

## Hemovigilance Module Adverse Reaction Delayed 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):

- Male
- Female
- Male-to-female transgender
- Female-to-male transgender
- Identifies as non-conforming
- Other
- Asked but unknown \_\_\_\_\_

Social Security #: \_\_\_\_\_ Secondary ID: \_\_\_\_\_ Medicare #: \_\_\_\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Middle Name: \_\_\_\_\_

Ethnicity (Specify):  
Hispanic or Latino  
Not Hispanic or Latino  
Unknown  
Declined to respond  
\_\_\_\_\_

Race (Specify): (Select all that apply):

- American Indian or Alaska Native
- Asian
- Black or African American
- Middle Eastern or North African
- Native Hawaiian or Pacific Islander
- White
- Unknown
- 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: \_\_\_\_\_

Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)). CDC 57.309 Rev. 3, v9.2

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 H21-8, Atlanta, GA 30333, ATTN: PRA (0920-0666).

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: \_\_\_\_\_

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  DSTTR  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 (Only answer questions listed under the selected reaction type.)

\* Delayed hemolytic transfusion reaction (DHTR)

Immune Antibody: \_\_\_\_\_  Non-immune (specify) \_\_\_\_\_

#### \*Case Definition

Check the following that occurred between 24 hours and 28 days after cessation of transfusion:

- Positive direct antiglobulin test (DAT)
- Newly-identified red blood cell alloantibody in recipient serum
- Positive elution test with alloantibody present on the transfused red blood cells
- Inadequate rise of post-transfusion hemoglobin level or rapid fall in hemoglobin back to pre-transfusion levels
- Otherwise unexplained appearance of spherocytes

#### Check all that apply:

- Incomplete laboratory evidence
- DHTR is suspected, but reported symptoms, test results, and/or available information are not sufficient

Other signs and symptoms: (check all that apply)

Generalized:	<input type="checkbox"/> Chills/rigors	<input type="checkbox"/> Fever	<input type="checkbox"/> Nausea/vomiting
Cardiovascular:	<input type="checkbox"/> Blood pressure decrease	<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"/> Disseminated intravascular coagulation	<input type="checkbox"/> Hemoglobinemia	

Pain:	<input type="checkbox"/> Abdominal pain	<input type="checkbox"/> Back pain	<input type="checkbox"/> Flank pain	<input type="checkbox"/> Infusion site pain
Renal:	<input type="checkbox"/> Hematuria	<input type="checkbox"/> Hemoglobinuria	<input type="checkbox"/> Oliguria	
Respiratory:	<input type="checkbox"/> Bilateral infiltrates on chest x-ray	<input type="checkbox"/> Bronchospasm	<input type="checkbox"/> Cough	
	<input type="checkbox"/> Hypoxemia	<input type="checkbox"/> Shortness of breath		

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?

- No other explanation for symptoms or newly-identified antibody is present.
- An alternate explanation for symptoms or newly-identified antibody is present, but transfusion is the most likely cause.
- Other explanations for symptoms or newly-identified antibody 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	<input type="checkbox"/> Intravenous steroids	<input type="checkbox"/> Corticosteroids	<input type="checkbox"/> Antibiotics	

**Immunoglobulin**

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>						
___/___/___ :___:___	<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
_____ / _____ / _____	_____ / _____ / _____

**Comments**

