2011 National Blood Collection and Utilization Survey

Instructions: Please read carefully!

- This survey can be submitted either online (www.bloodsurvey.org) or by mailing it in the enclosed postage paid envelope to AABB Survey Processing Center, C/o Images to Data, 212 Decatur Street, Suite 102, Doylestown, PA 18901. This will be on the only paper copy of the survey that you receive.
- We encourage you to complete the survey online for data accuracy. Check the cover memo for details about an incentive to show our thanks for your participation.
- Report all data for the <u>2011 calendar year</u>, 1/1/11 through 12/31/11, unless otherwise specified (some questions are about current practices only). If your institution cannot provide calendar year data, please report data for the most recent 12-month period that your institution has available.
- Answer all questions—DO NOT LEAVE ANY ITEMS BLANK, unless instructed to skip an item.
- If your answer is zero, it is important that you enter "0" rather than leaving a blank.
- Be sure your responses are printed clearly and legibly.
- Consult your records whenever possible to provide the most accurate information available. If records are not available, please provide your best estimate, or that of your most qualified co-worker. It may be necessary for you to forward this questionnaire to another department for completion of some items.
- Before you begin, read the glossary on the inside back cover of this booklet. Terms included in the glossary are underlined when first used in the survey.
- If you have any questions, please call the toll-free survey helpline at 800-793-9376 or send an e-mail to <u>dataprograms@aabb.org</u>.
- Frequently asked questions and answers are listed on AABB's NBCUS web page www.bloodsurvey.org.
- Be sure to make and keep a copy of your completed questionnaire before returning it.

Thank you in advance for your assistance with this important survey!

Section A: General Information

Prefix	First Name	Last Name	Title/Position	Telephone	E-mail	Sect
						<u> </u>
Is your	institution [Ch	oose one]:				
	ical or regional	blood center (no	n-hospital) that coll	ects blood from a	lonors and	
	supplies bloo ospital-based bl (may be only	d and components ood bank and <u>tra</u>	n-hospital) that coll to other institutions unsfusion service th ected) and provides m?	? at collects blood	from donors	sfusior
□ ₂Ah	supplies bloo ospital-based bl (may be only primarily to y cansfusion serv	d and components ood bank and <u>tra</u> autologous or dir our own institutio	to other institution Insfusion service th ected) and provides	s? at collects blood blood and compo	from donors nents for tran	sfusion
 A h A tr A lo comp tran 	supplies bloo ospital-based bl (may be only primarily to y collect blood ocal or regional conents, and cro sfusion service	d and components ood bank and <u>tra</u> autologous or dir our own institutio ice that provides b from donors? blood center that ss matched blood	to other institution: Insfusion service the ected) and provides m? lood and componen collects blood from products to particip the service is not li	s? at collects blood blood and compo ts for transfusion t donors and supp ating facilities (su	from donors nents for tran , but does not lies blood, ich as <u>central</u>	ized_
 A h A tr A la comp tran inclu 	supplies bloo ospital-based bl (may be only primarily to y cansfusion serv collect blood cal or regional bonents, and cro sfusion service) des routine tran	d and components ood bank and tra autologous or dire our own institution ice that provides b from donors? blood center that ss matched blood ? In this category, sfusion service wo	to other institution: Insfusion service the ected) and provides m? lood and componen collects blood from products to particip the service is not li	s? at collects blood blood and compo ts for transfusion donors and supp ating facilities (su mited to reference	from donors nents for tran , but does not lies blood, ich as <u>central</u> e laboratory w	<u>ized</u> ork, bi

A3. Does your institution serve as a transfusion service for other institutions?

Yes [If you are reporting for institutions served, be sure to include their information in A4.] □ No

A4. List the official name, city, state, and zip code of <u>each and every</u> institution for which data are reported on this questionnaire.

Include institutions for which you serve as a transfusion service. If you are reporting for more than one institution and will not complete a separate survey for each, report each institution's percent of your total reported transfusion activity.

