



Biovigilance Component Hemovigilance Module Adverse Reaction and Denominator Reporting

Objectives

- ❑ **Review adverse reaction reporting**
- ❑ **Provide instructions for completing an Adverse Reaction form in NHSN**
 - Describe how to link adverse reactions to incidents
- ❑ **Provide instructions for completing a Monthly Reporting Denominators form in NHSN**
- ❑ **Review an adverse reaction case study**

Adverse Reactions Definition

A transfusion-related adverse reaction is an undesirable response or effect in a patient temporally associated with the administration of blood or blood components. It may or may not be the result of an incident.

Hemovigilance Module Adverse Reactions Reporting Requirements

- ❑ **All CDC-defined transfusion-associated adverse reactions that are possibly, probably, or definitely related to a transfusion performed by the participating facility must be reported to NHSN on an Adverse Reaction form.**
- ❑ **Report one adverse reaction per form.**
 - If a patient experiences two reactions, two separate forms must be completed.

Hemovigilance Module Adverse Reactions Reporting Requirements

- ❑ **Reports should be entered after the investigation is complete and imputability has been determined.**
 - After an investigation has been completed and a report entered, reports can still be edited to include new information.
- ❑ **The Hemovigilance Module DOES NOT replace the FDA's mandatory requirements for reporting blood transfusion-related deaths or Blood Product Deviation reporting.**
- ❑ **Detailed instructions on completing the form are provided on the Website.**

Hemovigilance Module Adverse Reactions

The 12 defined adverse reactions:

- Transfusion-associated circulatory overload (TACO)
- Transfusion-related acute lung injury (TRALI)
- Transfusion-associated dyspnea (TAD)
- Allergic reaction (when severity = severe, life threatening, or death)
- Hypotensive transfusion reaction
- Febrile non-hemolytic transfusion reaction (FNHTR)
- Acute hemolytic transfusion reaction (AHTR)
- Delayed hemolytic transfusion reaction (DHTR)
- Delayed serologic transfusion reaction (DSTR)
- Transfusion-associated graft vs. host disease (TAGVHD)
- Post transfusion purpura (PTP)
- Transfusion-transmitted infection (TTI)

Hemovigilance Module Adverse Reaction Case Classification Tables

Case Definition

- Criteria used to classify adverse reactions

Severity

- Degree to which the patient developed symptoms

Imputability

- Assessment of the relationship between the transfusion and the adverse reaction

Reporting Optional section added

NHSN Biovigilance Component
Hemovigilance Module Surveillance Protocol v2.1.1
www.cdc.gov/nhsn



Febrile non-hemolytic transfusion reaction (FNHTR)
Note: Reactions may be classified as FNHTRs in the absence of fever if chills or rigors occur.

Case Definition	Severity	Imputability
<p>Definitive: Occurs during or within 4 hours of cessation of transfusion AND EITHER Fever (greater than or equal to 38°C/100.4°F oral and a change of at least 1°C/1.8°F) from pre-transfusion value) OR Chills/rigors are present.</p> <p>Probable: N/A</p> <hr/> <p style="text-align: center;">OPTIONAL</p> <p>Possible: FNHTR is suspected, but reported symptoms and/or available information are not sufficient to meet the criteria defined above. Other, more specific adverse reaction definitions do not apply.</p>	<p>Non-severe: Medical intervention (e.g. symptomatic treatment) is required but lack of such would not result in permanent damage or impairment of a bodily function.</p> <p>Severe: Inpatient hospitalization or prolongation of hospitalization is directly attributable to the adverse reaction, persistent or significant disability or incapacity of the patient occurs as a result of the reaction, or a medical or surgical intervention is necessary to preclude permanent damage or impairment of a body function.</p> <p>Life-threatening: Major intervention required following the transfusion (e.g. vasopressors, intubation, transfer to intensive care) to prevent death.</p> <p>Death: The recipient died as a result of the adverse transfusion reaction. Death should be used if death is possibly, probably or definitely related to transfusion. If the patient died of a cause other than the transfusion, the severity of the reaction should be graded as appropriate given the clinical circumstances related to the reaction.</p> <p>Not Determined: The severity of the adverse reaction is unknown or not stated.</p>	<p>Definite: Patient has no other conditions that could explain signs/symptoms.</p> <p>Probable: There are other potential causes present that could explain signs/symptoms, but transfusion is the most likely cause.</p> <p>Possible: Other present causes are most likely, but transfusion cannot be ruled out.</p> <hr/> <p style="text-align: center;">OPTIONAL</p> <p>Doubtful: Evidence is clearly in favor of a cause other than the transfusion, but transfusion cannot be excluded.</p> <p>Ruled Out: There is conclusive evidence beyond reasonable doubt of a cause other than the transfusion.</p> <p>Not Determined: The relationship between the adverse reaction and the transfusion is unknown or not stated.</p>

