



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: ___/___/___
 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

Patient Medical History (Use worksheet on page 4 for additional codes and descriptions.)

(part 1) List the patient's admitting diagnosis. (Use ICD-10 Diagnostic codes/descriptions)

Code: _____ Description: _____
 Code: _____ Description: _____
 Code: _____ Description: _____

(part 2) List the patient's underlying indication for transfusion. (Use ICD-10 Diagnostic codes/descriptions)

Code: _____ Description: _____
 Code: _____ Description: _____
 Code: _____ Description: _____

(part 3) 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: _____

Continued >>

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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

Transfusion Associated Circulatory Overload

Patient Medical History (Use worksheet on page 4 for additional codes and descriptions.)

(part 4) 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: _____

(part 5) Additional Information _____

Transfusion History (Use worksheet on page 4 for additional transfusion history.)

*Has the patient received a previous transfusion? YES NO UNKNOWN

****If yes, provide information about the transfusion event. If not, skip to Reaction Details section.**

Blood Product: WB RBC Platelet Plasma Cryoprecipitate Granulocyte
 Date of Transfusion: ____/____/____ UNKNOWN

Did the patient experience a transfusion adverse reaction? 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 #: _____

After recognition of the transfusion reaction, was the current transfusion:
 Continued Stopped and restarted Stopped indefinitely

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
- None of the above

Continued >>

Transfusion Associated Circulatory Overload

Investigation Results (continued)	
Other signs and symptoms: <u>(check all that apply)</u>	
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:	<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
<input type="checkbox"/> Other: (specify) _____	
*Severity	
Did the patient receive or experience any of the following? <i>(Response definitions listed in protocol)</i>	
<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"/> Death
<input type="checkbox"/> Other medically important conditions	<input type="checkbox"/> Unknown or not stated
*Imputability	
Which best describes the relationship between the transfusion and the reaction?	
<input type="checkbox"/> No other explanations for circulatory overload are possible.	
<input type="checkbox"/> Transfusion is a likely contributor to circulatory overload	
<input type="checkbox"/> The patient has a history of a pre-existing condition(s) that most likely explains circulatory overload.	
<input type="checkbox"/> Evidence is clearly in favor of a cause other than the transfusion, but transfusion cannot be excluded.	
<input type="checkbox"/> There is conclusive evidence beyond reasonable doubt of a cause other than the transfusion.	
<input type="checkbox"/> The relationship between the adverse reaction and the transfusion is unknown or not stated.	
Did the transfusion occur at your facility? <input type="checkbox"/> YES <input type="checkbox"/> NO	
Does the patient have a history of cardiac insufficiency?	
<input type="checkbox"/> 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.	
<input type="checkbox"/> Yes, the patient has a history of pre-existing cardiac insufficiency that most likely explains circulatory overload.	
<input type="checkbox"/> No, the patient does not have a history of cardiac insufficiency.	
<i>Continued >></i>	

Transfusion Associated Circulatory Overload

Investigation Results (continued)		
Did the patient received other fluids in addition to the transfusion?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
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?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Please indicate your designation _____		
Do you agree with the severity designation?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Please indicate your designation _____		
Do you agree with the imputability designation?	<input type="checkbox"/> YES	<input type="checkbox"/> NO
Please indicate your designation _____		
Additional Information _____		

Patient Treatment
*Did the patient receive treatment for the transfusion reaction? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN If yes, select treatment(s): <input type="checkbox"/> 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 <input type="checkbox"/> Antithymocyte globulin <input type="checkbox"/> Cyclosporin <input type="checkbox"/> H1 receptor blockers <input type="checkbox"/> Other <input type="checkbox"/> Volume resuscitation (Intravenous colloids or crystalloids) <input type="checkbox"/> Respiratory support (Select the type of support) <input type="checkbox"/> Mechanical ventilation <input type="checkbox"/> Noninvasive ventilation <input type="checkbox"/> Oxygen <input type="checkbox"/> Renal replacement therapy (Select the type of therapy) <input type="checkbox"/> Hemodialysis <input type="checkbox"/> Peritoneal <input type="checkbox"/> Continuous Veno-Venous Hemofiltration <input type="checkbox"/> Phlebotomy <input type="checkbox"/> Other Specify: _____

Outcome
*Outcome: <input type="checkbox"/> Death <input type="checkbox"/> Major or long-term sequelae <input type="checkbox"/> Minor or no sequelae <input type="checkbox"/> 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

Continued >>

Transfusion Associated Circulatory Overload

Component Details (Use worksheet on page 4 for additional units.)							
*Was a particular unit implicated in (i.e., responsible for) the adverse reaction? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A							
Transfusion Start and End Date/Time	*Component code (check system used)	Amount transfused at reaction onset	Unit number	*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
____/____/____ ____:____:____ ____/____/____ ____:____:____	<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	
_____ _____ _____ _____	

Hemovigilance Module Additional Worksheet

Patient Medical History

(part 1) List the patient's admitting diagnosis. *(Use ICD-10 Diagnostic codes/descriptions)*

Code: _____	Description: _____
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(part 2) List the patient's underlying indication for transfusion. *(Use ICD-10 Diagnostic codes/descriptions)*

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Code: _____	Description: _____

(part 3) 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: _____
Code: _____	Description: _____
Code: _____	Description: _____
Code: _____	Description: _____

(part 4) 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: _____
Code: _____	Description: _____
Code: _____	Description: _____
Code: _____	Description: _____

(part 5) Additional Information _____

Hemovigilance Module Additional Worksheet

Transfusion History

Has the patient received a previous transfusion? YES NO

*****If yes, provide information about the transfusion event. If not, skip to Reaction Details section.***

Blood Product: WB RBC Platelet Plasma Cryoprecipitate Granulocyte

Date of Transfusion: ___/___/___ UNKNOWN

Did the patient experience a transfusion adverse reaction? 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
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Hemovigilance Module Additional Worksheet

Component Details						
*Was a particular unit implicated in (i.e., responsible for) the adverse reaction? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A						
Transfusion Start and End Date/Time	*Component code (check system used)	Amount transfused at reaction onset	Unit number	*Unit expiration Date/Time	*Blood group of 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	N
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<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
____/____/____ ____:____ ____/____/____ ____:____	<input type="checkbox"/> ISBT-128	<input type="checkbox"/> Entire	_____ ____-____	____/____/____ ____:____	<input type="checkbox"/> A- <input type="checkbox"/> A+ <input type="checkbox"/> B-	N