Primary Reporting Institution Name				
Street Address	City	State	Zip	Percent of total reported transfusions
a. Institution Name				
Street Address	City	State	Zip	Percent of total reported transfusions
b. Institution Name				
Street Address				
c. Institution Name				
Street Address				
d. Institution Nam				1
Street Address	City	State	Zip	Percent of total reported transfusions
e. Institution Name				I
	1 <u></u>			-
Street Address	City	State	Zip	Percent of total reported transfusions
				Total: 100 %

PLEASE PROCEED TO SECTION B

Section B. Blood Collection, Processing, and Testing

This section includes questions about blood donors, blood collection and testing. All institutions should answer question B1.

B1. Does your institution collect blood from donors? [If you collect autologous units only, check 'YES' and complete this section.] - Complete this section: Go to B2

 \Box YES

- Proceed to Section C \square NO

B2. How many collection procedures (and for automated collections, how many products?) were successfully completed by your institution in each of the following categories in 2011? [Do not count low-volume or incomplete procedures. For collections that result in multiple component types, list the components under the primary intended collection and report the numbers of each component collected.]

A. Manual Whole Blood Collections	Number of C	ollection Procedures	
1. Allogeneic (Non-directed donations)			
2. <u>Autologous</u>			
3. <u>Directed</u>			
B. Automated Collections	Number of Collection Procedures	Number of Units	
1. Apheresis			
a. <i>A</i> b. <i>A</i>			
с. I			
d. C			
e. C 2. Apheresis			
a. S			
b. I plai			
c. C			
d. C			

Automated Collections (Continued)	Number of Procedures	Number of Products
3. Plasmapheresis		
a. <u>FFP</u>	[Count double units resulting from double	
b. 24-hour plasma (PF24)	collections as two units.]	
c. Jumbo FFP (>400 mL)		

B3. In 2011, how many people presented to donate?

people

Reason for <u>deferral</u>	Number of people deferred
w hemoglobin	
rescription drug use	
)ther medical reasons	
ligh-risk	
figh-risk	
Fravel	

	Total defe	
B5.	From how ma products in 2	
-	1. <u>First-time a</u> 2. Repeat allos	
9	donations fron	
-	 <u>Directed</u> do Autologous 	
Ľ	•. <u>radologous</u>	

Tattoo/pie

Other, spe

B6. How many WB/RBC units were collected by your institution at mobile blood drive sites?

collections?

units Of the total collected on mobile drives, how many of these WB/RBC units came from automated

units

In 2011, how many allogeneic WB/RBC units/donations were successfully collected from **B7.** the following: [NOTE: categories may overlap.]

Category	Number of Donations	
16-18 year-old donors		
19-24 year-old donors		
< 65 year-old donors		
All minority donors (including African America, Asian, and/or Hispanic combined)		
Repeat allogeneic donors		

How many severe donor-related adverse events did you have in 2011? **B8.**

Type of Collection	Number of Events
From manual whole blood collections	
From automated collections	

Blood Processing/Distribution/Outdates

B9. How many Whole Blood and Red Blood Cell units were <u>processed</u>, <u>distributed</u>, and <u>outdated</u> by your institution in 2011?

	Blood or Blood Product	Units <u>Processed</u>	Units <u>Released</u> for Initial <u>Distribution</u> *#	Total Units <u>Distributed</u> *#	Total Units <u>Outdated</u> +	
	WB for distribution as Whole Blood					
	ALL RBCs*					
	Group O Positi					
	Group O Nega					
#U +Iı	ount double units r nits returned and r rclude only those u ell as any other ins					

B10.	How many <u>p</u>	<u>lasma</u> units were produce	d from whole blood by your	institution in 2011?
		ozen within 24 hours yoprecipitate reduced	units units units units units	
B11.	·	oaring apheresis platelets →↓	using Intersol? sis platelet units were prepa	red using Intersol in
				units

B12. How many plasma units (whole blood derived and plasmapheresis combined) were distributed and/or outdated in 2011?