Before Entering Event Forms

Be sure that your facility has completed:

- **Annual Facility Survey**
- **Monthly Reporting Plan(s)**

Adverse Reaction Form and Table of Instructions



OMB No. 0930-0666
Exp. Date: 05-31-2014
www.cdc.gov/nhsn

Hemovigilance Module Adverse Reaction

*Required for saving

*Facility ID#:		NHSN Adverse Reaction #:	
Patient Information			
*Patient ID: _____	*Gender: <input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other	*Date of Birth: ___/___/___	
Social Security #: _____		Secondary ID: _____ Medicare #: _____	
Last Name: _____		First Name: _____ Middle Name: _____	
Ethnicity <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Not Hispanic or Not Latino			
Race <input type="checkbox"/> American Indian/Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African American			
<input type="checkbox"/> Native Hawaiian/Other Pacific Islander <input type="checkbox"/> White			
*Blood Group: <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"/> Type and crossmatch not done			
*Primary underlying reason for transfusion: <input type="checkbox"/> Coagulopathy <input type="checkbox"/> Genetic Disorder <input type="checkbox"/> Hematology Disorder			
<input type="checkbox"/> Hemolysis <input type="checkbox"/> Internal Bleeding <input type="checkbox"/> Malignancy <input type="checkbox"/> Medical <input type="checkbox"/> Surgery <input type="checkbox"/> Unknown			
<input type="checkbox"/> Other (specify) _____			
Reaction Details			
*Date reaction occurred: ___/___/___			
*Time reaction occurred: ___:___ (HH:MM) <input type="checkbox"/> Time unknown			
*Facility location where patient was transfused: _____			
*Is this reaction associated with an incident? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, Incident #: _____			
*Signs and symptoms, laboratory: (check all that apply)			
Cardiovascular:	Cutaneous:	Pain:	
<input type="checkbox"/> Blood pressure decrease	<input type="checkbox"/> Edema	<input type="checkbox"/> Abdominal pain	
<input type="checkbox"/> Shock	<input type="checkbox"/> Flushing	<input type="checkbox"/> Back pain	
Hemolysis/Hemorrhage	<input type="checkbox"/> Jaundice	<input type="checkbox"/> Flank pain	
<input type="checkbox"/> Disseminated intravascular coagulation	<input type="checkbox"/> Other rash	<input type="checkbox"/> Infusion site pain	
<input type="checkbox"/> Hemoglobinemia	<input type="checkbox"/> Pruritus (itching)	Respiratory:	
<input type="checkbox"/> Positive antibody screen	<input type="checkbox"/> Urticaria (hives)	<input type="checkbox"/> Bilateral infiltrates on chest x-ray	
Generalized:	Renal:	<input type="checkbox"/> Bronchospasm	
<input type="checkbox"/> Chills/rigors	<input type="checkbox"/> Hematuria	<input type="checkbox"/> Cough	
<input type="checkbox"/> Fever	<input type="checkbox"/> Hemoglobinuria	<input type="checkbox"/> Hypoxemia	
	<input type="checkbox"/> Oliguria	<input type="checkbox"/> Shortness of breath	
<input type="checkbox"/> Other: (specify) _____			
<p><small>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(s) of the Public Health Service Act (42 USC 242b, 242c, and 242m)(6).</small></p> <p><small>Public reporting burden of this collection of information is estimated to average 10 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 (0930-0666).</small></p>			

CDC 57.304 Rev. 3, v6.6.1



NHSN Surveillance Component
Table of instruction v1.3
www.cdc.gov/nhsn

Table 5. Hemovigilance Module Adverse Reaction (CDC 57.304)

