**Hemovigilance Module**

**Adverse Reaction**

**Transfusion Associated Circulatory Overload**

**\*Required for saving**

|  |  |  |
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| \*Facility ID#: \_\_\_\_\_\_\_\_\_ | NHSN Adverse Reaction #: \_\_\_\_\_\_\_\_\_\_ |  |
| **Patient Information** |
| **\*Patient ID:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | **\*Gender:** [ ] M [ ] F [ ] Other | **\*Date of Birth: \_\_\_\_/\_\_\_\_/\_\_\_\_\_** |
| Sex at Birth: [ ] M [ ] F [ ] Unknown  |  | Gender Identity (Specify):MaleFemaleMale-to-female transgenderFemale-to-male transgenderIdentifies as non-conformingOtherAsked but unknown\_\_\_\_\_\_\_\_ |
| Social Security #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Secondary ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Medicare #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Last Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | First Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Middle Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Ethnicity (Specify):Hispanic or LatinoNot Hispanic or LatinoUnknownDeclined to respond | Race (Specify):(Select all that apply):American Indian or Alaska NativeAsianBlack or African AmericanMiddle Eastern or North AfricanNative Hawaiian or Pacific IslanderWhiteUnknown Declined to respond |
| Preferred Language (Specify):\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Interpreter Needed: [ ] Yes [ ] No Declined to Respond Unknown  |
| **\*Blood Group:** | [ ]  A- | [ ]  A+ | [ ]  B- | [ ] B+ | [ ]  AB- | [ ]  AB+ | [ ]  O- | [ ]  O+ | [ ]  Blood type not done |
|  | [ ]  Transitional ABO / Rh + | [ ]  Transitional ABO / Rh - |  | [ ]  Transitional ABO / Transitional Rh |
| [ ]  Group A/Transitional Rh | [ ]  Group B/Transitional Rh | [ ]  Group O/Transitional Rh | [ ]  Group AB/Transitional Rh |
| **Patient Medical History**  |
|  | List the patient’s admitting diagnosis. *(Use ICD-10 Diagnostic codes/descriptions)* |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | List the patient’s underlying indication for transfusion. *(Use ICD-10 Diagnostic codes/descriptions)* |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | List the patient’s comorbid conditions at the time of the transfusion related to the adverse reaction. *(Use ICD-10 Diagnostic codes/descriptions)*   | [ ]  UNKNOWN |
| [ ]  NONE |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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|  |  |  |
| --- | --- | --- |
|   | List the patient’s relevant medical procedure including past procedures and procedures to be performed during the current hospital or outpatient stay. *(Use ICD-10 Procedure codes/descriptions)*   | [ ]  UNKNOWN |
| [ ]  NONE |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Additional Information \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Transfusion History**  |
|  | Has the patient received a previous transfusion? | [ ]  YES | [ ]  NO | [ ]  UNKNOWN |
|  | Blood Product: | [ ]  WB | [ ]  RBC | [ ]  Platelet | [ ]  Plasma | [ ]  Cryoprecipitate | [ ]  Granulocyte |
|  | Date of Transfusion: | \_\_\_\_/\_\_\_\_/\_\_\_\_\_ | [ ]  UNKNOWN |
|  | Was the patient’s adverse reaction transfusion-related?  | [ ]  YES | [ ]  NO |
|  | If yes, provide information about the transfusion adverse reaction. |
|  | Type of transfusion adverse reaction: | [ ]  Allergic | [ ]  AHTR | [ ]  DHTR | [ ]  DSTR | [ ]  FNHTR |
|  | [ ]  HTR | [ ]  TTI | [ ]  PTP | [ ]  TACO | [ ]  TAD | [ ]  TA-GVHD | [ ]  TRALI | [ ]  UNKNOWN |
|  | [ ]  OTHER | Specify \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Reaction Details** |
| **\*Date reaction occurred:**\_\_\_/\_\_\_\_/\_\_\_\_ | **\*Time reaction occurred:** \_\_ \_\_:\_\_ \_\_ | [ ]  Time unknown |