	Blood Component	Total Units Distributed*#	Total Units Outdated+
A.	Fresh Frozen Plasma~		
В.	Plasma frozen within 24 hours~		
C.	Plasma cryoprecipitate Reduced~		
D.	Liquid plasma~		
E.	Group AB Plasma**		
F.	Plasma for further manufacture		
*C4 **1 #U +1	clude all blood groups (e.g. AB). bunt double units resulting from apheresis collect nclude all types of AB plasma in Group AB Plasm nits returned and released for distribution multi nclude only those units that were outdated <u>while</u> rell as any other institutions for which you serve a	na total (i.e. FFP+PF24+cryo red ple times should be counted only <u>on your shelf</u> . Include outdates at	uced AB plasma) once.

B13. How many of the following components were <u>produced</u> by your institution in 2011? [Do not include units from autologous collections or therapeutic phlebotomies.]

Component Category	Number of Units
A. Whole-blood derived platelets	
B. Pooled WBD platelets	
C. Apheresis platelets from single collections	
D. Apheresis platelets from double collections	
E. Apheresis platelets from triple collections	
F. Cryoprecipitate	
G. Pooled cryoprecipitate	
H. Granulocytes	

B14. For each of the following categories, how many units did your institution collect, prepare, or modify to achieve <u>pre-storage leukoreduction</u> in 2011?

Component Category	Number of Units]
1. Whole blood		•
2. Whole-blood		
3. Apheresis pla		
4. Other compc individually file		
individually file		
* Units for pedia		

Blood Component	Total Units Distributed*#	Total Units Outdated+
1. Whole blood-derived platelets		
2. Apheresis platelets (Don't include units from autologous or therapeutic collections).		
3. Cryoprecipitate		
4. Granulocytes		
unt double units resulting from apheresis c		•
ts returned and released for distribution m lude only those units that were outdated <u>w</u> II as any other institutions for which you se	<u>hile on your shelf</u> . Include o	outdates at your institution as

the total number of allogenei for abnormal disease marker	·	
the total number of allogenei for all other reasons (NOT ir	c units (non-directed ar	nd directed combined)
		,

Section C. Blood Transfusion

This section should be completed by transfusion services and includes questions about transfusion, utilization, availability, and hemovigilance. All institutions should complete **question C1.** Any institution transfusing blood or serving as a centralized transfusion service for others should complete this entire section.

C1. Is your institution directly involved in the transfusion of blood to patients <u>or</u> does it serve as a transfusion service for another institution that transfuses blood?

C2. In 2011, how many units of allogeneic whole blood and red cells (WB/RBCs) did your institution transfuse either directly or as a transfusion service for another institution? [Exclude directed units transfused to the intended patients.]

	Total Number of Units Transfused	Total Number of <u>Recipients</u>]
A. Allogeneic Whole Blood			
B. Allogeneic Red Blood Cells*			
C. Group O Positive Red Blood Cells			
D. Group O Negative Red Blood Cells]
*All types, including Group O.			

C3. Indic					
A. Directed ¹	1	I	I	I	
B. Autologous WR/RRC units					

C4. Indicate below the total number of units transfused to the pediatric population (as defined by your institution).

	Number of Adult Equivalent Units Used in Whole or in Part for Pediatric Patients*	Total Number of Pediatric <u>Recipients</u>
A. WB/RBCs		
B. Plasma		
C. Platelets		

*This should be a patients.

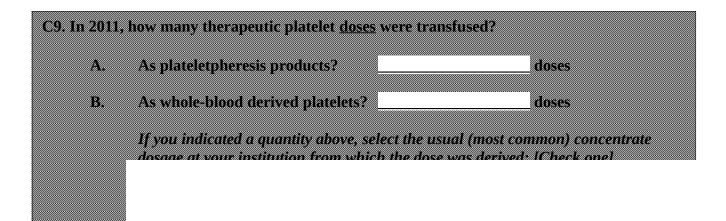
C5. In 2011

(1) transitise, either directly of as a transitision service for another institution of outpatient service, and (2) how many units were outdated <u>while on your shelf</u>? Include units transfused to pediatric patients in total.

