tracking Servic Autourphy	Loc Code In Anival 11 Departure 11	tensive Care Unit 5/08/2016 21 11	:07				9 6H
	Detail R	eadmitted to ICU do	ae to Septic epi	Cancel		 ▶ ▶	2
wellator Tracking	3013		lin				-
205/2016 17:00	12/06/2016 0	1.00			_		2 East 2 East Delinte

- 5. Add your details to explain why the patient was readmitted to ICU
- 6. Click on Save and Exit
- 7. Go to QA Section and click on System button

🗄 Trauma Da	ata Editor					
Demographic Inj	ury Prehosp F	lef Facility 1 Ref Facilit	y 2 Pt Tracki	ng ED Procedur	es Diagnoses Outcome	QA Memo ITIM
Filters QA Trac	king					
ACS		System	User	Defined		
Тур	e	cdin	T	Occurrence Date	QA	/ Edit
						Delete
V Check	Save	Save and Exit	@ Print	X Dose		Prev D1
auma Number	Anis	val Date: 6/1/2016	10			A

- 8. The following screen will popup.
- 9. Click on the Unexpected ICU admission (Filter 8513)
- 10. Fill in the date
- 11. Click on QA Tracking
- 12. Click on OK
- 13. The popup screen will close

System Filters			x
Missed injuries (Filter 9007)	Г		
📶 Unexpected ICU readmission (Filter 8513)	Г		
Unexpected return to OR (Filter 8506)	Γ		
Provident - Non preventable (Filter 8540)	Γ		
Death Potentially Prevent (Filter 8550)	Г		
Death - Preventable (Filter 8530)	Γ		
Г	Г		
Г	Г		
Г	Г		
Г	Г		
Г	Г		
Г	Г		
Г	Г		
	Г		
Г	Γ		
Г	Г		
Г	Γ		
Г	Г		
Г	Γ		
Г	Г		
If Other		Date 16/08/2016 💦	
8513 Unexpected Readmission to ICU			
		2	
KX_Cancel			
C			

- 14. The QA filter you just save will be shown as below
- 15. Click on Edit button

📕 Trauma Data	Editor				_ D X
Demographic Injury	Prehosp Ref Facility 1 Ref Facility 2	Pt Tracking ED	Procedures Dia	gnoses Outcome QA	Memo ITIM
Filters QA Tracking	1				
		-			
ACS	System	User Defined		1	-
System	Error in Diagnosis	16/08/2016	e Date UA		EdR
-					<u>Delete</u>
1					
✓ <u>C</u> heck	Save Save and Exit (∯Print X	Qlose		Prev Next
Trauma Number:	Arrival Date: 6/1/2016				A.

- 16. A popup screen will come up as shown below
- 17. Click on Select Code

E Filters	
Record Edit Browse	
C ACS @ System C User Defined	
Select Code	
Date (16/08/2016 20	
17 GA Tracking	
Readmitted due to Septic episode	×
✓ Deck ✓ Save and Eat X Cancel	

- 18. Add 8513 in the screen as shown below
- 19. Click on OK



20. The popup screen will close and the following screen will appear and the text box in front of the Select Code button will have the text filled in "Unexpected Readmission to ICU"

Select Code Unexpected Readmission to ICU

- 21. Add the details as to why the readmission to ICU was required
- 22. Click on Save and Exit

📰 Trauma Data	s Editor	- 0 X
Demographic Injury	Prehosp Ref Facility 1 Ref Facility 2 Pt Tracking ED Procedures Diagnoses Dutcome QA	Memo ITIM
ACS Type System		Ede Delote
Check	Save Save and Ept Print X Dose	Prev Next

- 23. The following Screen will appear
- 24. Click on Save and Exit to save the record and exit.

	and the second se	and a second	the second s				1	-
emographic In	njury Prehosp	Ref Facility 1 Ref Facili	ty 2 Pt Tracking ED	Procedures	Diagnoses Outo	ome QA	Memo IT	IM
Rers QA Trac	cking							
ACS		System	User Defined				_	
Ту	pe	Code	Occurrent	e Date	QA		1	fb
ystem		Unexpected Readmission	to ICU 16/08/2016		Yes		- De	alata
							- 20	sieve
✓ Qheck	Save	Save and Est	∰ Print X	Jose			1 Brev	
Report Writer Workflow

Data Table Report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

📰 Run Report	_ D X
I Report Writer	
Report Standard © User	Edit Clear
Query For: Select Report.	Edit Clear
Gather Grouped By: Cancel	Edit Clear
Output C Screen C Printer Print Setup Page Setup Output Printer Codes C File	Advanced Outputs
Refresh Snapshot	
▶ Run '*, Count 🛐 Report Options 😂 Reset	X <u>C</u> lose

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_CI_4_REPORT
- 10. Select the description field and enter CI4 Report
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 11 and 12 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
TRAUMA_NUM	Trauma ID		
AGE_RPT	Age		
EDA_DT	Facility Arrival Date		D0E1Z0
FLT_CDE_L_AS_TEXT	QA Description		
FLT_CDE_L	Filter Code		

15. Click on General tab and click CSV option and also select Include Column Headings tickbox

DT_CI_4_REPORT - Data Table Editor	
Name: DT_CI_4_REPORT Description: CI4 report	
Data Elements Sort Order General	
Title:	
SubQuery	
Output Type O Tabular	
© CSV Include Column Headings I Launch Excel	
Across: Procedures	
Use Save Save As X Close	

- 16. Click on Use which will close this screen
- 17. Click on the File radio button in Output section
- 18. Click on the File Folder button will open the "Select File" screen
- 19. Provide the file name (also put a .CSV) at the end of file name
- 20. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

E das Feger	×		
😹 DI Report Writer			
Report Standart P User DT_D_UERFORT	-1		
Query Fac	A Select File		
	Inke TIM	8 ct II-	
Gather GroupedSy	Name -	+ Date modified + Type	+ See + +
Edt D	Committees	7/06/2017 2:57 PM File folder	
	Contacts	7/96/2017 2:12 PM File folder	
Outur	Correspondence	7/06/2017 3:37 PM File folder	
C Sceen	Cultural Respect	72/92/2017 11:29 A File folder	
Perier Harristen Page Salap Dubuk Pierce Cot	👔 Deta	7/96/2017 11:50 AM File folder	
Church The wavered optim	Line Digital Innovation	18/04/2017 1:07 PM File folder	
Variation 1	🗼 Disaster	20/11/2012 10:00 A File folder	
	🗼 Education	28/03/2017 12:08 P File folder	
D Fun ** Court I Report Oriens O Report X Date	EMST	18/07/2013 3:31 PM File folder	
	L Endnote	21/03/2014 3:04 PM File folder	
	🗼 HR	2/05/2017 11:05 AM File folder	
	👔 Images	4/05/2017 8x85 AM File folder	-1
	Rename CAUNERPTC.RT.CO.	avi N	Cooghin
	Res of type:	*	- Cancel

🧮 DT_CI_4_REPORT - Data Tabl	e Editor			
Name: DT_CI_4_REPORT Description: CI4 report Data Elements Sort Order General	<i>,</i>			
Field	Label	Width 🛆	Format	Add 🚽
INST_NUM TRAUMA_NUM AGE_RPT EDA_DT FLT_CDE_L_AS_TEXT FLT_CDE_L	Facility Number Trauma ID Age Facility Arrival Date QA Description Filter Code		DOE 1ZO	<u>Edit</u> <u>Delete</u> <u>Move Up</u> <u>Move Down</u> <u>Quick Add</u>
Use Save Save As X (Close			

Query

1. Select Query edit button on the main screen on Report Writer

📕 Run Rep		×
2 D	DI Report Writer	
Report	C Standard @ User	_
111	IDT_O_4_REPORT Edt One	
Query	For:	
Gather	Grouped By	
10		
	·	
Output C Screens		
C Parter	Print Settig: Page Setup E Output Printer Codes	
6 File	U.VTIM WeRNTEST CSV Advanced Outputs	
Entration Serve	wohot.	
P Bun	Ta Court I Report Options Report X Done	

2. Clicking the Query edit button opens the following screen

📰 Query Editor	. [×
Name:			
Description:			
Query Fields General			
Select records that match 💿 Each 🔿 One or more of the following criteria.			
Column 1 Operator 🛆 Column 2		i e	<u>∖</u> dd
		/	<u>E</u> dit
	_	<u>D</u>	elete
	M	love	: <u>U</u> р
	Mo	ove <u>(</u>	<u>)</u> own
		<u>Q</u> ui	ck
	·		
Use 🔄 Save As X Close			

- 3. Select the Name field and enter process indicator name Q_CI4_UNEXPTC_RT_ICU
- 4. Select the description field and enter the desription CI4 Unexpected return to ICU
- 5. Click the Add button on the right hand side of the screen



6. Clicking on add button opens the following screen

🧱 User Query Editor			_ 🗆 X
Record Edit Browse			
	Operator:	Column 2]
✓ <u>O</u> K X Cancel			

7. Enter the first query field into Column 1, Operator and Column 2 as per table below

Column 1	Operator	Column 2
ANY(FLT_CDE)	=	8513

8. Once compete select ok

🗸 <u>о</u>к

9. The final query will look like this. Once done click on save button.

Q_CI4_UNEXPTC_RT_ICU - Query Editor	_ 🗆 X
Name: Q_CI4_UNEXPTC_RT_ICU Description: CI4 Unexpected return ICU Query Fields General Select records that match • Each • One or more of the	ollowing criteria.
Column 1 V Operator Column	n 2 📫 Add
ANY(FLT_CDE) = 8513	
	 Move <u>Up</u>
	 Move <u>D</u> own
	 Quick
	Þ
Use Save Save As X Close	

10. Click on Use which will close this screen

11. Once the report and the query has been filled in, click on Run to run the report

🔳 Run Rep	ort	_ 🗆 X
🦂 D	I Report Writer	
Report	Standard O User DT_CI_4_REPORT Across Procedures	EditClear
Query	For: Q_CI4_UNEXPTC_RT_ICU	EditClear
Gather	Grouped By:	EditClear
Output O Screen O Printer O File	Print Setup Page Setup Output Printer Codes	Advanced Outputs
Refresh Sna	ashot	
▶ <u>B</u> un	report <u>Options</u> Reset X <u>C</u> los	e