Data Field	Instructions for Form Completion
Facility ID#	The Facility ID number will be auto entered by NHSN.
Adverse Reaction #	An adverse reaction number will be auto entered by NHSN.
Patient Information	
Patient ID	Required. Enter the medical record number or other facility alphanumeric identification code for the patient. Note: Facility patient information is shared across NHSN Component. When an IMRN is entered for a patient that has been previously entered for another NHSN event, the patient information will automatically populate. NHSN is HIPPA compliant; it is not recommended to devise a unique patient identifier for NHSN.
Gender	Required. Select the gender of the transfusion recipient.
Date of birth	Required. Enter the date of birth of the transfusion recipient.
Social Security #	Optional. For local use only.
Secondary ID	Optional. For local use only.
Medicare #	Optional. For local use only.
Last Name	Optional. For local use only.
First Name	Optional. For local use only.
Middle Name	Optional. For local use only.
Ethnicity	Optional. For local use only.
Race	Optional. For local use only.
Blood group	Required. Select the blood group of the transfusion recipient. Note: If the patient's blood type does not clearly match a single blood type, select the most relevant blood type and make a note in the comments section of the form. For example, if a patient is typing with mixed field reactions following a bone marrow transplant, select the predominant blood type and enter a note in the comments section such as, "Group A recipient of group O bone marrow transplant currently typing as mixed field."
Primary underlying reason for transfusion	Required: Select the primary reason this patient received a transfusion. If none of the options are adequate, select "other" and specify the reason in detail. Avoid using "anemia" as it does not describe the underlying medical condition of the transfusion recipient.
Reaction Details	
Date reaction occurred	Required. Enter the date the reaction was first observed in the transfusion recipient.
Time reaction occurred	Required. Enter the time the reaction was first observed in the transfusion recipient using a 24-hour clock.

Entering an Adverse Reaction Form

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (ISD-CLFT-NHSN1:8081)

Logged into Pleasant Valley Hospital (ID 10312) as KOO.
Facility Pleasant Valley Hospital (ID 10312) is following the BV component.

NHSN Hemovigilance Module Home Page

Use the Navigation bar on the left to access the features of the app

Assurance of Confidentiality: The voluntarily provided information obtained in this system, which is collected with a guarantee that it will be held in strict confidence, will be used only with the informed consent of the individual, or the institution in accordance with Sections 304, 306 and 307 of the HIPAA Privacy Rule.

Navigation Bar:

- NHSN Home
- Reporting Plan
- Patient Incident
- Reaction
 - Add
 - Find
 - Incomplete
- Summary Data
- Analysis
- Surveys
- Users
- Facility Group
- Log Out

Click "Reaction," then "Add"

Patient Information



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

[NHSN Home](#) | [My Info](#) | [Contact us](#) | [Help](#) | [Log Out](#)

[NHSN Home](#)

[Reporting Plan](#)

[Patient](#)

[Incident](#)

[Reaction](#)

[Add](#)

[Find](#)

[Incomplete](#)

[Summary Data](#)

[Analysis](#)

[Surveys](#)

[Users](#)

[Facility](#)

[Group](#)

[Log Out](#)

Logged into NHSN Test KWC Memorial (ID 24976) as KWC.
Facility NHSN Test KWC Memorial (ID 24976) is following the BV component.

Add Adverse Reaction

Mandatory fields marked with *
Conditionally required fields marked with ^

Patient Information

*Facility ID: NHSN Test KWC Memorial (ID 24976) ▾

Adverse Reaction #:

*Patient ID: ABC123

Social Security #:

Secondary ID:

Medicare #:

Last Name: Smith

First Name: Joe

Middle Name:

*Gender: M - Male ▾

*Date of Birth: 05/05/1955

Ethnicity:

Race: American Indian/Alaska Native Asian

Black or African American Native Hawaiian/Other Pacific Islander

White

*Blood Group: A- ▾

*Primary underlying reason for transfusion: MEDICAL - Medical ▾

Fields marked with a red asterisk (*) are mandatory

Patient Information

Patient Information

Incomplete

Summary Data

Analysis

Surveys

Users

Facility Group

Log Out

*Facility ID: KWC Test Hospital (ID 10976) ▼

*Patient ID: Find Find Reactions for Patient

Adverse Reaction #:

Secondary ID:

Social Security #:

Last Name:

Medicare #:

Middle Name:

First Name:

*Gender: ▼

*Date of Birth:

Ethnicity: ▼

Race: American Indian/Alaska Native Asian

Black or African American Native Hawaiian/Other Pacific Islander

White

*Blood Group: ▼

*Primary underlying reason for transfusion: ▼

Reaction Details

Patient Information

- Patient information is shared across NHSN Components.
- If a Patient ID is recognized by NHSN, the system will auto-fill the patient information.
- If a Patient ID is not recognized by NHSN, a new patient can be added to NHSN directly from the Adverse Reaction form.
- Creating a unique patient identifier for Patient ID is not recommended; use medical record numbers or other standard facility identification code for Patient ID.