	Component	Total Number of Units Transfused	Total Number of Units Outdated
А.	Whole-blood derived platelets [Individual concentrates and pools expressed as individual concentrate equivalents]		
В.	Apheresis platelet units—full dose ($\geq 3 \times 10^{11}$)		
C.	Directed platelets to intended recipients		
D.	Fresh frozen plasma (FFP)*		
E.	FFP, pediatric size (≤100 mL)*		
F.	Plasma, frozen within 24 hours (PF24)*		
G.	Jumbo FFP (>400 mL)*		
H.	Liquid plasma*		
I.	Directed plasma to intended recipients*		
J. Т	hawed plasma*		
K.	Plasma cryoprecipitate reduced*		
L.	Group AB Plasma		
М.	Cryoprecipitate (all uses) [Include individual units and pools expressed as unit equivalents]		
N.	Granulocyte Units		
*All ty	pes, including Group AB. 11		

C6. Indicate below how many irradiated, leuko-reduced, and leuko-filtered units of each of the following components your institution transfused, either directly or as a transfusion service for another institution in 2011 (for pediatrics, use the number of adult equivalent units used in whole or part). Components that are both irradiated and leuko-reduced should be included in the count for both columns.

	. for bour continues	1			7
		Components Irradiated	Components Leuko-reduced Before or After Storage (not at the Bedside)	Components Leuko-filtered at the Bedside	
a.	WB/RBCs				
b.	Apheres donor pl				
	Whole-b platelets				
d.	Other bl units, inc				
	units				
	TOTAL ((If the ni				
	compone				
	question: please en				
	number (
C7.	A. Dot leukor				
	B. If th				
	transf				
C8.	What				
	opriate t				
	Com				
a.	Red Blo				
a. b.	Whole-t				
0.	platelets				
с.	Apheres				



	210. 011	How ? [This :
<u> </u>	011	: [11115]
		Depart
	A.	Surgery
	В.	Orthop
	C.	Cardiac
	D.	All sur
	Е.	Transpl
	F.	Trauma
	G.	Hemato
	Н.	Obstetr
	I.	Pediatri
	J.	Nephro
	K.	ICU (in
	т	Medica
	L.	Genera
	M.	Other, s
	*]	ncludin

C11.	Does your institution routinely order plasma transfusions to non-pediatric patients based on (choose one):
	 Weight based dosing (eg 20ml/kg) A standard number of units regardless of patient weight (e.g. 4 or 6 units) Dosage varies based on perceived level of coagulation factor deficiency or degree of bleeding. Number of units ordered is not consistent with any of the above
C12.	How many grams of IVIG (not RhIG) were purchased by your institution in 2011?
C13.	Wha
C14. a. Plas phlebo b. Plas	ima, f
	otomy (P9059)
d. Wh	cells, leukoreduced (P9016) \$ ole-blood-derived platelets, each unit, not \$ educed, not irradiated (P9019) \$
e. Apl	eresis platelets, leukoreduced (P9035) \$
f. Cry	oprecipitate, each unit (P9012) \$
C15.	Were any elective surgeries postponed due to blood inventory shortages in 2011?