12. The following screen will popup where you can set the filters for your report as shown below.

E fue Report	
DI Report Writer	
I Run Report	
Trauma Number: Arrival Date: Discharge Date: 7.7 Record Status: Active Closed Facility: 1212 St Vincent's Hospital Population Queries Query Clear Clear Clea	Give a Date Range as appropriate Provide your facility Number

13. Click on OK and the following screen will popup and a CSV file will be created.



14. A CSV file will be saved in the location you have specified.

Appendix 5: PI - 5 workflow

Collector workflow

- 1. Select the QA tab in collector
- 2. Click on System button

encographic Inser Prehoop Ref Facely 1 Ref Facely 2 Pr Tracking ED Procedures Diagnoses Outcome QA Memo ITM Rers QA Tracking ACS System User Defined Image: Construction of QA Memo ITM Type Occurrence Date QA Image: Construction of QA Memo ITM	Trauma Data E	ditor			_ 0 ×
ACS System. User Defined. Type Occurrence Date QA © Deck Save and Egt Print X Sloce Print Ber Print Score	emographic Injury	Prehosp Ref Facility 1 Ref Fac	oity 2 Pt Tracking ED Procedu	res Diagnoses Outcome QA	Memo ITIM
ACS System. User Defined. Type Occurrence Date DA	iters QA Tracking				
Type Occurrence Date QA Qelet	ACS	System	User Defined		
	Type	(h)	Occurrence Date	QA	/ Edit
✓ Sheck Save and Egt Plint X Slose Dev P		~			- Delete
✓ <u>Check</u> Save and Egt					
<u>✓ Check</u> Save and Egt					
✓ <u>Oneck</u> Save and Egt J Print X <u>Close</u>					
✓ <u>Oneck</u> Save and Egt J Print X <u>Oose</u>					
✓ <u>Oneck</u> Save and Egt @ Print X <u>Oose</u> ① Prev D					
✓ Qheck Save and Egt Ø Print X Qose ① Prev D					
✓ Qheck Save and Egt @ Print X Qose ① Prev D					
✓ <u>Check</u> Save and Egt J Print X <u>Close</u> Print Print					
✓ <u>Check</u> Save and Egt J Print X <u>Close</u>					
✓ Check Save and Egt @ Print X Close Dev P					
✓ Check Save and Egt @ Pint X Close @ Pint					
• Sue and the state of the stat					
ana Number Anizal Date	Charle E	Cana Cana and Fuel	Gipin X Chun		D Pres D A

- 3. Go to "In Other" section in the System Filters screen
- 4. Enter the System Indicator by clicking in the small text box and the System Indicators screen will pop up which allows you to search and select the System Indicators.
- 5. Click OK once you have found the System Indicator which you want to use



6. Once you click on OK the information will be recorded as shown below

ACS Type		System Code	User Defi	ned currence Date	QA	/ E	dit
ystem	P	ressure Ulcer-Stage I				- Del	lete

7. Click on Edit button to add more information

ACS	System.	User Defined.
Type	Code	Occurrence Date QA
stem	Putronary Embolus	- Direto 🚽
		Record Edit Browse
		Select Code Pressure Ulcer Stage I
		C QA Tracking
🗸 Dheck 🛛 🔛	Save Save and Egit	Free text to record more information

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

Report	C Standard	(F User		Edit	Clear
Query	For	Select Repo	Report n	Edk	Clear
Gather	Grouped By:	BDL Report (Report Advanced)	Edit	Clear
utput Screen Printer File	Print Setup	Page Setup	T Output Printer Codes	Advanced (Dutputs

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot

📕 Data T	able Editor					
Name: Description: Data Element	Sort Order Gen	eral)	<u>ل</u>			
	Field	Δ	Label	Width	Format	🚽 🗛 👍
						<u>E</u> dit <u>Delete</u> <u>Move Up</u> <u>Move Down</u> <u>Quick Add</u>
<u>U</u> se	Save Save A	s 🗙 <u>C</u> lose				

- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_ COMPLICATIONS
- 10. Select the description field and enter CI Complications
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button
- 14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
TRAUMA_NUM	Trauma ID		
GENDER_AS_TEXT	Gender		
AGE_RPT	Age		
EDA_DT	Facility Arrival Date		D0E1Z0
A_FLT_CDE	Complication Code		

- 15. Once you have selected all data elements for your report select the General Tab in the same screen
- 16. Ensure that the CSV, Include Column Heading and Launch Excel options are ticked
- 17. Click on the Across drop down and select QA/Filters
- 18. Click on Save
- 19. Click on Use

DT_CI5_COMPLICATIONS - Data Table Editor	<u> </u>
Name: DT_CI5_COMPLICATIONS Description: CI5 Complications Report	
Data Elements Sort Order General	
Title:	_
SubQuery	_
Output Type C Tabular	
CSV IV Include Column Headings IV Launch Excel	
Default Filename:	_
Across: QA/ Filters	
Use Save Save As X Close	

20. The Run Report screen will now show the name of the report which you have just created

🧮 Run Report					_ 🗆 X
🌛 DI	Report	Writer			
Report DI Act	Standard [_CI5_COMPLICATIO ross QA/ Filters	♥ User NS			Edit Clear
Query	:				Edit Clear
Gather	ouped By:				Edit Clear
Output Screen Printer File Refresh Snapshot	Print Setup	Page Setup	🔲 Output Printer Co	odesAdv.	anced Outputs
▶ <u>B</u> un	"≊ _a Coun <u>t</u>	Report Options	🔁 Re <u>s</u> et	X Close]

Query

1. Select Query edit button on the main screen on Report Writer

📰 Run Rep	ort	
🤞 D	I Report Writer	
Report	C Standard @ User [D1_O_4_REPORT Across Procedures	Ona
Query	For:	Edit Clear
Gather	Grouped By	tat Ores
Dulput C Screen C Preter C File	Pres Server Page Server Codes	Advanced Outputs
Feliew Sea	oner_	
D Bun	** Court Depart Options Of Repet	Done

2. Clicking the Query edit button opens the following screen

📰 Query Editor	_ □	X
Name:		
Description:		
Query Fields General		
Select records that match 📀 Each 🔿 One or more of the following criteria.		
Column 1 Operator 🛆 Column 2		<mark>⊨</mark> <u>A</u> dd
		🖊 <u>E</u> dit
	_	■ <u>D</u> elete
	M	love <u>U</u> p
	Mo	ve <u>D</u> own
		<u>Q</u> uick
	١	
Use Save Save As X Close		

- 3. Select the Name field and enter process indicator name Q_CI5_COMPLICATIONS
- 4. Select the description field and enter the desription CI5 Complications Query
- 5. Click the Add button on the right hand side of the screen

👍 👍

6. Clicking on add button opens the following screen

📰 User Query Editor	
Record Edit Browse	
Column	Column 2
✓ <u>0</u> K X Cancel	

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 8 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ANY(FLT_CDE, Select Code(Query)	=	7502
ANY(FLT_CDE, Select Code(Query)	=	6502
ANY(FLT_CDE, Select Code(Query)	=	6503
ANY(FLT_CDE, Select Code(Query)	=	6505
ANY(FLT_CDE, Select Code(Query)	=	3014
ANY(FLT_CDE, Select Code(Query)	=	3008
ANY(FLT_CDE, Select Code(Query)	=	5507
ANY(FLT_CDE, Select Code(Query)	=	5501
ANY(FLT_CDE, Select Code(Query)	=	5509
ANY(FLT_CDE, Select Code(Query)	=	6509

10. Once compete select ok



11. The final query will look like this. Once done click on save button.

12. Click on Use which will close this screen

13. Once the report and the query has been filled in, click on Run to run the report

🔳 Run Rep	ort	_ 🗆 X
🛃 D	I Report Writer	
	O Standard O User	
Report	DT_CI5_COMPLICATIONS Across QA/ Filters	Edit Clear
Query	For: Q_CI5_COMPLICATIONS	Edit Clear
Gather	Grouped By:	Edit Clear
Output • Screen		
C Printer C File	Print Setup Page Setup Dutput Printer Codes	vanced Outputs
Refresh Snap	ishot	
▶ <u>B</u> un	📊 🚬 Count 🕼 🖾 Report Options 😂 Re <u>s</u> et 🛛 🗙 <u>C</u> lose	

14. The following screen will popup where you can set the filters for your report as shown below.

E fun Report	_ DIX	
DI Report Writer		
📰 Run Report		
Trauma Number: Arrival Date: Discharge Date: Pecord Status: Active Closed Facility: 1212 St Vincent's Hospital Population Queries Query Clear Clear Cl		Give a Date Range as appropriate Provide your facility Number

15. Click on OK and the following screen will popup and a CSV file will be created.

Status		X
Processing records		98
	Abort	

A CSV file will be saved in the location you have specified.

List of Complication codes

Complication	QA_CODE
Esophogeal Intubation	1002
Other Airway Issue	1099
Esophageal Intubation	2501
Extubation, Unintentional	2502
Mainstem Intubation	2503
Acute Respiratory Distress Syndrome (ARDS)	3002
Aspiration/Pneumonia	3003
Empyema	3005
Fat Embolus	3006
Retained Hemothorax	3007
Pneumonia (Infection)	3008
Pneumothorax (Barotrauma)	3009
Pneumothorax (latrogenic)	3010
Pneumothorax (Recurrent)	3011
Pneumothorax (Tension)	3012
Pulmonary Embolus	3014
Other Pulmonary	3099
Cardiac Arrest	3502
Myocardial Infarction (MI)	3503
Other Cardiovascular	3599
Dehiscence/Evisceration	4003
Fistula (Other than Pancreatic)	4005
GI Hemorrhage	4006
Other GI	4099
Pancreatitis	4505
Splenic Injury (latrogenic)	4506
Other Hepatic/Biliary (Includes Biliary Stasis and Cholelithiasis)	4599
Coagulopathy (Other)	5002
Other Hemotologic	5099
Wound Infection-Cellulitis/Traumatic	5501
Intra-Abdominal Abcess	5503
Necrotizing fascitis	5505
Bacteremia	5507
Surgical Wound Infection (Not Orthopedic)	5509
Other Infection	5599
Renal Failure	6001