Reaction Details

Reason:
transfusion:

Reaction Details

*Date reaction occurred: 03/14/2012 

*Time reaction occurred: 15 : 00 (HH:MM) Time unknown

*Facility location where patient was transfused: IN-DIAL - INPATIENT DIALYSIS

Reaction is not Linked

*Signs and symptoms, laboratory: (check all that apply)

<u>Generalized:</u>	<input type="checkbox"/> Chills/rigors	<input type="checkbox"/> Fever		
<u>Cardiovascular:</u>	<input type="checkbox"/> Blood pressure decrease	<input type="checkbox"/> Shock		
<u>Cutaneous:</u>	<input type="checkbox"/> Edema	<input checked="" type="checkbox"/> Flushing	<input type="checkbox"/> Jaundice	<input type="checkbox"/> Other rash
	<input type="checkbox"/> Pruritus	<input checked="" type="checkbox"/> Urticaria		
<u>Hemolysis/Hemorrhage:</u>	<input type="checkbox"/> Disseminated intravascular coagulation	<input type="checkbox"/> Hemoglobinemia	<input type="checkbox"/> Positive antibody screen	
<u>Pain:</u>	<input type="checkbox"/> Abdominal pain	<input type="checkbox"/> Back pain	<input type="checkbox"/> Flank pain	<input type="checkbox"/> Infusion site pain
<u>Renal:</u>	<input type="checkbox"/> Hematuria	<input type="checkbox"/> Hemoglobinuria	<input type="checkbox"/> Oliguria	
<u>Respiratory:</u>	<input type="checkbox"/> Bil. infiltrates on chest x-ray	<input type="checkbox"/> Bronchospasm	<input type="checkbox"/> Cough	<input type="checkbox"/> Hypoxemia
	<input type="checkbox"/> Shortness of breath			
<u>Other:</u>	<input type="checkbox"/> Other			

Investigative results: (define anemia (col.))

More information on Link/Unlink Incidents will be provided later in this training session.

Reaction Details

❑ **Date and time reaction occurred**

- For acute reactions, use the date and time the symptoms were first observed.
- For delayed reactions, use the date of test identifying new antibodies or date patient noticed symptoms.

❑ **Facility location where patient was transfused**

- Only report reactions for recipients who were transfused in your facility.

❑ **Signs and symptoms, laboratory**

- Check all that apply and use 'Other' to include signs and symptoms or laboratory results not listed.
- See Section 3 in the protocol for a glossary of signs and symptoms.

Investigation Results

Respiratory:

- Bil. infiltrates on chest x-ray Bronchospasm Cough Hy
- Shortness of breath

Other:

- Other

Investigation Results (Use case definition criteria in protocol.)

* Adverse reaction:

* Case definition crit

* Severity:

* Imputability:

Outcome

* Outcome:

Component Details

* Was a particular component implicated in the adverse reaction?

ALLERG - Allergic reaction, including anaphylaxis
AHTR - Acute hemolytic transfusion reaction
DHTR - Delayed hemolytic transfusion reaction
DSTR - Delayed serologic transfusion reaction
FNHTR - Febrile non-hemolytic transfusion reaction
HTR - Hypotensive transfusion reaction
INF - Infection
PTP - Post transfusion purpura
TACO - Transfusion associated circulatory overload
TAD - Transfusion associated dyspnea
TA-GVHD - Transfusion associated graft vs. host disease
TRALI - Transfusion related acute lung injury
UNK - Unknown pathophysiology
OTHER - Other

Investigation Results

❑ Adverse Reactions

- Using the case classification tables in the protocol, select the appropriate reaction.
 - If the reaction cannot be diagnosed, select 'Unknown pathophysiology.'
 - If the reaction can be diagnosed, but does not match one of the 12 defined adverse reactions listed, select 'Other' and specify the reaction.

❑ Using the protocol, determine case definition, severity, and imputability.

❑ Update the record if new information becomes available after the reaction has been entered.

Outcome

*Imputability: DEF - Definite

Outcome

*Outcome: DEATH - Death

Note: deaths attributable to transfusion must be reported to FDA

Date of death: 

*If recipient died, relationship of transfusion to death:

Component Details

*Was a particular unit implicated in the adverse reaction?

□ Outcomes

- Select the appropriate clinical outcome of the patient.
- If the recipient died following the adverse reaction, enter the date of death whether or not the death was transfusion related.
 - Enter the relationship of the transfusion to death using the imputability criteria for “Other or Unknown” in Section 3 of the protocol.

Component Details

Date of birth:

*If recipient died, relationship of transfusion to death:

Component Details

*Was a particular unit implicated in the adverse reaction?

