



Hemovigilance Module Adverse Reaction Acute Hemolytic Transfusion Reaction

***Required for saving**

*Facility ID#: _____ NHSN Adverse Reaction #: _____

Patient Information

*Patient ID: _____ *Gender: M F Other *Date of Birth: ___/___/___
 Social Security #: _____ Secondary ID: _____ Medicare #: _____
 Last Name: _____ First Name: _____ Middle Name: _____
 Ethnicity Hispanic or Latino Not Hispanic or Not Latino
 Race American Indian/Alaska Native Asian Black or African American
 Native Hawaiian/Other Pacific Islander White
 *Blood Group: A- A+ B- B+ AB- AB+ O- O+ Blood type not done
 Transitional ABO / Transitional Rh
 Transitional ABO / Rh + Transitional ABO / Rh - 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

* Acute hemolytic transfusion reaction (AHTR)
 Immune Antibody: _____ Non-immune (specify) _____

*Case Definition

Check the following that occurred during, or within 24 hours of cessation of transfusion with **new** onset:

- Back/flank pain Chills/rigors Epistaxis Disseminated intravascular coagulation (DIC)
 Oliguria/anuria Hypotension Fever Hematuria (gross visual hemolysis)
 Pain and/or oozing at IV site Renal failure

Check all that apply: Decreased fibrinogen Decreased haptoglobin Elevated bilirubin
 Elevated LDH Hemoglobinemia Hemoglobinuria Plasma discoloration c/w hemolysis

- Spherocytes on blood film Positive direct antiglobulin test (DAT) for anti-IgG or anti-C3
 Positive elution test with alloantibody present on the transfused red blood cells
 Serologic testing is negative, and physical cause (e.g., thermal, osmotic, mechanical, chemical) is confirmed.
 Physical cause is excluded but serologic evidence is not sufficient to meet definitive criteria.
 Physical cause is suspected and serologic testing is negative.
 AHTR is suspected, but symptoms, test results, and/or information are not sufficient to confirm reaction.

Other signs and symptoms: (check all that apply)

- | | |
|-----------------|--|
| Generalized: | <input type="checkbox"/> Nausea/vomiting |
| Cardiovascular: | <input type="checkbox"/> Shock |

| | | | |
|---|---|---|--|
| Cutaneous: | <input type="checkbox"/> Edema | <input type="checkbox"/> Flushing | <input type="checkbox"/> Jaundice |
| | <input type="checkbox"/> Other rash | <input type="checkbox"/> Pruritus (itching) | <input type="checkbox"/> Urticaria (hives) |
| Hemolysis/Hemorrhage: | <input type="checkbox"/> Hemoglobinemia | <input type="checkbox"/> Positive antibody screen | |
| Pain: | <input type="checkbox"/> Abdominal pain | | |
| Respiratory: | <input type="checkbox"/> Bilateral infiltrates on chest x-ray | <input type="checkbox"/> Bronchospasm | <input type="checkbox"/> Cough |
| | <input type="checkbox"/> Shortness of breath | <input type="checkbox"/> Hypoxemia | |
| <input type="checkbox"/> Other: (specify) _____ | | | |

***Severity**

Did the patient receive or experience any of the following?

- | | |
|---|---|
| <input type="checkbox"/> No treatment required | <input type="checkbox"/> Symptomatic treatment only |
| <input type="checkbox"/> Hospitalization, including prolonged hospitalization | <input type="checkbox"/> Life-threatening reaction |
| <input type="checkbox"/> Disability and/or incapacitation | <input type="checkbox"/> Congenital anomaly or birth defect(s) of the fetus |
| <input type="checkbox"/> Other medically important conditions | <input type="checkbox"/> Death <input type="checkbox"/> Unknown or not stated |

***Imputability**

Which best describes the relationship between the transfusion and the reaction?

- ABO or other allotypic RBC antigen incompatibility is known.
- Only transfusion-related (i.e., immune or non-immune) cause of acute hemolysis is present.
- There are other potential causes present that could explain acute hemolysis, but transfusion is the most likely cause.
- Other causes of acute hemolysis are more likely, but transfusion cannot be ruled out.
- 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

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*)

| | | | | |
|---|---|---|---|------------------------------------|
| <input type="checkbox"/> Antipyretics | <input type="checkbox"/> Antihistamines | <input type="checkbox"/> Inotropes/Vasopressors | <input type="checkbox"/> Bronchodilator | <input type="checkbox"/> Diuretics |
| <input type="checkbox"/> Intravenous Immunoglobulin | <input type="checkbox"/> Intravenous steroids | <input type="checkbox"/> Corticosteroids | <input type="checkbox"/> 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 Start and 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 | | | | | | |
| ____/____/____ ____:____ | <input type="checkbox"/> ISBT-128 <input type="checkbox"/> Codabar | <input type="checkbox"/> Entire unit <input type="checkbox"/> Partial unit mL | _____ _____ _____ | ____/____/____ ____:____ | <input type="checkbox"/> A- <input type="checkbox"/> A+ <input type="checkbox"/> B- <input type="checkbox"/> B+ <input type="checkbox"/> AB- <input type="checkbox"/> AB+ <input type="checkbox"/> O- <input type="checkbox"/> O+ <input type="checkbox"/> N/A | Y |
| ____/____/____ ____:____ | <input type="checkbox"/> ISBT-128 <input type="checkbox"/> Codabar | <input type="checkbox"/> Entire unit <input type="checkbox"/> Partial unit mL | _____ _____ _____ | ____/____/____ ____:____ | <input type="checkbox"/> A- <input type="checkbox"/> A+ <input type="checkbox"/> B- <input type="checkbox"/> B+ <input type="checkbox"/> AB- <input type="checkbox"/> AB+ <input type="checkbox"/> O- <input type="checkbox"/> O+ <input type="checkbox"/> N/A | N |

Custom Fields

| Label | Label |
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