ULJ. WEICAHY CICCUY	e suigeries posiponeu u	ис ю внова шустая у зно	11dgc5 m 2011.
Yes			
□ No			
	have many days wars also	the summer of portaons 12	dave
ij yes, on	how many days were elect	ive surgeries posiponeur_	days
How man	y elective surgeries were p	postponed in 2011?	
[[Do not count any patient's .	surgery more than once.]	
			surgeries
			0

C16. On how many days in 2011 was	s your order incomplete:	
A. For red cells?		days
B. For plasma?		days
C. For apheresis platelets?		days
D. For whole-blood derived platelets?		days

C17. On how many days in 2011 were you unable to meet other non-surgical blood requests (e.g. red cells, platelets)?

days

C18.	Does your institution have an established program to treat patients who refuse any or all blood components for religious, cultural, or personal reasons? Yes No
C19a.	Does your healthcare facility have a Transfusion Safety Officer (TSO)? Yes No C19b. If C19a is Yes, is the TSO Part Time Full Time C19c. If C19a is Yes, is the TSO a Hospital employee
C20.	At your facility, how many units of group O red cells are on your shelf on an average weekday?
C21.	At your facility, what is the maximum number of units of group O positive and group O negative red cells in uncrossmatched inventory considered to be 'critically low'?
C22.	How many WB/RBC crossmatch procedures were performed at your facility in 2011 by any method?
C23.	How many samples (patient specimens submitted for testing) did your facility receive at the blood bank in 2011?
C24.	Does your facility have an electronic system for tracking transfusion related adverse events (e.g. unplanned, unexpected, and undesired occurrences)? Yes No

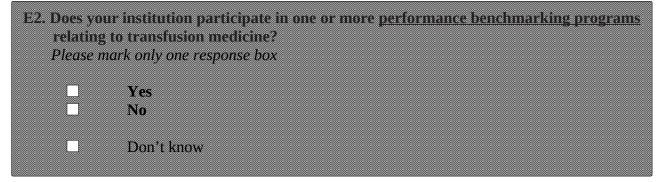
	ervice in 2011? (count only the number of reactions that requ	ired any diagnostic or
ti	herapeutic intervention.)	reactions
C	Complete the table below to indicate how many of each type	of reaction occurred:
Even	t Description (categories may overlap)	Number of Reactions
a.	Life-threatening, requiring major medical intervention following the transfusion (e.g. vasopressors, blood pressure support, intubation, or transfer to the intensive care unit)	
b.	Transfusion-related acute lung injury (TRALI)	
c.	Transfusion-associated circulatory overload (TACO)	
d.	Acute hemolytic transfusion reaction (ABO)	
e.	Acute hemolytic transfusion reaction (other antibodies)	
f.	Delayed hemolytic transfusion reaction	
g.	Delayed serologic transfusion reaction	
h.	Febrile, nonhemolytic transfusion reaction	
i.	H	
•	Po	
K.	Th	
	Tr	
	Po	

Section D: Bacterial Testing in Platelets

Method	Number Tested	Number of Confirmed	Number of False Positives	Number with Indeterminate
		Positives		Results
A. Culture-based methods				
B. Rapid immunoassay				
(e.g. VERAX)				
C. Other Methods, specify:				
			·	
Indicate wha				
[Check all ag				
a Aphorosis pla				
a. Apheresis pla				
b. Whole-blood-				_
b. Whole-blood- derived]		
b. Whole-blood-)		
b. Whole-blood- derived platelets, singly c. Whole-blood- derived				
b. Whole-blood- derived platelets, singly c. Whole-blood-				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				
b. Whole-blood- derived platelets, singly c. Whole-blood- derived platelets, pooled				

Section E. Patient Blood Management

E1. Does your institution have a patient b Please mark only one response box	lood mai	nagement	(PBM) program?	
YesPlease continue to qNo \rightarrow Please continue to q				
Don't know				
♥ E1a. Below is a list of people who may be program. Please indicate whether or in patient blood management program a	not each	of the fol	lowing people coordinate the	nt
	Yes	No	Don't Know	
Medical director				
Program coordinator: Nurse				
Program coordinator: Non-Nursing				
Other. (If yes,) please specify:				