	*Transfusion Date / Time MM/DD/YYYY HH:MM	*Component code (check system used)	*# of units	^Unit number <i>Required for TRALI, GVHD, Infection</i>	*Unit expiration Date / Time MM/DD/YYYY HH:MM	*Blood group of unit	Implicated in the adverse reaction?
	03/13/2012 08 : 00	<input checked="" type="radio"/> ISBT-128 <input type="radio"/> Codabar <input type="text" value="E0773"/> Thawed FRESH FROZEN PLASMA CPD/XX/refg	1	Facility <input type="text"/> Year <input type="text"/> Sequence <input type="text"/> Vertical Digits <input type="text"/> Checksum Char <input type="text"/> <input type="text"/>	03/19/2012 23 : 59	A-	<input checked="" type="checkbox"/>
	03/13/2012 14 : 00	<input checked="" type="radio"/> ISBT-128 <input type="radio"/> Codabar <input type="text" value="E0160"/> RED BLOOD CELLS CPD/450mL/refg Open Plasma added	1	Facility <input type="text"/> Year <input type="text"/> Sequence <input type="text"/> Vertical Digits <input type="text"/> Checksum Char <input type="text"/> <input type="text"/>	03/15/2012 23 : 59	A-	<input type="checkbox"/>

Add Row

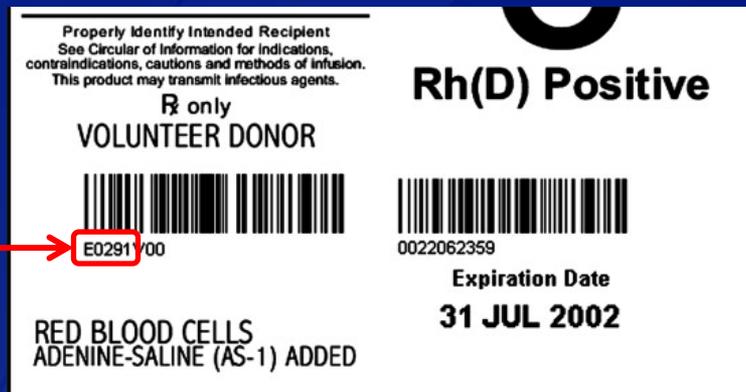
Custom Fields

Component Details

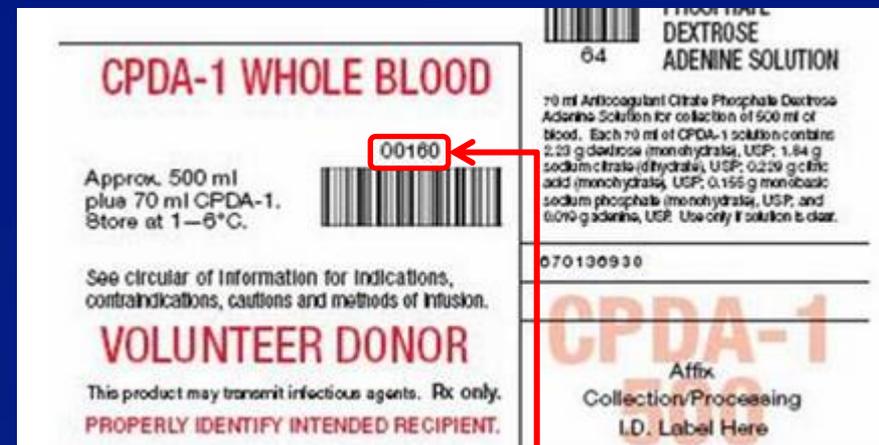
- ❑ **Was a particular unit implicated in the adverse reaction?**
 - If only ONE unit was transfused, that unit must be **implicated** in the reaction (except when reporting TACO).
 - If multiple units were transfused, and a single unit can be **implicated** as the cause, the implicated unit must be entered on the FIRST row.
 - If multiple units were transfused, but a single unit cannot be identified as the cause, no unit can be called **implicated**.
 - Enter additional rows as needed.

Component Codes

- ❑ Two code systems used for blood products:
 - ISBT-128
 - Codabar
- ❑ The 5-digit code for the blood product entered in NHSN should match the product description generated by the application.



ISBT-128 product code



Codabar product code

Don't forget to **SAVE!**



A screenshot of a web form interface, presented as if it were a piece of paper with torn edges. The form has a light blue sidebar on the left. The main content area is white and contains two sections: "Custom Fields" and "Comments". Below the "Comments" section, there are two buttons: "Save" and "Back". A yellow sunburst icon is positioned over the "Save" button, and a mouse cursor is pointing at it, indicating that the user should click "Save".

- ❑ **Remember to *SAVE* before leaving the page.**
 - Forms cannot be left unfinished and completed later.
 - Forms cannot be saved unless all required fields are entered.

