### Acute Hemolytic Transfusion Reaction

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

### Patient Information

| **Patient ID**: | _____ | **Gender**: | M | F | Other |
| **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

1. **Admitting Diagnosis**
   - Code: _____  
   - Description: ____________________________

2. **Underlying Indication for Transfusion**
   - Code: _____  
   - Description: ____________________________

3. **Comorbid Conditions at Time of Transfusion**
   - 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)).

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)*

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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:  ☐ Nausea/vomiting

Cardiovascular:  ☐ Shock
### Cutaneous:
- Edema
- Flushing
- Jaundice
- Other rash
- Pruritus (itching)
- Urticaria (hives)

### Hemolysis/Hemorrhage:
- Hemoglobinemia
- Positive antibody screen

### Pain:
- Abdominal pain

### Respiratory:
- Bilateral infiltrates on chest x-ray
- Bronchospasm
- Cough
- Shortness of breath
- Hypoxemia

### Severity
Did the patient receive or experience any of the following?
- No treatment required
- Symptomatic treatment only
- Hospitalization, including 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?
- 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

*Do you agree with the severity designation?  
- YES
- NO

*Do you agree with the imputability designation?  
- YES
- NO

### Patient Treatment
Did the patient receive treatment for the transfusion reaction?  
- YES
- NO
- UNKNOWN

If yes, select treatment(s):
- 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

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<tr>
<th>Transfusion Start and End Date/Time</th>
<th><em>Component code</em> (check system used)</th>
<th>Amount transfused at reaction onset</th>
<th>^Unit number (Required for Infection and TRALI)</th>
<th><em>Unit expiration Date/Time</em></th>
<th><em>Blood group of unit</em></th>
<th>Implicated Unit?</th>
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### Custom Fields

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### Comments