**Red­­cap Data Dictionary - The Impact of Pre-Hospital Whole Blood on Mortality in Severely Injured Trauma Patients**

**Key Instructions**

* Enter 9.9999 anywhere a value/data entry point is intentionally left blank
* Use either cc **OR** units when recording transfusion values depending on what is recorded at your institution

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| Count | Variable name | Variable definition | Units/Format |
| **Demographics** | Pt # | Assigned patient number | Numerical value |
|  | Institution name | Name of your institution | Select one |
|  | Age | Age of patient. | Years |
|  | Race | Race or ethnicity of patient. | **Select one**  Black or African American  White  American Indian or Alaska Native  Asian  Native Hawaiian or North Pacific Islander |
|  | Sex | Sex patient. | **Select one**  Male  Female  Other  Unidentified |
| **Injury Information** | Mechanism | Mechanism of injury | **Select one**  Ground level Fall  Fall from height  MVC  MCC  Pedestrian struck  GSW  SW  Other |
|  | ISS | Injury severity score  ISS: the sum of the square of the three most severely injured body regions | Discrete numeral between 0 and 75. |
|  | AIS Head/Neck | Maximum AIS head | Numeral between 0-6 |
|  | AIS Face | Maximum AIS Face | Numeral between 0-6 |
|  | AIS Thorax | Maximum AIS Thorax | Numeral between 0-6 |
|  | AIS Abdomen/Pelvic Content | Maximum AIS Abdomen | Numeral between 0-6 |
|  | AIS Extremity/Pelvic Girdle | Maximum AIS LE | Numeral between 0-6 |
|  | AIS External | Maximum AIS External | Numeral between 0-6 |
|  | Trauma Center Level | Verified Trauma Center level | 1 2 3 4 |
| **Pre-Hospital Phase** | Time to hospital | Total pre-hospital time spent prior to arrival from the scene to the hospital in minutes | Numerical value in minutes |
|  | Blood transfusion- whole blood | The total number of units whole blood transfused before arrival of the patient to the hospital | Number of units OR amount in cc |
|  | Blood transfusion- pRBCs | The total number of units of packed red blood cells (pRBC) transfused before arrival of the patient to the hospital | Number of units OR amount in cc |
|  | FFP transfusions in pre-hospital time | Total number of FFP transfusions in pre-hospital time | Number of units **OR** Amount in cc |
|  | IV Fluids infused pre-hospital | Total number of IV Fluids infused before arrival to the hospital | In cc |
|  | TXA pre-hospital | TXA given pre-hospital | Number in Grams |
|  | Prehospital Vitals: SBP | Patients systolic blood pressure documented while in transport OR any SBP document if only one. **If multiple SBP are documented, enter the lowest SBP** | mmHg |
|  | Prehospital Vitals: HR | Patient’s heart rate (HR) documented while in transport OR any HR documented. If multiple HR are documented, enter the highest | Beats per minute |
|  | Prehospital Vitals: GCS | Patient’s Glasgow Coma Scale | 3-15 |