Linking Incident Records to Adverse Reaction Records

The screenshot shows a portion of the NHSN Adverse Reaction form. At the top, the word 'transfusion:' is visible. Below it is the 'Reaction Details' section with a 'HELP' icon. The form includes fields for: '*Date reaction occurred:', '*Time reaction occurred:' (with HH:MM format and a 'Time unknown' checkbox), and '*Facility location where patient was transfused:'. A red box highlights a button labeled 'Link/Unlink To Incidents' and the text 'Reaction is not Linked'. Below this, there is a section for '*Signs and symptoms, laboratory: (check all that apply)' with sub-sections for 'Generalized:', 'Cardiovascular:', and 'Cutaneous:', each with several checkboxes for symptoms like 'Chills/rigors', 'Fever', 'Blood pressure decrease', 'Shock', 'Flus', etc.

- ❑ Incidents that are associated with adverse reactions must be linked to adverse reaction records in NHSN.
- ❑ Incident records must be entered before they can be linked to Adverse Reaction records.
- ❑ Use the “Link/Unlink To Incidents” button on the Adverse Reaction form to link the records.

Linking Adverse Reactions to Incidents

Incident form

*Incident result: 1 - Product transfused; reaction

*Product action: (check all that apply)

Not applicable

Product retrieved

Product destroyed

Product issued but not transfused

Product transfused

*Was a patient reaction associated with this incident? Y-Yes

Patients

*Patient ID

ABC1234

Add Row

*Record/other action: (check all that apply)

Record corrected Floor/clinic notified Attending phy

- On the Incident form, select
 - Incident result: 1 – Product transfused; reaction
 - Product action: Product transfused
 - Enter Patient ID(s)

Adverse Reaction form

Incident reaction

Add

Find

Incomplete

Summary Data

Analysis

Surveys

Users

Facility

Group

Mandatory fields marked with *

Conditionally required fields marked with ^

Patient Information

*Facility ID: NHSN Test KWC Memorial (ID 24976)

*Patient ID: ABC1234 Find Find Reactions for

Secondary ID:

Last Name:

Reaction Details

*Date reaction occurred: (HH:MM)

*Time reaction occurred: (HH:MM) Time unk

*Facility location where patient was transfused:

Link/Unlink To Incidents Reaction is not Linked

*Signs and symptoms of patient (check all that apply)

- On the Adverse Reaction form
 - Click the "Link/Unlink To Incident" button

The Patient ID must be the same on both forms!

Linking Incident Records to Adverse Reaction Records

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (apt-v-nhsn-test:8081) | NHSN Home | My Info | Contact us | Help | Log Out

Logged into KWC Test Hospital (ID 10976) as KOO.
Facility KWC Test Hospital (ID 10976) is following the BV component.

Incident Link List

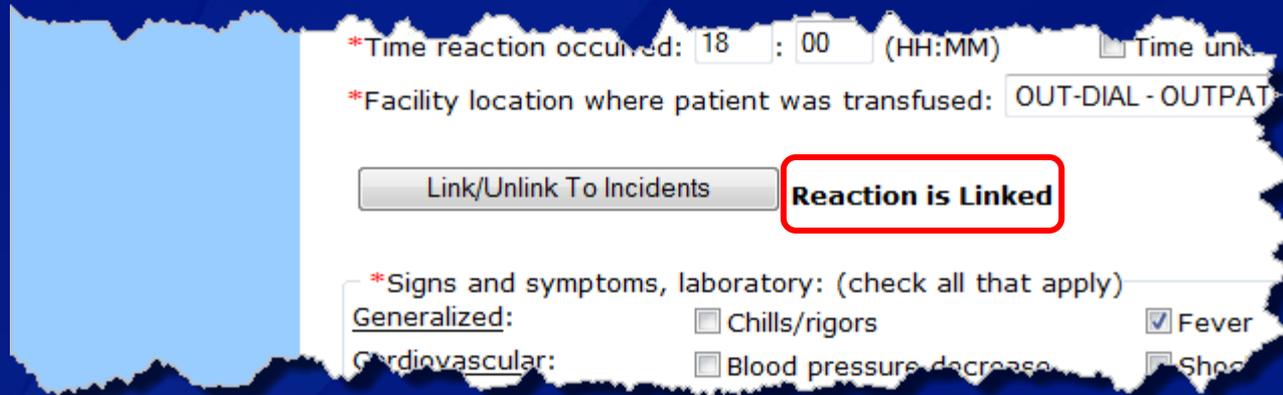
First | Previous | Next | Last Displaying 1 - 2 of 2

Check all that apply	Incident #	Patient ID	Date incident occurred	Where in the process the incident first occurred	Incident code
<input type="checkbox"/>	548	ABC1234	05/05/2012	AV	AV 00
<input checked="" type="checkbox"/>	549	ABC1234	05/06/2012	PC	PC 01

First | Previous | Next | Last Displaying 1 - 2 of 2

- ❑ All incident records with matching Patient ID(s) will show on the Incident Link List.
- ❑ Select the Incident records that are associated with the adverse reaction and click "Link/Unlink."