Urinary Tract Infection (UTI) Early	6003
Urinary Tract Infection (UTI) Late	6004
Other Renal/GU	6099
Compartment Syndrome	6501
Pressure Ulcer-Stage I	6502
Pressure Ulcer-Stage 2	6503
Pressure Ulcer-Stage 3	6504
Pressure Ulcer-Stage 4	6505
Failure of Fracture Fixation	6506
Osteomyelitis	6508
Orthopedic Wound Infection	6509
Rhabdomylosis	6510
Other Musculoskeletal / Integument	6599
Alcohol/Drug Withdrawal	7001
Diabetes Insipidus	7004
Other Neuorlogic	7099
Deep Vein Thrombosis (DVT), Lower extremity(s)	7502
Graft Infection	7506
Thrombosis and/or Embolus	7507
Other Vascular	7599
Pyschiatric Issue	8001
Anesthetic Complication	8501
Hypothermia	8504
Unexpected Post-Operative Hemorrhage	8508
Managed Care Issue	8510
Referring Facility Complication (Not Prehospital)	8515
Other Miscellaneous Hospital Issue	8599
Other - Hospital Nursing Issues	9104
Fluid resus issues (in hosp)	900502

Appendix 6: PI - 6 workflow

Collector workflow

- 1. Select Procedure tab
- 2. Select add button below the add multiple procedures button



3. Clicking on Add button opens the following screen

I Procedure	_ □	×
Record Edit Browse		
Location		
Start Date/Time Stop Date/Time		
Results 🗾		
Service 🔽		
Narrative	×	
✓ Check ✓ Save and Exit X Cancel 2 of 2		

4. Ensure you have filled the mandatory fields as shown below

Procedure		
Record Edit Browse		
Procedure Code 30373-00 Exploratory laparotomy		
Location Operating Room 🖵		Mandatory fields
Start Date/Time 07/12/2016 I 10:00 Stop Date/Time 07/12/2016 I 13:00		Endedure Code Location Start Date/Time
Results		Stop Date/ fille
Anatomic Region		
Service		
Narrative	A	
Check Save and Exit Cancel		
1 of 1		

- 5. Enter the procedure code
- 6. Enter Location
- 7. Enter start Date/Time of all procedures
- 8. Enter any relevant details in relation to the procedure in the injury narrative box

✓ Save and E<u>x</u>it

- 9. Select Save and Exit
- 10. If patient has returned to the operating room for any other complications that was not anticipated then select "QA Screen"
- 11. Select Filters
- 12. Select System Filters

Trauma Data Editor	Rel Facility 1 Rel Facility 2	Pt Tracking ED 1	Procedures Diagnoses Outcom	
ACS	System.	User Defined	Date DA	
		occarence i	e dev	- Relete
	1			
Trauma Number	Save and Egit Q Amival Date:	2 Print X Clo	ite	Brev D Next

13. Clicking on System filter button opens the following screen

System	Filters			X
	Missed injuries (Filter 9007)	Г		
	Unexpected ICU readmission (Filter 8513)			
	Unexpected return to OR (Filter 8506)	Г		
	Death - Non preventable (Filter 8540)	Г		
	Death Potentially Prevent (Filter 8550)			
	Death - Preventable (Filter 8530)	Г		
Г				
Г		Г		
Г				
Г		Г		
Г		Г		
		Г		
		Г		
		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
	her		Date 🗾 🗹	
-	<u>OK</u>			

14. Click the box "unexpected return to OR" or alternatively enter 8506 code 15. Enter "Date"



16. Select OK

Report Writer workflow

Data Table Report

- 1. Open Report Writer
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

📰 Run Report			
🍰 DI Repoi	rt Writer		
Report Standard	C User	Edit	lear
Query	Select Report X		lear
Gather	<u>Statistics Report</u> <u>R</u> DL Report (Advanced <u>X</u> Cancel		lear
Output © Screen © Printer Print Setup © File	Page Setup 🔽 Output	ut Printer Codes	
Refresh Snapshot			
▶ <u>R</u> un '≥ _a Co	unt 🛛 🛐 Report Options 📄 😂 Re	Reset X Close	

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_CI6_UNEXPTED_RTN_OR
- 10. Select the description field and enter CI6_unexpected return to OR
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Field	Label	Width	Format
INST_NUM	Facility Number		
INST_NUM_AS_TEXT	Facility Name		
EDA_EVENT	Facility Arrival_Y4	20	D0E1Z0
AGE_RPT	Age		
E_CODE_1_AS_TEXT	Mechanism		
ISS_RPT	ISS		
DIS_STS_RPT_AS_TEXT	Outcome		
A_PROC_PR_AS_TEXT	Procedure Code		

CI6_UNEXPTD_RTN_OR - Da Name: CI6_UNEXPTD_RTN_OR Description: CI6_unexpected return to 0	ta Table Editor	_	
Data Elements Sort Order General	₩ Label	Width A Format	ا بده به
	Facility Number	- Tolliac	
INST_NUM_AS_TEXT	The Lines Depart Date Table Ed		- 🧷 <u>E</u> dit 🥌
EDA_EVENT	Ser Report Data Table Ed.		<u> </u>
AGE_RPT	Record Edit Browse		Movellp
E_CODE_1_AS_TEXT			
DIS STS BPT AS TEXT	Field INST_NUM		Move <u>D</u> own
A PROC PR AS TEXT			Quick Add
	Label: Facility Number		
	Width:		
	Format		
•	🗸 OK 🛛 🗙 Cancel 🛛 🍦		
Use 📓 Save Save As 🗙			

15. Click on General tab and click CSV option and also select Include Column Headings tickbox

CI6_UNEXPTD_RTN_OR - Data Table Editor	
Name: CI6_UNEXPTD_RTN_OR Description: CI6_unexpected return to OR	
Data Elements Sort Order General	
Title:	
SubQuery	
Output Type O Tabular	
CSV I Include Column Headings I Launch Excel	
Across: Procedures	
Use Save Save As X Close	

- 16. Click on Save
- 17. Click on Use which will close this screen
- 18. Click on the File radio button in Output section

Run Report	_ 🗆 X
🍰 DI Report Writer	
Report © Standard © User [CI6_UNEXPTD_RTN_OR Across Procedures	Edit Clear
Query For:	EditClear
Gather	EditClear
Output C Screen Printer Print Setup Page Setup Output Printer Codes File U:\\TIM Work\Myreport.csv	Advanced Outputs
▶ <u>R</u> un ' ≥., Coun <u>t</u> I I Report <u>O</u> ptions S Re <u>s</u> et X <u>C</u> los	e

- 19. Click on the File Folder button will open the "Select File" screen
- 20. Provide the file name (also put a .CSV) at the end of file name
- 21. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

Query

1. Select Query edit button on the main screen on Report Writer

🖀 Aun Report	
DI Report Writer	
Report	C++
Query For	Edit Clear
Gather Singer by	Cer
Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Contrast Con	_Advanced Dalpate
Turingh Sugaran	
D Bun Court D freport Options Of Report	X Dires

2. Clicking the Query edit button opens the following screen

🧮 Query Editor			_ 🗆 🗙
Name:			
Description:			
Query Fields General			
Select records that match	Each One or	more of the following criteria.	
Column 1	Operator	△ Column 2	- <u></u> Add
			🖉 <u>E</u> dit
			<u>D</u> elete
			Move Up
			Move <u>D</u> own
			Quick
Use 🔄 Save Save As	Close		

- 3. Select the Name field and enter process indicator name Q_UNEXPECTED_RTN_OR
- 4. Select the description field and enter the desription Unexpected return to OR
- 5. Click the Add button on the right hand side of the screen

👍 Add

6. Clicking on add button opens the following screen

🧱 User Query Editor			_ 🗆 X
Record Edit Browse			
	Operator:	Column 2	
✓ <u>O</u> K X <u>C</u> ancel			

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 8 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ANY(FLT_CDE, Select Code(Query)	=	8506

10. Once compete select Ok on the User Query Editor screen

📰 User Query Editor			
Record Edit Browse			
Column 1 [ANY(FLT_CDE)	Operator =	Column 2 6502	_

11. The final query will look like this. Once done click on save button.

📰 Q_CI6	_UNEXPCTD_RT_OR ·	- Query Editor		
Name: Description:	Q_CI6_UNEXPCTD_RT CI6 Unexpected Rtn to C	<mark>OR</mark> DR		
Query Freids	Select records that match	⊙ Each ⊂ One or n	nore of the following criteria.	
	Column 1 🛛 🗸 🗸	Operator	Column 2	🚽 Add
ANY(FLT_C	DE)	=	8506	 🥖 <u>E</u> dit
				💻 <u>D</u> elete
				Move <u>U</u> p
				Move <u>D</u> own
				<u>Q</u> uick
<u>U</u> se	Save Save As	K <u>C</u> lose		
	🛩 🖕			

- 12. Click Save
- 13. Click on Use which will close this screen
- 14. Once the report and the query has been filled in, click on Run to run the report

I Run Report	_ 🗆 X
🌛 DI Report Writer	
C Standard C User DT_SCENE_TIME	EditClear
Query Q_SCENETIME_GT_20	EditClear
Gather	Edit Clear
Output © Screen © Printer Print:Setup Page Setup © Output Printer Codes © File	Advanced Outputs
Refresh Snapshot	e
Gather Grouped By: Output Image: Second	Edit Clear

15. The following screen will popup where you can set the filters for your report as shown below.

E Fun Report		
DI Report Writer		
📰 Run Report		
Trauma Number: Arrival Date: Discharge Date: 7 / 1 0 7 / 2 1 Record Status: Active Closed Facility: 1212 St Vincent's Hospital Population Queries Query Clear Query Clear Query Clear Query Clear Query Clear Query Clear Query Clear Query Clear Query Clear		Give a Date Range as appropriate Provide your facility Number
D Sun **, Court I Report Sphine D Report	X Date	

16. Click on OK and the following screen will popup and a CSV file will be created.

Status	×
Processing records	98
Abort	

A CSV file will be saved in the location you have specified.