| **\*Facility location where patient was transfused:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Is this reaction associated with an incident? | [ ]  Yes | [ ]  No | If Yes, Incident #: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Investigation Results** |
| \*[ ]  **Transfusion associated circulatory overload (TACO)** |
|  |
|  | **\*Case Definition** |
|  | **Check all that** occurred **within 12 hours** of cessation of transfusion (new onset or exacerbation): |
|  | [ ]  Acute respiratory distress (dyspnea, orthopnea, cough) |
|  | [ ]  Elevated brain natriuretic peptide (BNP) |
|  | [ ]  Elevated central venous pressure (CVP) |
|  | [ ]  Evidence of left heart failure |
|  | [ ]  Evidence of positive fluid balance |
|  | [ ]  Radiographic evidence of pulmonary edema |
|  | Other signs and symptoms: (check all that apply) |
|  | Generalized: | [ ]  Chills/rigors | [ ]  Fever | [ ]  Nausea/vomiting |
|  | Cardiovascular: | [ ]  Blood pressure decrease | [ ]  Shock |
|  | Cutaneous: | [ ]  Edema | [ ]  Flushing | [ ]  Jaundice |
|  | [ ]  Other rash | [ ]  Pruritus (itching) | [ ]  Urticaria (hives) |
|  | Hemolysis/Hemorrhage: | [ ]  Disseminated intravascular coagulation | [ ]  Hemoglobinemia |
|  | [ ]  Positive antibody screen |
|  | Pain: | [ ]  Abdominal pain | [ ]  Back pain | [ ]  Flank pain | [ ]  Infusion site pain |
|  | Renal: | [ ]  Hematuria | [ ]  Hemoglobinuria | [ ]  Oliguria |
|  | Respiratory: | [ ]  Bilateral infiltrates on chest x-ray | [ ]  Bronchospasm | [ ]  Cough |
|  | [ ]  Hypoxemia | [ ]  Shortness of breath |
|  | [ ]  Other: (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | **\*Severity** |
|  | Did the patient receive or experience any of the following?  |
|  | [ ]  No treatment required | [ ]  Symptomatic treatment only |
|  | [ ]  Hospitalization, inlcuding prolonged hospitalization | [ ]  Life-threatening reaction |
|  | [ ]  Disability and/or incapacitation | [ ]  Congenital anomaly or birth defect(s) of the fetus |
|  | [ ]  Other medically important conditions | [ ]  Death | [ ]  Unknown or not stated |
|  |
|  | **\*Imputability** |
|  | Which best describes the relationship between the transfusion and the reaction? |
|  | [ ]  No other explanations for circulatory overload are possible. |
|  | [ ]  Transfusion is a likely contributor to circulatory overload |
|  | [ ]  The patient has a history of a pre-existing condition(s) that most likely explains circulatory overload. |
|  | [ ]  Evidence is clearly in favor of a cause other than the transfusion, but transfusion cannot be excluded. |
|  | [ ]  There is conclusive evidence beyond reasonable doubt of a cause other than the transfusion. |
|  | [ ]  The relationship between the adverse reaction and the transfusion is unknown or not stated. |
|  |
|  | Did the transfusion occur at your facility? | [ ]  YES | [ ]  NO |
|  |  |  |  |
|  | Does the patient have a history of cardiac insufficiency? |
|  | [ ]  Yes, the patient has a history of cardiac insufficiency that could explain the circulatory overload, but transfusion is just as likely to have caused the circulatory overload. |
|  | [ ]  Yes, the patient has a history of pre-existing cardiac insufficiency that most likely explains circulatory overload. |
|  | [ ]  No, the patient does not have a history of cardiac insufficiency. |
|  | Did the patient received other fluids in addition to the transfusion? | [ ]  YES | [ ]  NO |
|  |
| **Module-generated Designations** |
| *NOTE: Designations for case definition, severity, and imputability will be automatically assigned in the NHSN application based on responses in the corresponding investigation results section above.* |
|  |