Linking Adverse Reaction to Incidents



*Time reaction occurred: 18 : 00 (HH:MM) Time unk.

*Facility location where patient was transfused: OUT-DIAL - OUTPAT

Reaction is Linked

*Signs and symptoms, laboratory: (check all that apply)

Generalized: Chills/rigors Fever

Cardiovascular: Blood pressure decrease Shock

- ❑ Once the Incident record is linked to the Adverse Reaction record, “Reaction is Linked” will appear next to the “Link/Unlink To Incidents” button.
- ❑ Remember that Patient ID must match on both the Incident form and Adverse Reaction form.

Topics Covered So Far...

- ❑ Navigating NHSN
- ❑ Adverse reaction case definition criteria
- ❑ Entering an Adverse Reaction form in NHSN
- ❑ Linking Adverse Reaction records to Incidents records

Coming Up Next...

- ❑ Monthly Reporting Denominators
- ❑ Adverse Reaction case study

Hemovigilance Module

Monthly Reporting Denominators

- ❑ Denominator forms are entered at the end of each reporting month.**
- ❑ Facilities must report the total number of units and/or aliquots of specified blood products transfused each month.**
- ❑ The total number of samples collected for type and screen and/or crossmatch must also be reported.**
- ❑ The denominator form must be used to report when no adverse reactions or incidents occur in a month.**

Entering a Monthly Reporting Denominator Form

The screenshot shows the NHSN web application interface. At the top left is the CDC logo. The header text reads "Department of Health and Human Services Centers for Disease Control and Prevention". Below the header, there is a navigation bar with "NHSN - National Healthcare Safety Network (apt-v-nhsn-test:8081) | NHSN Home | My Info | Contact us |". The main content area is titled "Add Summary Data". On the left side, there is a navigation menu with items: "NHSN Home", "Reporting Plan", "Patient", "Incident", "Reaction", "Summary Data" (highlighted with a red box), "Add", "Find", "Incomplete", "Analysis", "Surveys", "Users", and "Facility". The "Summary Data" section is expanded, showing a dropdown menu for "Summary Data Type:". The dropdown menu is open, showing "Monthly Reporting Denominators" (selected, with a blue highlight and a red arrow pointing to it), "Monthly Incident Summary", and "Continue" and "Back" buttons. The text "Logged into KWC Test Hospital (ID 10976) as KOO. Facility KWC Test Hospital (ID 10976) is following the BV component." is visible above the main content area.

- ❑ Select "Summary Data"
- ❑ Click "Add"
- ❑ Select "Monthly Reporting Denominators" from the drop-down menu
- ❑ Click "Continue"

Entering a Monthly Reporting Denominator Form

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (apt-v-nhsn-test:8081) | NHSN Home | My Info | Contact us | Help | Log Out

Logged into KWC Test Hospital (ID 10976) as KOO.
Facility KWC Test Hospital (ID 10976) is following the BV component.

Add Monthly Reporting Denominators

Mandatory fields marked with *

* Facility ID: 10976 (KWC Test Hospital)

* Month:
* Year:

No Adverse Reactions reported this month No Incidents reported this month

Product	*Units Transfused	*Aliquots Transfused
Red blood cells		
Whole blood derived		
TOTAL		

[Print PDF Form](#)

Select the month and year from the drop-down menu.

Entering a Monthly Reporting Denominator Form

CDC Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network (apt-v-nhsn-test:8081) | NHSN Home | My Info | Contact us | Help | Log Out

NHSN Home Logged into KWC Test Hospital (ID 10976) as KOO.
Facility KWC Test Hospital (ID 10976) is following the BV component.

Add Monthly Reporting Denominators

Mandatory fields marked with *

[HELP](#)

* Facility ID: 10976 (KWC Test Hospital)

* Month:

* Year:

No Adverse Reactions reported this month No Incidents reported this month

[Print PDF Form](#)

Product	*Units Transfused	*Aliquots Transfused
Red blood cells	<input type="text"/>	<input type="text"/>
Whole blood derived	<input type="text"/>	<input type="text"/>
TOTAL	<input type="text"/>	<input type="text"/>
Irradiated	<input type="text"/>	<input type="text"/>

- ❑ Check the appropriate box if no adverse reactions or incidents occurred during the month.
- ❑ The no adverse reaction box cannot be checked if an Adverse Reaction form has been entered.
- ❑ The no incidents box cannot be checked if an Incident or Monthly Incident Summary form have been entered.