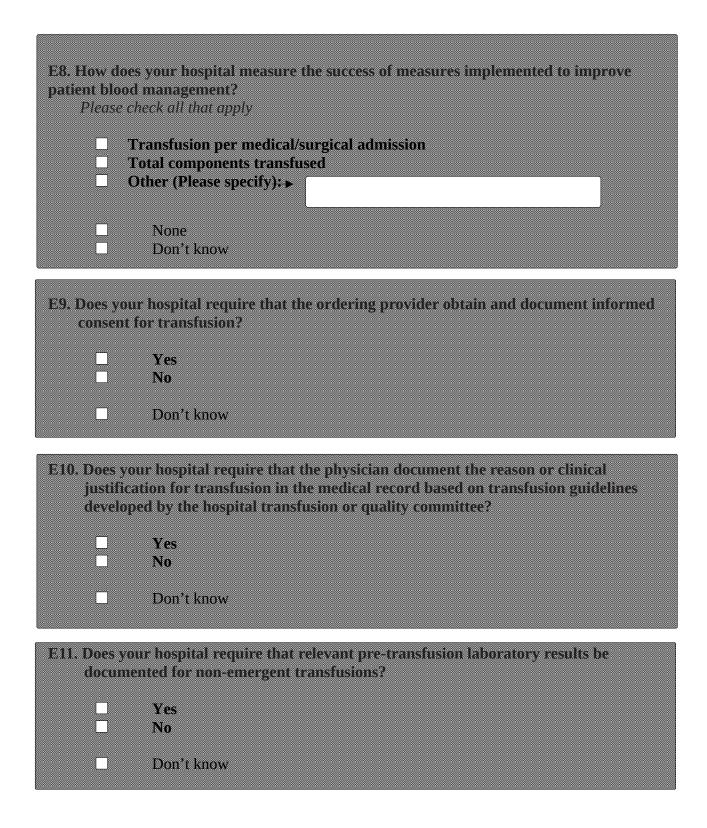


List bots your ruemey pro	ovide formal trans	stusion	training	2	
	ease continue to questio		E3a		
Don't kno	w				
E3a. Below is a list of peo facility. Please indica transfusion training	ite whether or not	each o			
		Yes	Nø	Don't Know	
Physicians and mid new to the medical	-				
Nurses					
Internal Medicine	Residents				
Family Practice Re	sidents				
Surgical Residents					
Anesthesia Residen	its				
Ob-Gyn Residents	i				
Pediatrics Residen	its				
Hematology/Oncolo	ogy Residents				
Pathology Resident	5				
Other personnel. (I specify:	lf yes,) please				

E4. Does your facility provide formal PB	M traini	ing?		
		E4a		
Don't know				
E4a. Below is a list of people who may be facility. Please indicate whether or n PBM training at your institution:				
	Yes	No	Don't Know	
Physicians and mid-level providers new to the medical staff				
Nurses				
Internal Medicine Residents				
Family Practice Residents				
Surgical Residents				
Anesthesia Residents				
Ob-Gyn Residents				
Pediatrics Specialists				
Hematology/Oncology Residents				
Pathology Residents				
Other personnel. (If yes,) please specify:				

E5. Does the i	nstitution use any transfusion guidelines?
-	Yes \rightarrow Please continue to question E5a No \rightarrow Please skip to question E6
	Don't know
following	any institutions have institution specific guidelines, please choose one of the g national transfusion guidelines if they are the predominant basis for your on's own guidelines. If yours are not based predominantly on one of these, ose other and describe.
Please cl	neck all that apply CAP
	AABB ASA
	ARC Other (Please specify)
	Don't know
	its facing elective surgical procedures associated with a high likelihood of s evaluated to assess for factors predictive of pre- and post- operative anemia?
	Yes \rightarrow Please continue to question E6a No \rightarrow Please skip to question E7
	Don't know
E6a. Is there a	a program to manage the patient's anemia before surgery?
	Yes No
	Don't know

