



Hemovigilance Module Adverse Reaction Transfusion Associated Circulatory Overload

*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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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 6 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:	<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	
	<input type="checkbox"/> Positive antibody screen		
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: 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, 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?
 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 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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