Appendix 7: PI - 7 workflow

Collector workflow

- 1. Select QA tab
- 2. Select Filters
- 3. Click on System... button



4. Clicking on system filter button opens the following screen

System	n Filters			X
Г	Missed injuries (Filter 9007)	Г		
	Unexpected ICU readmission (Filter 8513)	Г		
Г	Unexpected return to OR (Filter 8506)	Г		
	Death - Non preventable (Filter 8540)	Г		
	Death Potentially Prevent (Filter 8550)	Г		
	Death - Preventable (Filter 8530)	Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
Г		Г		
_ If Ot	her	1	Date 🗾	
			🗖 QA Tracking	
1	OK X Cancel			

- 5. Click the box "Missed injuries" bok or or enter 9007 in the other field
- 6. Enter "Date"

Systen	n Filters			X
•	Missed injuries (Filter 9007)	Г		
	Unexpected ICU readmission (Filter 8513)	Γ		
	Unexpected return to OR (Filter 8506)	Г		
	Death - Non preventable (Filter 8540)	Г		
	Death Potentially Prevent (Filter 8550)	Γ		
	Death - Preventable (Filter 8530)	Γ		
		Γ		
Г		Γ		
		Γ		
		Г		
		Γ		
		Г		
Г		Г		
		Г		
		Г		
		Г		
		Г		
		Γ		
			Date 11/08/2016 🗾	
	9007 [Error in Diagnosis		🗖 QA Tracking	
_ ✓	<u>OK</u> <u>X</u> <u>C</u> ancel			
	✓ <u>о</u> к			

- 7. Click OK
- 8. Click Save

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

Report	C Standard	C User	Edt Clea
Query	For	Select Report	Edt Clea
Gather	Grouped By	Statistics Report	Edit Clea
ulput Screen Printer File	Print Setup	Page Setto	advanced Dutrate

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_MISSED_INJURY
- 10. Select the description field and enter Missed injury
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Fields	Description	Format
INST_NUM	Facility number	
INST_NUM_AS_TEXT	Facility Name	
EDA_DT	Facility Arrival Date	D0E1Z0
ED_TM	Facility Arrival Time	
AGE_RPT	Age	
E_CODE_1_AS_TEXT	mechanism	
ISS_RPT	ISS	
DIS_STS_RPT_AS_TEXT	Outcome	
A_FLT_CDE	QA filter code	
A_FLT_CDE_AS_TEXT	QA filter as text	
FLT_O_DT_L	QA filter occurrence date	D0E1Z0

- 15. Once compete select ok
- 16. Click on General tab and
- 17. click CSV option and also select Include Column Headings tickbox
- 18. Click Save

DT_MISSED_INJURY - Data	a Table Editor			
Name: DT_MISSED_INJURY Description: Missed Injury Data Elements Sort Order Generar				
Field	Label	Width 🛆	Format	Add 🚽
INST_NUM	Facility Number			
ENTRY_SYS_AS_TEXT	Entry (not T/F)			
EDA_DT	ED arrivial date		DOE1Z0	💻 <u>D</u> elete
E_CODE_1_AS_TEXT	mechanism			Movello
ISS_RPT	ISS			0
DIS_STS_RPT_AS_TEXT	outcome			Move <u>D</u> own
A_FLT_CDE	QA filtercode			Quick Add
A_FLT_CDE_AS_TEXT	QA Filter as text			
FLT_O_DT_L	QA filter occurance		D0E1Z0	
	X. <u>C</u> lose			

19. Click on Use which will close this screen

DT_MISSED_INJURY - Data Table Editor	_ D X
Name: DT_MISSED_INJURY Description: Missed Injury	
Data Elements Sort Order General	
Title:	
SubQuery	
Output Type © Tabular	
CSV I Include Column Headings I Launch Excel	
Across:	

- 20. Click on the File radio button in Output section
- 21. Click on the File Folder button will open the "Select File" screen
- 22. Provide the file name (also put a .CSV) at the end of file name
- 23. Click on Open and the "Select File" screen will close and the name of the file will appear in the Run Report" screen

📰 Run Report	
🍰 DI Report Writer	
C Standard © User DT_MISSED_INJURY	EditClear
Query For:	EditClear
Gather Grouped By:	Edit Clear
Output C Screen C Printer Print Setup Page Setup Dutput Printer Codes File U:\\TIM Work\Myreport.csv	Advanced Outputs
Refresh Snapshot	
▶ <u>R</u> un ¹ ≥ , Count S Report <u>O</u> ptions S Reset × <u>C</u> lo	se

Query

1. Select Query edit button on the main screen on Report Writer

E Aux Report	
🛁 DI Report Writer	
Report	
Query For	Edit Clear
Gather Grantly	
Culput C Screen C Parter P Falle F Falle F Talle D VTHY Work CUL, Screen TreeProport CDV	Advanced Dataset
Partnett Sequence	× Daw

2. Clicking the Query edit button opens the following screen

📰 Query Editor	_		×
Name:			
Description:			
Query Fields General			
Select records that match 📀 Each 🔿 One or more of the following criteria.			
Column 1 Operator 🛆 Column 2		-	<u>A</u> dd
		1	<u>E</u> dit
			elete
		Mov	e <u>U</u> p
		Move	<u>D</u> own
		<u>Q</u> u	ick
	_		
Use 🔄 Save Save As 🗙 Close			

- 3. Select the Name field and enter process indicator name Q_MISSED_INJURY
- 4. Select the description field and enter the desription Missed injury

5. Click the Add button on the right hand side of the screen

📥 👍

6. Clicking on add button opens the following screen

🧱 User Query Editor			_ 🗆 X
Record Edit Browse			
	Operator:	Column 2	
✓ <u>O</u> K X Cancel			<u> </u>

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 9 and 10 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ANY(FLT CDE)	=	9007
DIS_STS_RPT	=	6
ENTRY_SYS	=	1
ANY(AIS_SEV)	>	1

10. Once compete select ok

🖽 Q_MISSED_INJ - Query Edito	r		
Name: Q_MISSED_INJ Description: missed injury Query Fields General			
Select records that m	atch 🖲 Each 🔿 🖸	ne or more of the following criteria.	
Column 1		Column 2	🚽 Add
ANY(AIS_SEV)	>	9007	<u>E</u> dit
DIS_STS_RPT	=	6	💻 Delete
ENTRY_SYS	=	1	 Move Up
			Maus Dawn
			<u>Quick</u>
			•
Use Save Save A	s 🗙 <u>C</u> lose		

- 11. Click on General tab and Select the QA/Filters from the drop down box menu
- 12. Click Save
- 13. Click on Use which will close this screen

Q_MISSED_INJURY - Query Editor	
Name: Q_MISSED_INJURY Description: Missed Injury Query Fields General	
Across: QA/ Filters	
Use Save As X Close	

14. Once the report and the query has been filled in, click on Run to run the report

📰 Run Report	_ 🗆 X
🍰 DI Report Writer	
C Standard O User DT_MISSED_INJURY	EditClear
Query Q_MISSED_INJURY Across QA7 Filters	EditClear
Gather	EditClear
Output C Screen C Printer Print Setup Page Setup Dutput Printer Codes File U:\ITIM Work\Myreport.csv	Advanced Outputs
Refresh Snapshot	
▶ <u>Bun</u> '≊, Count I I Report <u>Options</u> Reset X <u>Close</u>	8

15. The following screen will popup where you can set the filters for your report as shown below.

E Run Report	X	
I Run Report	X	
Trauma Number: to Arrival Date: 01/01/2016 Discharge Date: 7 / Discharge Date: 7 / Record Status: Active Closed Facility: 1212 Population Queries Query Clear Query Clear Query Clear		Give a Date Range as appropriate Provide your facility Number
OK Reset X Cancel	Non 1	

16. Click on OK and the following screen will popup and a CSV file will be created.

Status	X
Processing records	98
Ab	ut]

17. A CSV file will be saved in the location you have specified.
Appendix 8: PI - 8 workflow

Collector workflow

- 1. Select QA tab
- 2. Select Filters
- 3. Click on System... button

📕 Trauma Data E	ditor				_ _ X
Demographic Injury	Prehosp Ref Facility 1 R	el Facility 2 Pt Trackin	g ED Procedures	Diagnoses Outcome QA	Im Memo ITIM
Filters QA Tracking					.
	Custors	l live 0			
Type	System	Oser D	Occurrence Date	IQA.	2 F.O. 1
					Delete
					- Peiere
✓ Check	Save Save and I	st @ Print	X Close		Prev Next
Trauma Number:	Arrival Date:		L		A -

4. Clicking on system filter button opens the following screen

Missed injuries (Filter 907) □ Unexpected ICU readmission (Filter 8513) □ Death - Non preventable (Filter 8540) □ Death - Preventable (Filter 8550) □ Death - Preventable (Filter 8530) □ □ □	System	Filters			X
Unexpected ICU readmission (Filter 8513) Unexpected return to OR (Filter 850) Death - Non preventable (Filter 8530) Death - Preventable (Filt		Missed injuries (Filter 9007)	Г		
Unexpected return to OR (Filter 8506) Death - Non preventable (Filter 8540) Death Prevent (Filter 8530) Death - Preventable (Filter 8530) Deat		Unexpected ICU readmission (Filter 8513)			
□ Death - Non preventable (Filter 8550) □ Death - Preventable (Filter 8530) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Г	Unexpected return to OR (Filter 8506)	Г		
Death Potentially Prevent (Filter 8530) Death - Preventable (Fi		Death - Non preventable (Filter 8540)	Г		
□ Death - Preventable (Filter 8530) □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Г	Death Potentially Prevent (Filter 8550)	Г		
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Γ	Death - Preventable (Filter 8530)	Г		
	Г		Г		
	Г		Г		
	Γ		Г		
	Г		Г		
	Γ		Г		
	Г		Г		
	Г		Г		
	Г		Г		
F F	Г		Г		
Cancel	Γ		Г		
	Г		Г		
If Other Date If Other □ QA Tracking	Г		Г		
If Other Date ☑ QA Tracking ☑ ☑ ✓ QK X Gancel ☑	Г		Г		
If Other Date □ Image: Contracting Image: Contracting Image: Contracting Image: Contracting	Г		Г		
	- If Ot	her		Date 📃	
				🥅 QA Tracking	
✓ <u>D</u> K X <u>C</u> ancel					
V OK X Cancel					
	</td <td>OK Cancel</td> <td></td> <td></td> <td></td>	OK Cancel			

- 5. Click the box correlating to the classification of death.
 - a. "Death Potentially Prevent" box or enter 8550 in the If Other field

- b. "Death Preventable" box enter 8530 in the If Other field
- c. "Death non preventable or enter 8540 in the If Other field
- 6. Enter "Date" and select QA Tracking

Note: when a System Filter item has been selected, the date entered and the QA tracking boxed ticked, selecting auto-trigger tab on the QA tracking screen will populate the item marked for tracking into the QA tracking screen.