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| --- | --- | --- | --- |
|  | Mode transport | Mode of transport | Ground  Flight  Private Vehicle  Police |
|  | Emergent Procedures | Emergent procedures performed prior to arrival to the hospital | Intubation  Needle decompression |
| **ED Phase** |  |  |  |
|  | ED Initial GCS | Patient’s first Glasgow Coma scale documented while in the ED | 3-15 |
|  | ED Initial Vital Signs: HR | Patient’s first heart rate (HR) documented while in the emergency department. | Beats per minute |
|  | ED Initial Vital Signs: SBP | Patient’s first systolic blood pressure documented while in the emergency department. | mmHg |
|  | ED Procedure 1/2/3 | Completion of a bedside procedure during the pre-operative/ED phase | Procedures performed  Intubation  Chest tube placement  ED Thoracotomy  Central venous access  Surgical airway |
|  | Access | Type of access | IV IO  Central venous |
|  | Whole blood transfusions in the ED | Total number of whole blood transfusions in the ED | Number of units **OR** Amount in cc |
|  | Packed red blood cell transfusions in the ED | Total number of packed red blood cell transfusions in the ED | Number of units **OR** Amount in cc |
|  | FFP transfusions in the ED | Total number of FFP transfusions in the ED | Number of units **OR** Amount in cc |
|  | Platelet transfusions in the ED | Total number of platelet transfusions in the ED | Number of units **OR** Amount in cc |
|  | Cryoprecipitate transfusions in the ED | Total number of cryoprecipitate transfusions in the ED | Number of units **OR** Amount in cc |
|  | TXA given in ED | Total grams of TXA given in the ED | Number in grams |
|  | Time to whole blood transfusion | Time from arrival to Whole blood transfusion | In minutes |
|  | Time to pRBC transfusion | Time from arrival to packed red blood cell transfusion | In minutes |
|  | Time to FFP transfusion | Time from arrival to fresh frozen plasma transfusion | In minutes |
|  | Time to platelet transfusion | Time from arrival to platelet transfusion | In minutes |
|  | MTP | Was MTP activated | Yes No |
|  | Time to MTP | Time from arrival to MTP activation | In minutes |
| **Hospital Phase** | LABS ON ADMISSION  Hemoglobin | Hemoglobin value on admission | Numerical Value |
|  | LABS ON ADMISSION  Platelet count | Platelet count value on admission | Numerical Value |
|  | LABS ON ADMISSION  Creatinine | Cr value on admission | Numerical Value |
|  | LABS ON ADMISSION  Lactate | Lactate on admission | Numerical Value |
|  | LABS ON ADMISSION  BASE DEFICIT | Base deficit on admission | Numerical Value |
|  | LABS ON ADMISSION  FIBRINOGEN | Fibrinogen level on admission | Numerical value |
|  | LABS ON ADMISSION PT | PT on admission | Numerical Value |
|  | LABS ON ADMISSION INR | INR on admission | Numerical Value |
|  | LABS ON ADMISSION PTT | PTT on admission | Numerical Value |
|  | LABS ON ADMISSION ABG- PH | pH identified on ABG on admission | Numerical Value |
|  | TEG or ROTEM performed | Completion of pre-operative/ED TEG or ROTEM | **Select one**  Yes  No |
|  | TEG R | R value of TEG | In mins |
|  | TEG K | K value of TEG | In mins |
|  | TEG Angle | Angle of TEG | In degrees |
|  | TEG MA | Maximum amplitude of TEG | In mm |
|  | TEG LY 30 | Clot lysis at 30 mins after maximum clot formation | Percentage |
|  | ROTEM CT | Clotting time in ROTEM | In mins |
|  | ROTEM MCF | Maximum clot firmness in ROTEM | In mm |
|  | ROTEM Alpha angle | ROTEM alpha angle | In degrees |
|  | ROTEM LI 30 | Lysis index 30 mins after clotting time | Percentage |
|  | Damage control operation | Indicate if the first operation was a damage control operation | **Select one**  Yes  No |
|  | Time to hemorrhage control from arrival | Time in mins to hemorrhage control | Numerical value in minutes |
|  | Type of procedure | Type of procedure performed for hemorrhage control | Laparotomy  Thoracotomy  Embolization  Other |
|  | MTP initiation in first 24 hours | Whether a massive transfusion protocol (MTP) was initiated or not in the first 24 hours | **Select one**  Yes  One |
|  | Transfusion Total Units: Whole blood in first 4 hours | The cumulative total number of units of whole blood transfused into the patient during the first 4 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Whole blood in first 12 hours | The cumulative total number of units of whole blood transfused into the patient during the first 12 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Whole blood in first 24 hours | The cumulative total number of units of whole blood transfused into the patient during the first 24 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: pRBCs in first 4 hours | The cumulative total number of units of pRBCs transfused into the patient during the first 4 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: pRBCs in first 12 hours | The cumulative total number of units of pRBCs transfused into the patient during the first 12 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: pRBCs in first 24 hours | The cumulative total number of units pRBCs transfused into the patient during the first 24 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: FFP in first 4 hours | The cumulative total number of units fresh frozen plasma (FFP) transfused into the patient during the first 4 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: FFP in first 12 hours | The cumulative total number of units fresh frozen plasma (FFP) transfused into the patient during the first 12 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: FFP in first 24 hours | The cumulative total number of units fresh frozen plasma (FFP) transfused into the patient during the first 24 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Platelets in first 4 hours | The cumulative total number of units platelets transfused into the patient during the first 4 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Platelets in first 12 hours | The cumulative total number of units platelets transfused into the patient during the first 12 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Platelets in first 24 hours | The cumulative total number of units platelets transfused into the patient during the first 24 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Cryo in first 4 hours | The cumulative total number of units cryoprecipitate (Cryo) transfused into the patient during the first 4 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Cryo in first 12 hours | The cumulative total number of units cryoprecipitate (Cryo) transfused into the patient during the first 12 hours | Number in units **OR** amount in cc |
|  | Transfusion Total Units: Cryo in first 24 hours | The cumulative total number of units cryoprecipitate (Cryo) transfused into the patient during the first 24 hours | Number in units **OR** amount in cc |
|  | Total transfusion: TXA in first 4 hours | Total Number of TXA transfused in the first 4 hours | Number in grams |
|  | Total transfusion: TXA in first 12 hours | Total Number of TXA transfused in the first 12 hours | Number in grams |
|  | Total transfusion: TXA in first 24 hours | Total Number of TXA transfused in the first 24 hours | Number in grams |
|  | OR Disposition | State of patient or Unit the patient admitted to after the operating room | **Select one**  Floor  Stepdown  ICU  Discharge  Expired |
|  | Postop Complications | Development of post-operative complication | **Select all that apply**  Superficial SSI  Deep SSI  Organ space SSI  VAP  VTE (DVT/PE)  Sepsis  Unplanned return to the OR  Unplanned upgrade to the ICU  ARDS  TACO TRALI  AKI  None  Other |
|  | Ventilator days | Amount of days spent requiring mechanical ventilation | Days |
|  | Hospital length of stay (days) | Amount of days spent in the hospital | Days |
|  | ICU length of stay (days) | Amount of days spent in the ICU | Days |
|  | Mortality | Whether or not the patient died during their hospitalization | **Select one**  Yes  No |
|  | ED Mortality | Whether or not the patient died in the ED | **Select one**  Yes  No |
|  | Discharge disposition | Where the patient was sent after leaving the hospital | **Select one**  Home  Rehab  Skilled nursing facility  LTAC  Transfer  Expired  Other |