|  | **\*Do you agree with the *case definition* designation?** | [ ]  YES | [ ]  NO |
|  | **^**Please indicate your designation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |
|  | **\*Do you agree with the *severity* designation?** | [ ]  YES | [ ]  NO |
|  | **^**Please indicate your designation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |
|  | **\*Do you agree with the *imputability* designation?** | [ ]  YES | [ ]  NO |
|  | **^**Please indicate your designation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |
| **Patient Treatment** |
|  | Did the patient receive treatment for the transfusion reaction? | [ ]  YES | [ ]  NO | [ ]  UNKNOWN |
|  | If yes, select treatment(s):  |
|  | [ ]  Medication *(Select the type of medication)* |
|  | [ ]  Antipyretics | [ ]  Antihistamines | [ ]  Inotropes/Vasopressors | [ ]  Bronchodilator | [ ]  Diuretics |
|  | [ ]  Intravenous Immunoglobulin | [ ]  Intravenous steroids | [ ]  Corticosteroids | [ ]  Antibiotics |
|  | [ ]  Antithymocyte globulin | [ ]  Cyclosporin | [ ]  Other |  |
|  |
|  | [ ]  Volume resuscitation (Intravenous colloids or crystalloids) |
|  |
|  | [ ]  Respiratory support *(Select the type of support)* |
|  | [ ]  Mechanical ventilation | [ ]  Noninvasive ventilation | [ ]  Oxygen |
|  |
|  | [ ]  Renal replacement therapy *(Select the type of therapy)* |
|  | [ ]  Hemodialysis | [ ]  Peritoneal | [ ]  Continuous Veno-Venous Hemofiltration |
|  |
|  | [ ]  Phlebotomy |
|  | [ ]  Other | Specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Outcome** |
|  | **\*Outcome:** | [ ]  Death | [ ]  Major or long-term sequelae | [ ]  Minor or no sequelae | [ ]  Not determined |
|  | Date of Death: | \_\_\_\_/\_\_\_\_/\_\_\_\_\_ |  |
|  | **^**If recipient died, relationship of transfusion to death: |
|  | [ ]  Definite | [ ]  Probable | [ ]  Possible | [ ]  Doubtful | [ ]  Ruled Out | [ ]  Not determined |
|  | Cause of death: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Was an autopsy performed? | [ ]  Yes | [ ]  No |
|  |
| **Component Details** |
| **\*Was a particular unit implicated in (i.e., responsible for) the adverse reaction?** | [ ]  Yes | [ ]  No | [ ]  N/A |
| Transfusion Startand **End** **Date/Time**  | **\*Component code** (check system used) | Amount transfused at reaction onset | **^**Unit number(Required for Infection and TRALI)  | **\*Unit expiration Date/Time**  | **\*Blood group** **of unit** | **Implicated** **Unit?** |
| **^IMPLICATED UNIT** |
| \_\_\_\_/\_\_\_\_/\_\_\_ | [ ]  ISBT-128 | [ ]  Entire unit[ ]  Partial unit\_\_\_\_\_\_mL | \_\_ \_\_ \_\_ \_\_ \_\_ | \_\_\_/\_\_\_/\_\_\_\_\_ | [ ]  A- | [ ]  A+ | [ ]  B- | Y |
| \_\_\_ \_\_\_:\_\_\_\_\_ | [ ]  Codabar | \_\_ \_\_ |
| \_\_\_\_/\_\_\_\_/\_\_\_ | \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ | \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | \_\_\_\_\_ : \_\_\_\_\_ | [ ] B+ | [ ]  AB- | [ ]  AB+ |
| \_\_\_ \_\_\_:\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_ \_\_ \_\_ | [ ]  O- | [ ]  O+ | [ ]  N/A |
| \_\_\_\_/\_\_\_\_/\_\_\_ | [ ]  ISBT-128 | [ ]  Entire unit[ ]  Partial unit\_\_\_\_\_\_mL  | \_\_ \_\_ \_\_ \_\_ \_\_ | \_\_\_/\_\_\_/\_\_\_\_\_ | [ ]  A- | [ ]  A+ | [ ]  B- | N |
| \_\_\_ \_\_\_:\_\_\_ \_ | [ ]  Codabar | \_\_ \_\_ |
| \_\_\_\_/\_\_\_\_/\_\_\_ | \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ | \_\_ \_\_ \_\_ \_\_ \_\_ \_\_ | \_\_\_\_\_ : \_\_\_\_\_ | [ ] B+ | [ ]  AB- | [ ]  AB+ |
| \_\_\_ \_\_\_:\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_ \_\_ \_\_ | [ ]  O- | [ ]  O+ | [ ]  N/A |
| **Custom Fields** |
| Label |  | Label |  |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_/\_\_\_\_\_\_/\_\_\_\_\_\_\_\_ |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |
| **Comments** |
|  |