- 7. Select QA tracking Tab
- 8. Click Auto Trigger (see note above)



9. The process Indicator Item will be populated as shown below

QA Item or in Disgnosts	Date Open 08/12/2016	Location	Preventability	Loop Closed	
					Pele

- 10. Select CI and click edit
- 11. Clicking on edit button opens the following screen
- 12. Click Check
- 13. Click Save and Exit and the QA Tracking screen will close.

A Nam	Data Open	Locators	Preventability	Loop Cloud		
					- 24	-05
E	9 QA Tracking					
1	ecord Edit Brow	ur or in Diamonis			Data Oneo D	0.02/0016 PT
10	ocation	a nongroup			Loop Closed	
5	ervice Prehespital		<u>×</u>			
Ĩ	Reviewed by		Date	Conment		Code
		-			1	
	1	1				
	11	1			310	1
0.0	Comburng Factors	-1	·			
- 10 Jan		÷.			-	
	Determination IT System I	Related	Prev	Guada		
	IT Provide	/Team Related	Acor	chibility		
	Constant Actor 1			Status		
	CONSCILLATION					

14. Click Save on the following screen

Demographic) Ins. Ellers: QA Track	ta Editor ay Piehosp Rel Fac ng	Ry 1 Rel Facility 2	Pt Tracking) ED	Piscedures) I	Diagnosee Dutcome GA	
	24 hen	Date Open	Location	Prevertability	Loop Doved	- 2 601 2 Edw - Debre Auto Ingger
V Dieck Trauma Number	Save S	ave and Egit	i Piet.	Qiose		Bev Dised

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up (as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

🗒 Run Report	<u> </u>
🌛 DI Report Writer	
Report Standard © User	Edit Clear
Query For: Select ReportX	Edit Clear
Gather Grouped By:	Edit Clear
Output Screen Printer Print Setup Dutput Printer Codes File	Advanced Outputs
Refresh Snapshot	
▶ <u>R</u> un '*, Count S Report <u>O</u> ptions S Reset	X Close

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_PREV_MORTALITIES
- 10. Select the description field and enter CI8 Preventable Mortalities
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Fields	Description	Format
INST_NUM	Facility number	
INST_NUM_AS_TEXT	Facility Name	
EDA_DT	Facility Arrival Date	D0E1Z0
ED_TM	Facility Arrival Time	
AGE_RPT	Age	
E_CODE_1_AS_TEXT	mechanism	
ISS_RPT	ISS	
DIS_STS_RPT_AS_TEXT	Outcome	
A_FLT_CDE	QA filter code	
A_FLT_CDE_AS_TEXT	QA filter as text	
FLT_O_DT_L	QA filter occurrence date	D0E1Z0
QA_ITEM_L_AS_TEXT	QA item as text	
QA_ACPT_L_AS_TEXT	QA item acceptability	
ANY(QA_OPEN_DT)	QA Opened	D0E1Z0
ANY(QA_CLSD_DT)	QA Closed	D0E1Z0



15. Click on General

DT_PREV_MORTALITIES - Data Table Editor	<u> </u>
Name: DT_PREV_MORTALITIES Description: C18 Preventable Mortalities	
Data Elements Sort Order General	
Title:	
SubQuery]
C Utput Type	
CSV Include Column Headings Include Excel	
Default Filename:	
Across: QA/ Filters	
Use Save As X Close	

- 16. Click Save
- 17. Click on Use which will close this screen
- 18. Click on the File radio button in Output section
- 19. Click on the File Folder button will open the "Select File" screen
- 20. Provide the file name (also put a .CSV) at the end of file name
- 21. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

📰 Run Rep	troc	
	I Report Writer	
Report	C Standard (* User	Edi Carr
	Across QA/ Filters	
Query	For	
*	Q_PREVENT_MODALITIES	Edit Clear
1	Across GA/ Filters	
Caller	Grouped By:	
Gather		Edit Clear
S. e.		
C Screen		
C Printer	Plint Setup Page Setup C Output Printer Codes	
File	U:\ITIM Work\Myreport.csv	Advanced Outputs
RetextuSed	pshrk	
D Bun	*. Count I Report Options O Reget X Close	

Query

1. Select Query edit button on the main screen on Report Writer

E Aus Amport	
DI Report Writer	
Report F the	
Query For	EditClear
Gather	
Chappel C Screen C Plane Providence Proje Seriar C Chappel Providence Code P File D 1010 F Workshild, 1, Screen T and Texation CSV	Adverset Supple
Referit Second	
D Ban "+. Court Dfingant Differen Offingent	X Ques

2. Clicking the Query edit button opens the following screen

📰 Query Editor	_		×
Name: Description: Query Fields General			
Select records that match 💿 Each 💿 One or more of the following criteria.			
Column 1 Operator 🗡 Column 2		-	<u>A</u> dd
	- 1	1	<u>E</u> dit
	- 1		elete
	- 1	Mov	e <u>U</u> p
		Move	<u>D</u> own
		<u>Q</u> u	ick
Use 🔄 Save As 🗙 Close			

3. Select the Name field and enter process indicator name Q_PREVENT_MORT

- 4. Select the description field and enter the desription Prevetable Mortalities
- 5. Click the Add button on the right hand side of the screen

🚽 Add

6. Clicking on add button opens the following screen

U	U		
📰 User Query Editor			_ 🗆 X
Record Edit Browse			
Column.1	Operator:	Column 2	
✓ <u>O</u> K X <u>C</u> ancel			<u>≉</u> ■ ◀ ♦ ▶ ▶

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 10 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ANY(FLT_CDE)	=	8530
ANY(FLT_CDE)	=	8550
ANY(FLT_CDE)	=	8540

10. Once compete select ok

Q_PREVENT_MORT - Query Editor	r		
Name: Q_PREVENT_MORT			
Description: Prevetable Mortalities			
Query Fields General	\diamond		
Sectords that match	C Each Cone or more of the	following criteria.	
Column 1	🔺 🤇 🔤 erator Colu	mn 2	- And
ANY(FLT_CDE)	= 8530)	
ANY(FLT_CDE)	= 855()	
ANY(FLT_CDE)	= 8540		<u> </u>
			Move <u>U</u> p
		м	love <u>D</u> own
			<u>Q</u> uick
•		Þ	
Use 🔄 Save Save As	X <u>C</u> lose		

- 11. Click on One or more radio button
- 12. Click on General tab and Select the QA/Filters from the drop down box menu
- 13. Click Save
- 14. Click on Use which will close this screen

Q_PREVENT	T_MORT - Query Editor	_ 🗆 🗙
Mamor		
Description:		
Query Fields		
5	۲m '	
Across:	QA/ Filters	
	2m	
	0	
	Save Save As X Close	
	-0	

15. Once the report and the query has been filled in, click on Run to run the report

🧱 Run Report	_ 🗆 🗙
🍰 DI Report Writer	
Report © Standard © User DT_PREV_MORTALITIES Edit Across QA/ Filters Edit	t Clear
Query For: Image: Comparison of the state of t	tClear
Gather	t Clear
Output C Screen C Printer Print Setup Printer Page Setup Tile M:\UTIM\CL_PREV_MORTALITIES.csv	ed Outputs
Refresh Snapshot	
▶ Run and San Count Report Options Reset X Close	

16. The following screen will popup where you can set the filters for your report as shown below.

E Run Report	_ D X	
DI Report Writer		
💼 Run Report		
Trauma Number: Arrival Date: Discharge Date: Trauma Number: Discharge Date: Trauma Number: Trauma Number: Discharge Date: Trauma Number: Trauma Number: Discharge Date: Trauma Number: Trauma Number: Tr		Give a Date Range as appropriate Provide your facility Number
D Bun **. Court Thepot Options D Reput	X.Dea	

17. Click on OK and the following screen will popup and a CSV file will be created.

Status	×	
Processing records	98	
Abort		

18. A CSV file will be saved in the location you have specified.

Appendix 9: PI - 9 workflow

Collector workflow

- 1. Select on Demographic tab
- 2. Ensure Facility Arrival date and time are entered
- 3. Select Transfer from another acute care facility from drop down menu in System Access

and Interneting	itan]			
Record Created By Facility	D Stat		Trauma Number 🗍	Record Complete
fedical Record Num			Account No	nter 🗌
acility Arrival 09/12	2/2016 🔟 09:00		System Access Transfer fro	om another acute care facility
atient Information				
Name: Last	1	Fest	M	
Max: Last	<u>6</u>	Fet	M	
Homeless	r			
Addess: Sheet 1				
Solet 2				
State	NSW New South Water		Contra Australia	
	In survivan soon want		cover house	
elephone Number	Mobile Number			
Station and Station			Gender	1

- 4. Select Referral Facility tab
- 5. Select Facility Information tab
- 6. Enter Referral Facility details
 - a. Referring facility
 - b. Mode of Arrival
 - c. Transfer Rationale
 - d. Arrival Date and Time
 - e. Departure Date and Time

cility Information Procedures/Treatments/Meds Interfacility Transport Interfacility Transport Treatments telerring Facility: tode of Princed Arrival Destination Notified Departure O1/12/2016 10:00 1	mographic	Data Edito	n Ref Facility 1	Ref Facility 2	Pt Tracking ED	Procedures	Diagnoses) 0	utcome QA	Memo ITIM
tetering Facility: Is208 Wollongong Hospital Arrival 01/12/2016 Destination Notified 10:00 ransfer Rationale 01/12/2016 Major Trauma Total Time at Referring Facility Intubated Respiration Assisted Sa02 Pulse Rate Add	cility Information	Proced	.res/Treatments/M	eds Inter-facility	Transport Inter-fa	scility Transport Tr	eatments		
tode of Xmfval Ambulance Departure 01/12/2016 11:00 ransfer Rationale Major Trauma Total Time at Referring Facility 100 Intubated Respiration Assisted Sa02 Pulse Rate Add Date Time Paralytic Agents Sedated Intubated Respiration Assisted Sa02 Pulse Rate Deleter Deleter	leferring Facili 16208 - Wi	by: oliongong Ho	spital	<u>.</u>		Anival Destination Notif	01/12/201 ed	6 🔽 10:0	
teferring Facility Vitals Date Time Paralytic Agents Sedated Intubated Respiration Assisted Sa02 Pulse Rate Edit Deter Det	lode of Arrival ransfer Ration	Ambulanci ale Major Tr	auma			Departure Total Time at Re	[01/12/201 ferring Facility	6 ET 11:0	
Delete	leferring Facili Date	ly Vitals Time F	Paralytic Agents	Sedated	Intubated	Respiration Assi	ted SaO2	Pulse Rate	Add
					11-12-22-22-22-22-22-22-22-22-22-22-22-2				
									<u> </u>
			1.00	cara l sa					•