	the following interventions has your facility put in place to reduce the d of allogeneic transfusions?
Please ch	eck all that apply
Preopera	tive Clinical assessment for anemia
	Clinical assessment for bleeding risk Laboratory assessment for anemia Enteral iron supplementation Parenteral iron supplementation Erythropoietin Preoperative autologous blood donation
	None Don't know
Intra-opei	rative
	Acute normo-volemic hemodilution Intra-operative blood recovery Use of topical/systemic hemostatic agents
	None Don't know
Postopera	tive
	Restrictive use of transfusion Restrictive use of phlebotomy Use of topical/systemic hemostatic agents Judicious use of anticoagulants and platelet inhibitors Post-operative cell collection and re-administration Post-operative parenteral iron replacement Erythropoiesis-Stimulating Agents (ESA)
	None Don't know



EI	2. 1	What	perce	ntage	e of p	atie	nts, u	nde	rgoii	ig a h	igh	blood	llos	s sui	rgical	proce	dur	e as	
		define																	
	5	surgic	al pro	ocedu	re?														
	ſ		07																
			%																
			Don't	knov	N														

E13. What is the average pre-transfusion laboratory result at following blood products?	your hospital f	or each the
Please indicate for each of the following blood products:	Enter the average	Don't Know
a. For red cells, average pre-transfusion hemoglobin:		
b. For platelets, average pre-transfusion platelet count:		
c. For plasma, average pre-transfusion PT/INR: <u>or</u> PTT:		
d. For cryoprecipitate, average pre-transfusic	n:	
E14. What is the standard red cell order at your hospital for no	n-bleeding pat	ients?
Please mark only one response box		
 1 unit 2 units Other (Please specify): units 		
Don't know		

E15 Daes your	• hosnital bave	Computerized	Physician Order	Entry (CPOE)?	
EID. Docs jour	nospital mite	computermed	i nyökelüli oruci	Lind y (Cr OL).	
		Yes	No		
		165	110		
If yes, does you	ir CPOE inclu	ide transfusion g	guidelines or an a	ilgorithm to assis	t with proper
			guidelines or an a	lgorithm to assis	t with proper
If yes, does you transfusion or o			guidelines or an a No	lgorithm to assis	t with proper
			guidelines or an a No	llgorithm to assis	t with proper
	lering?	Yes	No	llgorithm to assis	t with proper
	lering?	Yes	guidelines or an a No D TO SECTION F	llgorithm to assis	t with proper

Section F: Human Tissue

This section contains questions about the use of human tissue for transplantation. Please give this section to the appropriate personnel to complete!

- F1. Does your institution maintain an inventory of, or use human tissue for transplantation? Refer to the definition of tissue in the Glossary – this differs from the definition of "tissue" used by The Joint Commission in their Standards.
 Maintain and use human tissue
 Use but do not maintain human tissue
 - □ Neither PROCEED TO SECTION G

F2. In 2011, what was the total number of human tissue implants or grafts that your institution: [Include acellular dermal matrix products (e.g. AlloDerm®, Repliform®) and consult with specialty departments, if necessary (e.g. Orthopedics, Dermatology, Ophthalmology).]

overing?

F3. D

 F4.
 Which one of the following departments has the PRIMARY responsibility for Human Tissue (i.e. ordering, receiving, storage, tracking, and/or issuance)? [Check only one]

 Operating Room
 Surgery Department
 Blood bank and transfusion service
 Laboratory Medicine/Pathology
 Hospital in-house Tissue Bank
 Infection Control
 Supply chain/materials management

F5. Which depart	tment(s) have some/all responsibility for tissue oversight? [Check all that apply.]
	 Operating Room Surgery Department
	 Blood bank and transfusion service Laboratory Medicine/Pathology
	 Hospital in-house Tissue Bank Infection Control
	 Supply chain/materials management Other Department None

F6. What role does your blood bank/transfusion service have in the use of human tissue in the following areas? [Check all that apply.]