Hemovigilance Module

Monthly Reporting Denominators Form

Incomplete
Analysis
Surveys
Users
Facility
Group
Log Out

*Month: March
*Year: 2012

No Adverse Reactions reported this month No Incidents reported this month

Product			*Units Transfused	*Aliquots Transfused
Red blood cells	Whole blood derived	TOTAL	500	30
		Irradiated	100	10
		Leukocyte reduced	200	10
		Irradiated and leukocyte reduced	100	10
	Apheresis	TOTAL	200	10
		Irradiated	75	0
		Leukocyte reduced	100	0
		Irradiated and leukocyte reduced	25	10
Platelets	Whole blood derived	TOTAL		

- ❑ The number of modified units does not need to equal the TOTAL units/aliquots transfused
 - The total units transfused is not inclusive of all modifications
- ❑ Do not include the units from which aliquots were made in the units transfused count.

Case Study

At approximately 14:15 on 3/05/2012 patient J. Doe was halfway through a transfusion of plasma, which began at approximately 12:15, when she complained of bilateral itchiness on her arms. The nurse slowed the transfusion rate, but within 5 minutes, bright red macula appeared on both forearms. Diphenhydramine was administered with relief of symptoms. Transfusion reaction investigation was negative for hemolysis. The patient had not been previously transfused.

Case Study



Department of Health and Human Services
Centers for Disease Control and Prevention

NHSN - National Healthcare Safety Network

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[Summary Data](#)

[Analysis](#)

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Logged into NHSN Test KWC Memorial (ID 24976) as KWC.
Facility NHSN Test KWC Memorial (ID 24976) is following the BV component.

Edit Adverse Reaction

Mandatory fields marked with *

Conditionally required fields marked with ^

[Print PDF Form](#)

Patient Information

*Facility ID: NHSN Test KWC Memorial (ID 24976) v

Adverse Reaction #: 6456

*Patient ID: JD1234

[Reassign](#)

[Find Reactions for Patient](#)

Social Security #:

Secondary ID:

Medicare #:

Last Name: Doe

First Name: Jane

Middle Name:

*Gender: F - Female v

*Date of Birth: 11/21/1963

Ethnicity: NOHISP - Not Hispanic or Not Latino v

Race: American Indian/Alaska Native Asian

Black or African American Native Hawaiian/Other Pacific Islander

White

*Blood Group: O-

*Primary underlying
reason for
transfusion:

MEDICAL - Medical v

Case Study

- ❑ **Enter the Patient ID and select “Find”**
 - If the Patient ID is not recognized, enter the new patient information in Patient Information section.
 - Complete optional fields as desired (NHSN does not analyze optional field data).

- ❑ **Patient Information shared across all components**
 - Use MRN or other facility identification numbers for Patient ID.
 - Do not create a unique Patient ID for NHSN reporting.

Case Study

transfusion:

Reaction Details

*Date reaction occurred: 03/05/2012 

*Time reaction occurred: 14 : 15 (HH:MM) Time unknown

*Facility location where patient was transfused: 3MED-WEST - MEDICAL WARD 3RD FLOOR-WEST

[Link/Unlink To Incidents](#)

Reaction is not Linked

*Signs and symptoms, laboratory: (check all that apply)

Generalized:

Chills/rigors Fever

Cardiovascular:

Blood pressure decrease Shock

Cutaneous:

Edema Flushing Jaundice Other rash
 Pruritus Urticaria

Hemolysis/Hemorrhage:

Disseminated intravascular coagulation Hemoglobinemia Positive antibody screen

Pain:

Abdominal pain Back pain Flank pain Infusion site pain

Renal:

Hematuria Hemoglobinuria Oliguria

Respiratory:

Bil. infiltrates on chest x-ray Bronchospasm Cough Hypoxemia
 Shortness of breath

Other:

Other

Investigation Results (Use case definition criteria in protocol.)

*Investigation results (Use case definition criteria in protocol.)

Case Study

Other: Other

Investigation Results (Use case definition criteria in protocol.)

*Adverse reaction: ALLERG - Allergic reaction, including anaphylaxis ▼

*Case definition criteria: DEF - Definitive ▼

*Severity: NS - Non-severe ▼

*Imputability: DEF - Definite ▼

Outcome

*Outcome: NOSEQ - Minor or no sequelae ▼

Component Details

*Was a particular unit implicated in the adverse reaction? Y - Yes ▼

Remember!

- ❑ **Report only one adverse reaction per form.**
- ❑ **Enter Incident records first to link Adverse Reactions.**
- ❑ **Remember to SAVE!**
- ❑ **Enter Monthly Reporting Denominators at the end of each month.**
- ❑ **Continue reporting blood transfusion-associated adverse events to FDA as required.**



**Questions or Need Help?
Contact User Support**