- 7. Select Inter- facility Transport Tab
- 8. Enter Inter- facility Transport details must include:
 - a. Agency
 - b. Mode
 - c. Arrived at Patient date and time
 - d. Left Location date and time

🖀 Trauma Data Editor				- D X
Demographic Insert (Pathons: Fet Facily 1 Ref Facily 2)	Pallacking ID	Procedures Diagnos	es) (Dutome) (GA)	(Merce) (TRM)
Facily Mumaton) Procedures/Testments/Made Inter facility 1	Insuport Insufacily	Transport Treatments		
- Davids	104			
Agency AMRS ·	Call Received	11/12/2016	10:00	
UNA	Call Dispatched	11/12/2016	10.04	
Mode Helicopte	En Route	11/12/2016	10.10	
I Diter	Anived at Location	11/12/2016	10.30	
Development of C	Arrived at Patient	11/12/2016	10.31	
Rue Namber	Arrived at Destinatio	n 11/12/2016 [2]	11:15	
Dispatch Number			Phil Brook	
La contra de la co				
Interfacility Provider Vitals				
Date Time Paralytic Agents Sedated	Initiated Pa	speaker.Azaited 5	a02 Pulse Rate	
				10
				- Delete
<u> </u>				•
		-		Con l Cone
Transition Annual Annual Parts 110/2014				Citra Citra

9. Click Save

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report

- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

🖬 Run Rep	ort				_ 0 >
🥩 D	I Report	Writer			
Report	C Standard	C User			Edt Clear
Query	For	Select Repo	e Recort		Edit Clear
Gather	Grouped By:	<u>Statistics</u> <u>BDL Report</u>	Report //		Edit Clear
Output G Screen C Printer C File	PirrSetup	Page Setup	T Dutput Printer Co	des Ad	vanced Outputs
Retection			a		1

- 6. After you click Data Table Report (in step 5) the following screen appears
- 7. Fill in the Name and Description fields as shown in the screenshot
- 8. A popup screen opens up which allows you to add Fields in your report
- 9. Select the Name field and enter process indicator name DT_MRT_TURNAROUND
- 10. Select the description field and enter MRT turnaround time
- 11. Select add
- 12. Enter the first the Field Name, description and format per table below
- 13. Select the green "+" button

14. Repeat steps 12 and 13 adding the fields and their labels from the following table:

Fields	Description	Format
INST_NUM	Facility number	
INST_NUM_AS_TEXT	Facility Name	
EDA_DT	Facility Arrival Date	D0E1Z0
ED_TM	Facility Arrival Time	
AGE_RPT	Age	
E_CODE_1_AS_TEXT	mechanism	
ISS_RPT	ISS	
DIS_STS_RPT_AS_TEXT	Outcome	
RF_HOSP_AS_TEXT	Referring Facility1	
IT_PR_ID_AS_TEXT	Agency1	
IT_MODE_AS_TEXT	Mode1	
IT_PT_DT	Retrieval Team1 at pt date	D0E1Z0
IT_PT_TM	Retrieval Team1 at pt time	
IT_L_DT	Retrieval Team 1 left location date	D0E1Z0
IT_L_TM	Retrieval Team 1 left location time	
MINUS(EDA_EVENT,IT_PT_EVENT)	Time elapsed in mins RF Hos 1 to TS	
MINUS(IT_L_EVENT,IT_PT_EVENT)	Time elapsed MRT at PT to left loc	

15. Once compete select ok

DT_MRT_TURNAROUND - D Name: DT_MRT_TURNAROUND Description: MRT turnaround time	ata Table Editor		_	
Data Elements Sort Order General				
Field	Label	Width 🛆	Format 🔺	🔓 bbA 📲
INST_NUM_AS_TEXT	Facility Name			
INST_NUM	Facility			<u>E</u> dit
TRAUMA_NUM	Trauma ID			💻 <u>D</u> elete
AGE_RPT	Age (yrs)			
ISS_RPT	ISS			Move Up
E_CODE_1_AS_TEXT	Mechanism of Injury (Primary)			Move <u>D</u> own
DIS_STS_RPT_AS_TEXT	Outcome			Duick Add
EDA_TM	Facility arrivial time			
RF_HOSP_AS_TEXT	Referring facility as text			
IT_PR_ID_AS_TEXT	Agency 1			
IT_MODE_AS_TEXT	Mode 1			
IT_L_TM	Retrieval Team 1 left location time			
IT_L_DT	Retrieval Team 1 left location date		D0E1Z0	
MINUS(EDA_EVENT,IT_PT_EVENT)	Time elapsed in mins RF Hos 1 to TS			1
MINUS(IT L EVENT IT PT EVENT)	Time elansed MBT at PT to Left Loc			
	ci			

- 16. Click on General tab
- 17. Click CSV option and also select Include Column Headings tick box
- 18. Click Save
- 19. Click on Use which will close this screen

DT_MRT_TURNAROUND - Data Table Editor	
Name: DT_MRT_TURNAROUND Description: MRT turnaround time	
Data Elements Sort Order General	
Title:	
SubQuery	
Output Type O Tabular	
CSV Include Column Headings Launch Excel	
Default Filename:	-
Across:	
Use Save Save As X Close	

- 20. Click on the File radio button in Output section
- 21. Click on the File Folder button will open the "Select File" screen
- 22. Provide the file name (also put a .CSV) at the end of file name
- 23. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

Query 1: Q_MRT_AGENCY

1. Select Query edit button on the main screen on Report Writer

📰 Run Rep	ort				_ D X
🤞 D	I Report	Writer			
Report	C Standard	G User ND		_	Edt Clear
Query ¥	For				Edit Clear
Gather	Grouped By:			_	Edt Clear
Oulpul C Screen C Phinter C File	Pint Setup	Page Selup	T Output Printer Co	desA	dvanced Outputs
Refresh Srie	ahot				
D Bun	*. Court	Report Options	2 Reget		

2. Clicking the Query edit button opens the following screen

🗒 Query Eo	ditor				_	
Name:						
Description:						
Query Fields	General					
	Select records that match	Each C One or	more of the f	following criteria.		
	Column 1	Operator	△ Column	n2		🚽 Add
						🥖 <u>E</u> dit
						💻 <u>D</u> elete
						Move <u>U</u> p
						Move <u>D</u> own
						<u>Q</u> uick
					•	
<u>U</u> se	Save Save As					
3. Select	t the Name field and	d enter process ir	dicator n	ame Q_MRT_	AGENCY	

4. Select the description field and enter the desription MRT Agency

- 5. Click the Add button on the right hand side of the screen
- 6. Clicking on add button opens the following screen

📰 User Query Editor			_ 🗆 X
Record Edit Browse			
Column 1]	Operator:	Column 2	
✓ <u>O</u> K X Cancel			_ <u>+</u> = (())

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 6 and 7 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
IT_PR_ID	=	1
IT_PR_ID	=	2
IT_PR_ID	=	3
IT_PR_ID	=	4
IT_PR_ID	=	5

- 10. Once compete select ok
- 11. Click on One or more radio button

Q_MRT_AGENCY - Query Education	ditor		
Name: Q_MRT_AGENCY Description: MRT Agency Query Fields General			
Select records that match	CEach One or more	of the following criteria.	_
Column 1 V	Upe	Column 2	<u>₽</u> ₽99
	=	2	– 🧷 <u>E</u> di
IT_PR_ID	- 🔪	3	<u> </u>
IT_PR_ID	-	4	Move Up
IT_PR_ID	=	5	
			<u>Move Down</u>
			<u>Q</u> uick
Ilse 🔲 Save Save As 🗙	Close		

- 12. Click Save
- 13. Click on use to close the window

Query 2: Q_MRT_ ASNSW_MODE

1. Select Query edit button on the main screen on Report Writer

🔳 Run Repo	ort				_ 0 ×
🤳 D	I Report	Writer			
Report	C Standard	G User ND		_	Edt Clear
Query	For:				Edit Clear
Gather	Grouped By:			_	Edit Clear
Output C Screen C Plinter C File	Pint Setup	Page Setup	T Output Pinter Co	desA	Ivanced Outputs
Beltesh Spac	shot				
D Bun	*, Court	Report Options	O Reget		

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			_ 🗆 🗙
Name: Description: Query Fields General			
Select records that match	Each One or more	of the following criteria.	
Column 1	Operator A	Column 2	
			🧪 <u>E</u> dit
			💻 <u>D</u> elete
			Move <u>U</u> p
			Move <u>D</u> own
			<u>Q</u> uick
			-
Use 🔄 Save Save As	< <u>C</u> lose		

- 3. Select the Name field and enter process indicator name Q_MRT_ ASNSW_MODE
- 4. Select the description field and enter the desription MRT Heicopter/Fixedwing
- 5. Click the Add button on the right hand side of the screen



6. Clicking on add button opens the following screen

🧱 User Query Editor			_ 🗆 🗙
Record Edit Browse			
Column.1	Operator:	Column 2]
OK X Cancel			

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 6 and 7 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
IT_MODE	=	1
IT_MODE	=	2

- 10. Once compete select ok
- 11. Click on One or more radio button
- 12. Click Save
- 13. Click on close
- 14. Clicking on use, closes the window

Query 3: Q_MRT_AGENCY_PLUS_MD

1. Select Query edit button on the main screen on Report Writer

📰 Run Report	×
🛁 DI Report Writer	
Report C Standard C User	EditChear
Query	EditClear
Gather Grouped By:	Edt Clear
Output C Screen C Printer Print Service Page Setup C Output Printer Codes C File U-VTIM Work/Vest.csv	Advanced Outputs
Refresh Snapshot	
Bun Count Beport Options OF Reget	X Close

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			<u> </u>
Name: Description: Query Fields General			
Select records that match	● Each C One or more	of the following criteria.	
Column 1	Operator 🗠	Column 2	🚽 👍 🚽
			🧪 <u>E</u> dit
			💻 <u>D</u> elete
			Move <u>U</u> p
			Move <u>D</u> own
			<u>Q</u> uick
•			×
Use 🔚 Save Save As	K. <u>C</u> lose		

