

## 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: \_\_\_/\_\_\_/\_\_\_

Sex at Birth:  M  F  Unknown Gender Identity (Specify): \_\_\_\_\_

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 / 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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Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Reports Clearance Officer, 1600 Clifton Rd., MS D-74, Atlanta, GA 30333 ATTN: PRA (0920-0666).

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? |
|-------------------------------------|---|---|---|-----------------------------|--|------------------|
| <b>^IMPLICATED UNIT</b>             |   |   |   |                             |  |                  |
| ____/____/____<br>____:____         | <input type="checkbox"/> ISBT-128<br><input type="checkbox"/> Codabar | <input type="checkbox"/> Entire unit<br><input type="checkbox"/> Partial unit<br>_____ mL | ____-____<br>____-____                          | ____/____/____<br>____:____ | <input type="checkbox"/> A- <input type="checkbox"/> A+ <input type="checkbox"/> B-<br><input type="checkbox"/> B+ <input type="checkbox"/> AB- <input type="checkbox"/> AB+<br><input type="checkbox"/> O- <input type="checkbox"/> O+ <input type="checkbox"/> N/A | Y                |
| ____/____/____<br>____:____         | <input type="checkbox"/> ISBT-128<br><input type="checkbox"/> Codabar | <input type="checkbox"/> Entire unit<br><input type="checkbox"/> Partial unit<br>_____ mL | ____-____<br>____-____                          | ____/____/____<br>____:____ | <input type="checkbox"/> A- <input type="checkbox"/> A+ <input type="checkbox"/> B-<br><input type="checkbox"/> B+ <input type="checkbox"/> AB- <input type="checkbox"/> AB+<br><input type="checkbox"/> O- <input type="checkbox"/> O+ <input type="checkbox"/> N/A | N                |

**Custom Fields**

| Label | Label |
|-------|-------|
| _____ | _____ |
| _____ | _____ |

**Comments**