- 3. Select the Name field and enter process indicator name Q_MRT_AGENCY_PLUS_MD
- 4. Select the description field and enter the desription MRT AGENCY + MODE

5. Click the Add button on the right hand side of the screen

👍 Add

6. Clicking on add button opens the following screen

🧱 User Query Editor	_ D X
Record Edit Browse	
Column 1 Column 2 Column 2	

7. Enter the first query field into Column 1, Operator and Column 2 as per table below:

Column 1	Operator	Column 2
Q_MRT_AGENCY	AND	Q_MRT_ASNSW_MODE

- 8. Once compete select ok
- 9. Click on One or more radio button

	Q_MRT_AGENCY_PLUS_MD - Query Editor	
	Name: Q_MRT_AGENCY_PLUS_MD Description: MRT Agency + Mode Query Fields General	
l	Select records that match C Each 🔍 One or more of the following criteria.	
	Column 1 🗸 Operator Column 2	🚽 Addo
l	Q_MRT_AGENCY AND Q_MRT_ASNSW_MODE	Ed D
		<u> </u>
		Move <u>U</u> p
l		Move <u>D</u> own
l		Quick
l		
l		
l		
l		1
		1
ľ	Use Save Save As X Close	

- 10. Click Save
- 11. Click use to close

Query 4: Q_MRT_TIME_GT_60

1.	Select Query	edit button	on the mair	n screen on	Report Writer
----	--------------	-------------	-------------	-------------	---------------

📰 Run Rep	ort				
🤞 D	I Report	Writer			
Report	C Standard	(F User ND		_	Edit Clear
Query	For				Edit Clear
Gather	Grouped By:			_	Edt Onar
Output C Screen C Phinter C File	Pint Setup	Page Setup	C Output Printer Co	desA	dvanced Outputs
Beliesh Snat	sahiot				
D Bun	*, Court	Report Options	2 Repet		

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			_ 🗆 🗙
Name: Description: Query Fields General			
Select records that match	Each C One or more	of the following criteria.	
Column 1	Operator A	Column 2	bb <u>A</u> 🚽
			🥖 <u>E</u> dit
			<u> </u>
			Move <u>U</u> p
			Move <u>D</u> own
			Quick
	(.
			Ŀ
Use Save Save As	< <u>C</u> lose		

- 3. Select the Name field and enter process indicator name Q_MRT_TIME_GT_60
- 4. Select the description field and enter the description MRT Turnaround time GT 60
- 5. Click the Add button on the right hand side of the screen



6. Clicking on add button opens the following screen

📰 User Query Editor			_ □ ×
Record Edit Browse			
[Column.1]	Operator:	Column 2	
✓ <u>O</u> K X <u>C</u> ancel			

7. Enter the first query field into Column 1, Operator and Column 2 as per table below:

Column 1	Operator	Column 2
MINUS(EDA_EVENT,IT_PT_EVENT)	<	60

- 8. Once compete select ok
- 9. Click on One or more radio button
- 10. Click Save
- 11. Clicking on used closes the window

Q_MRT_TIME_GT_60 - Query Editor	<u> </u>
Name: Q_MRT_TIME_GT_60 Description: MRT Turnaround time GT 60 Query Fields General	
Select records that match 🦳 Each 💿 Dine or more of the following criteria.	
Column 1 V Operator Column 2	🛃 🚽
	<u> </u>
Use Save Save As X Close	

Query 5: Q_MRT_TIME_LTE_60

1. Select Query edit button on the main screen on Report Writer

📰 Run Rep	ort				- N
🤞 D	I Report	Writer			
Report	C Standard [DT_MRT_TURNAROUN	G User ID		_	Edit
Query	For:				Edit Clear
Gather	Grouped By:				EditClear
Output C Screen C Printer C File	Pint Setup	Page Setup	Coutput Printer Cod	nsAdv	anced Outputs
Refresh Snap	ishing _				
D Bun	* Count	E Report Options	2 Reget	X Close	

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			. 🗆 🗙
Name: Description: Query Fields General			
Select records that match	€ Each C One or more	of the following criteria.	_
Column 1	Operator 🗠	Column 2	🚽 Add
			🥖 <u>E</u> dit
			💻 <u>D</u> elete
			Move <u>U</u> p
			Move <u>D</u> own
			<u>Q</u> uick
		<u> </u>	J
Use 🔄 Save Save As	K <u>C</u> lose		

- 3. Select the Name field and enter process indicator name **Q_MRT_TIME_LTE_60**
- 4. Select the description field and enter the desription MRT Turnaround time LTE 60

5. Click the Add button on the right hand side of the screen

🚽 Add

6. Clicking on add button opens the following screen

🧱 User Query Editor			_ 🗆 🗙
Record Edit Browse			
	Operator:	Column 2]
✓ <u>D</u> K X Cancel			

7. Enter the first query field into Column 1, Operator and Column 2 as per table below:

Column 1	Operator	Column 2
MINUS(EDA_EVENT,IT_PT_EVENT)	<=	60

8. Once compete select ok

Q_MRT_TIME_LTE_60 - Query Editor
Name: Q_MRT_TIME_LTE_60 Description: MRT Turnaround time LT 60 Query Fields General Select records that match •
Column 1 V Operator Column 2
MINUS(EDA_EVENT),T_PT_EVENT)
Use Save Save As X Close

- 9. Click on One or more radio button
- 10. Click Save
- 11. Click on use closes the window

Running the Query

- 1. Select Query button on the main screen on Report Writer
- 2. Scroll down or search for Q_MRT_AGENCY_PLUS_MD and Q_MRT_TIME_GT_60 or Q_MRT_TIME_LTE_60
- 3. Select query and click use
- 4. Clicking use closes the window
- 5. Once the report and the query has been filled in, click on Run to run the report

📰 Run Report	
🍰 DI Report Writer	
C Standard © User DT_MRT_TURNAROUND	Edit Clear
Query For: Q_MRT_AGENCY_PLUS_MD	Edit Clear
Gather	Edit Clear
Output C Screen Printer Print Setup Page Setup Output Printer Codes File U:\\TIM Work\test.csv	Idvanced Outputs
Refresh Snapshot ▶ Bun *a, Count Image: Report Options Image: Reget X. Options	

6. The following screen will popup where you can set the filters for your report as shown below.

E Rin Report	_ [0] X	
🗳 DI Report Writer		
a Run Report	_ <u> </u>	
Trauma Number: Arrival Date: Discharge Date: T / Loo Record Status: Active Closed Facility: Clear Query Clear Clear Query Clear Query Clear		Give a Date Range as appropriate Provide your facility Number
D Bun *+, Court D Report Springe D Reput	X.Dox	

7. Click on OK and the following screen will popup and a CSV file will be created.



8. A CSV file will be saved in the location you have specified.

Appendix 10: PI - 10 workflow

Collector workflow

- 1. Select on Demographic tab
- 2. Ensure Facility Arrival date and time are entered
- 3. Select Transfer from another acute care facility from drop down menu in System Access

🛢 - Manina Sata Spline	. (C) X
Transporter (Martin Person) Marttania 11, Marttania (1) (Mittania)	22 Paratiani Dageneri Datara (21 March (1981)
Patient	
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Facility Arrival 02/01/2014 🗾 23:56	System Access Transfer from another acute care facility 💌
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Aller Lat Ref	
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wight Dine termity when	×p+ Rs+
Tanan Statter Billetitte Annallian 27:2074	14.14

- 4. Select Referral Facility tab
- 5. Select Facility Information tab
- 6. Enter Referral Facility details
 - a. Referring facility
 - b. Mode of Arrival
 - c. Transfer Rationale
 - d. Arrival Date and Time
 - e. Departure Date and Time

💼 Sourro Cuta Editor	_ D X
International International Ref Facility 1	ED Pornien(Dagese) Datare(GA Merci (DM)
Facility Information	te failly Transport Tradewick
Referring Facility:	
1202 Canterbury Hospital	Arrival 02/01/2014 2 22:27
Mode of Arrival Private Vehicle	Destination Notified 02/01/2014 [2] [23:00 Departure 02/01/2014 [2] [23:30
Transfer Rationale Major Trauma	haid face a fideorg/facility (111
TelengTelly the	
Date Teachington Teacher	Tergenderriteinent tall: Telentale
	10
1.=A	
when I Day I second other I	New J Devillow
Trauma Number 200100008 AnnuelDate 305/2016	Contraction (N)=

- 7. Select Inter-facility Transport Tab
- 8. Enter Inter-facility Transport details must include:
 - a. Agency
 - b. Mode
 - c. Call received date and time (time of first notification to retrieval service)

🗰 Tanana Data Litta					
Company (Parts) Parts	nu fatfally 1 (fatfally 2)	Philipping (Com)	manifianti Chagman	a) Danme) DA	Manual (COM.)
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Provider		Call			
Agency AMRS		Call Received	11/12/2016 🗾	10:00	
i onit		Call Dispatched	Z	<u> </u>	
Mode Helicopter	•	En Route	2		
If Other		Arrived at Location	2		
Level of Care	1	Arrived at Patient	11/12/2016 🔽	11:05	
Thepart Resultable		Left Location	11/12/2016 🗾	11:35	
The Number		Arrived at Destination	11/12/2016 🗾	12:15	
Superin number					
And the Party of the local division of					
Case Case F	water Accests Californi	Internet Trees	antion Resident 1 St.	CO Puter Bate	C Association
	and a state of the				
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*1			1		1
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Trauma Number 20120013	AmudiDuse 1/3/2011				[A]

9. Click Save

Report Writer workflow

Data table report

- 1. Open Report Writer.
- 2. Click on Report
- 3. Select User radio button and Click on Edit
- 4. A popup screen opens up(as shown in the screenshot)
- 5. Click on Data Table Report button in this popup screen

📰 Run Repo	ət.				_ 0 >
🍰 D	I Report	Writer			
Report	C Standard	C User		(Edit Clear
Query	For	Select Repo	Report n		Edit Clear
Gather	Grouped By:	BDL Report	Report //	_	Edit Clear
Output © Screen © Printer © File	PirrSetup	Page Setup	T Output Printer Co	des 👘	Advanced Outputs
Retrosh Score	#107	Bernet Ontines	O Barret	× Close	

- 6. A popup screen opens up which allows you to add Fields in your report
- 7. Select the Name field and enter process indicator name DT_ CI_NOT_GT_30MIN
- 8. Select the description field and enter NOTIFICATION > 30MINS
- 9. Select add
- 10. Enter the first the Field Name, description and format per table below
- 11. Select the green "+" button

12. Repeat steps 9 and 10 adding the fields and their labels from the following table:

Fields	Description	Format
INST_NUM	Facility number	
ENTRY_SYS_AS_TEXT	system access	
RF_HOSP_AS_TEXT	Referring Facility1	
RF_A_DT	Ref arrival date	D0E1Z0
RF_A_TM	Ref arrival time	
MINUS(IT_C_EVENT,RF_A_EVENT)	Notification time	
IT_C_DT	Call notification date	D0E1Z0
IT_C_TM	Call notification time	
IT_C_EVENT	Notification event date	D0E1Z0

13. Once compete select ok

🖽 DT_CI_NOT_GT_30MIN - Data Table Editor 💦 📃 💷 🔜					
Name: DT_CI_NOT_GT_30MIN Description: Notification > 30 min Data Elements Sort Order					
Field	Label	Width	🚽 Add 🕌		
INST_NUM	facility number				
ENTRY_SYS_AS_TEXT	entry				
RF_HOSP_AS_TEXT	ref. hosp1		💻 <u>D</u> elete		
RF_A_DT	Referring hosp. admission date	D	Maya Up		
BF_A_TM	referring hosp time		0		
MINUS(IT_C_EVENT,RF_A_EVENT)	notification time		Move <u>D</u> own		
IT_C_DT	IT_C_DT call notification date				
IT_C_TM	call notification time				
IT_C_EVENT	notification event date	D	c		
Use Save Save As X Close					

- 14. Click on General tab
- 15. Click CSV option and also select Include Column Headings tickbox
- 16. Click Save
- 17. Click on Use which will close this screen
- 18. Click on the File radio button in Output section
- 19. Click on the File Folder button will open the "Select File" screen
- 20. Provide the file name (also put a .CSV) at the end of file name
- 21. Click on Open and the "Select File" screen will close and the name of the file will appear in the "Run Report" screen

Query

1. Select Query edit button on the main screen on Report Writer

🖀 Aun Report	
DI Report Writer	
Report Film	
Query For	Edit Clear
Gather	
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Tuffedt Sourchar	
D Bun **. Court 2 Report Options O Report >	(Dime

2. Clicking the Query edit button opens the following screen

🧱 Query Editor			_		X
Name: Description: Query Fields General					
Select records that match	Each C One or more	of the following criteria.			
Column 1	Operator A	Column 2		- 4	<u>A</u> dd
			- 1	1	<u>E</u> dit
			- 1		elete
			- 1	Mov	e <u>U</u> p
			- 1	Move	<u>D</u> own
			- 1	Qu	ick
Use 🛛 🖬 Save Save As 🗙	(<u>C</u> lose				

- 3. Select the Name field and enter process indicator name Q_ CI_NOT_GT_30MIN
- 4. Select the description field and enter the desription NOTIFICATION > 30MINS

5. Click the Add button on the right hand side of the screen

👍 Add

6. Clicking on add button opens the following screen

📰 User Query Editor	_ 🗆 X
Record Edit Browse	
Column 1 Column 2	

- 7. Enter the first query field into Column 1, Operator and Column 2 as per table below
- 8. Select the green "+" button
- 9. Repeat steps 7 and 8 adding the fields and their labels from the following table:

Column 1	Operator	Column 2
ENTRY_SYS	=	3
MINUS(IT_C_EVENT,RF_A_EVENT)	>	30

10. Once compete select ok

D Q_CLNC	DT_GT_30MIN - Query Edi	tor			
Name:	Q_CI_NOT_GT_30MIN				
Description:	notification > 30min				
Query Fields	General				
	Select records that match	Each	C One or more	of the following criteria.	
	Column 1	1 10	🥖 Operator	Column 2	bbA 💠
ENTRY_SY	S EVENT DE A EVENT)		10.5	3	/ Edit
MildOs(II_C	_EVENT.HF_A_EVENT)	,		30	- Delete
					Movello
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•					<u> </u>
<u>U</u> se	Save Save As				

- 11. Click on General tab and Select the Ref Facility 1/Facility Information from the drop down box menu
- 12. Click Save
- 13. Click on Use which will close this screen
- 14. Once the report and the query has been filled in, click on Run to run the report
- 15. A screen will popup where you can set the filters for your report.
- 16. Click on OK and the following screen will popup and a CSV file will be created.
- A CSV file will be saved in the location you have specified.

Appendix 11: PI - 11 workflow

Collector workflow

- 1. Select Pt Tracking tab
- 2. Choose Ventilator Tracking
- 3. Enter data



Report Writer workflow

- 1. Create a data table filename: example: DT_PI11_GCS_LESS_9
- 2. Select the Add button on the right hand side of the screen
- 3. Add the data elements as per screen
- 4. Then hit SAVE then USE

📰 DT_PI11_GCS_LESS_9 - Data Table Edit	or		_	
Name: DT_PI11_GCS_LESS_9 Description: Head Inj GCS < 9 in ED Data Elements Sort Order General				
Field 🗠	Label	Width	Format	🚽 Add 🚽
AIS SEV L	AIS Head Severity Score			
A_VT_A_EVENT	Ventilator Start DateTime		DOE1ZO	<u> </u>
EDA_DT	ED Arrival Date		D0E1Z0	💻 Delete
ENTRY_SYS_AS_TEXT	Entry			
GCS_A_L	GCS Total in ED			Move Up
INST_NUM	Facility Number			Move <u>D</u> own
MINUS(A_VT_A_EVENT,VT_A_EVENT_L)	Intubation Time			0.44
PREDOTSRPT_L_AS_TEXT	AIS Description	100		
VT_A_EVENT_L	Ventilator Start Event		D0E1Z0	
VT_DETAIL_L	Ventilator Detail	50		

On Query:

• Select the Query button, this screen props up

See screen shot below:

Nacciption Leavy Field	:)General			
24/07	Select records that watch IR Each	C Dire of non	a of the following criteria.	
	Column 1	Operator	Column 2	- A
			100 C 100 C	10
				- Del
				 Mauri
				 Hund
				MONE PO
				 : Donce

- Create a query table filename: example: DT_HEADGCS_LESS_9
- Select the Add button on the right hand side of the screen
- Add the data elements as per screen
- Then hit SAVE then USE

See screen shot below:

Name: Q_PI11_HEAD_GCS_LS_9 - Que	ny Editor	_	
Select records that match	ach C One or more	of the following criteria.	
Column 1 🗸	Operator	Column 2	_ ↓ bbA ∳
ANY(ED_INTERV)	=	10	E dit
ANY(GCS_A)	=	9	
	=	4	<u> </u>
MINIIS(A VT A EVENT EDA EVENT)	>	20	Move <u>U</u> p
			Move <u>D</u> own
•		•	
			-
Use 🛛 🔚 Savg 🖉 Save As 🛛 🗙 Clo	se		
رالس 🛩 رالس			

When Save & use is hit the screen below props up

Then hit RUN located on the bottom left hand side of the screen: See screen shot below



Once RUN is selected another screen props up. Choose date range

Then hit OK then RUN

See screen shot below:
📰 Run Report	_ 🗆 X
DI Report Writer	
📰 Run Report	_ <u> </u>
Trauma Number: Arrival Date: Discharge Date: Facility: Closed Facility: Closed	
Query Clear Query Clear Query Clear	
Refresh Stapshot	
Bun '*, Count S Report Options S Reset X	

See output below:

facililty entry ED arrival d mechar GCS to ais des ventilatorstart ever ventilation detail ventilatorstaintubation time 1208 Pre-hos 5/10/2016 Ped vs 3 cerebru 10/05/2016 18:17 intubated in ED 05/10/16 23

Retrieval Sheets from Various Agencies

RX	forme	VACIS	- Ambular CONS omplaint In	nce Electronic Medica OLIDATED CO vestigation (Closed case (Closed)	I Record PY es only))			Page 2 of 5
Case # Case Date Times Call Dispa Received 14:55 15:07	atched En Route 2 15:04	©ate ⊕ Scene 15:24	@ Patient 15:26	Patient Name Looded 15:57	e Destination 16:18	PI-1 - Pati Triage 16:23	Arrive ent Tir off Stretcher 17:00	Clear 17:28
Past History Pre-Exist Adds Wergles History Lature 2056 Description	Atrial Fibrilla other WARFA No Known All motor vehicle	tion; Coronar RIN; PLUS O ergies collision	y Artery Gr THERS	aft Surgery >> WAITING	5 X 3; Diabete	PI-1	- Left on Tim	e
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					Info Insw	Ambülance,	be de this fi	eld eaxs

Ambulance Electronic Medical Record (relevant to PI-1)

NSW Ambulance PHCR (relevant to PI-1)





Ambulance Services of NSW (relevant to PI- 1, PI-9 and PI-10)

CareFlight Patient Treatment Record (relevant to PI-9)

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Aeromedical Retrieval Record (relevant to PI9 and PI10)





South Care Retrieval Case Sheet (relevant to PI9-PI10)

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TRISS calculation

Sourced from: http://www.trauma.org/archive/scores/triss.html

The survival prognosis is computed based on the below logarithmic regression equation and formulas: Survival probability = $1/(1 + e^{-b})$

where $b = b0 + b1 \times RTS + b2 \times ISS + b3 \times AgeIndex$

Based on the table with the indices used:

	Blunt	Penetrating
b0	-0.4499	-2.5355
b1	0.8085	0.9934
b2	-0.0835	-0.0651
b3	-1.743	-1.136

The two resulting formulas for b are:

- b_{Blunt} = -0.4499 + 0.8085 x RTS 0.0835 x ISS 1.7430 x Age Index
- b_{Penetrating} = -2.5355 + 0.9934 x RTS 0.0651 x ISS 1.1360 x Age Index

TRISS takes account of patient age in an Age Index that is:

- 0 for patients below 55;
- 1 for patients 55 and above.

Collector system automatically calculates the TRISS value as shown below.

Demographic Injury Prehosp Ref Facility 1 Ref Facility 2 Pt Tracking ED	Procedures Diagnoses Outcome	QA Memo ITIM
Injury Narrative Coding Section ICD10 AM Comorbidities Complications		Ι
Coding.Module	ISS 57 NISS 66	TRISS 0.186

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