F7. Tissue Related Adverse Reactions in 2011	Number of Reactions	Number confirmed by authorities (FDA/CDC) as caused by a human tissue implant/graft	Not Available
A. How many adverse reactions have you reported to FDA or to a source tissue establishment that were suspected of being caused by a human tissue implant/graft?			
B. How many reported adverse reactions were viral transmissions?			
C. How many reported adverse reactions were bacterial infections?			
D. How many reported adverse reactions were fungal infections?			
E. How many adverse reactions were related to graft failure?			
F. How many adverse reactions had unknown causes?			

Section G: Cellular Therapy Products Please give this section to the appropriate cellular therapy collection

or laboratory personnel to o	complete!
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G1. Does your institution collect, process, store, issue (HPCs) or other cellular therapy (CT) products?	e, <u>or</u> infuse hematopoietic progenitor cells
G2. Choose which of the following describes your pro apply): Collect HPCs Process HPCs Store HPCs Infuse/transplant HPCs Collect Cord Blood Process Cord Blood Store Cord Blood Other, please describe	gram. Does your program (check all that
G3. If your program collects cord blood, is your cord A nurse midwife/obstetrici Dedicated cord blood bank Other	an
G4. Does your facility hold a cord blood product licer Yes BLA submitted and in progress Preparing BLA Not eligible Not seeking licensure at this time Don't know	ISE?

G5. Do you collect products for third party vendors (including cord blood banks, NMDP, and other suppliers of CT products)? [Please count each day of collection from a donor as a separate product]

No
 Yes (If yes, how many did you collect in 2011? Check appropriate boxes below.)

	HPC-A Hematopoietic Progenitor Cells- Apheresis	HPC-M Hematopoietic Progenitor Cells- Marrow	HPC-Hematopoietic Progenitor Cells– Cord	Other
< 10 per year				
10-100 per year				
101-500 per year				
>500 per year				

G6. How many of each of the following product types were <u>collected or processed</u> at your facility in **2011?** [For purposes of the survey, autologous cord blood refers to familial use in 1st or 2nd degree relatives. Please count each day of collection from a donor as a separate product]

		Colle	cted	Processed
		Autologous	Allogeneic	See Glossary
a.	Peripheral blood progenitor cells (HPC-A)			
b.	Marrow collections (HPC-M)			
с.	Corthing and the co			
d.	Doi			
	unn peri			
e.	Imr			
	den exc			
f	Her			
	exp			
g.	Noi			
	[me mu			
h.	Oth			
	S			

		Autologou	s Infusions	Allogenei	c Infusions
		Total Number of Episodes	Total Number of Patients	Total Number of Episodes	Total Number of Patients
•	Peripheral blood progenitor cell collections (HPC-A)				
	Marrow collections (HPC-M)				
	Cord blood collections (HPC-C)				
	Donor lymphocyte infusion (DLI or unmanipulated non-mobilized peripheral blood mononuclear cells)				
	Immunotherapies (natural killer cells, dendritic cells, T cells, and others, but excluding DLI)				
	Hematopoietic stem/progenitor cells, expanded				
	Nonhematopoietic stem cells [mesenchymal stem cells (or multipotent stromal cells)				
	Other products, Specify				

G8. If your facility i reconstitutions in 20	nfuses CT products, were any)11?	of them used	l for other t	han hematop	oietic	
🗆 Yes	Please check all that apply:					
	Cardiac applications					
	Autoimmune disease					
□ No	☐ Other, please specify					

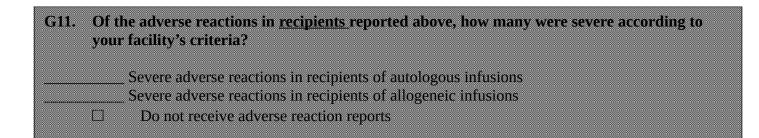
G9. How many severe HPC donor-related adverse events were reported to you in 2011?

*see glossary for definition of the term 'severe'

- Severe autologous donor adverse events
- Severe allogeneic donor adverse events
- Do not collect autologous HPCs
 - Do not collect allogeneic HPCs

G10. How many total (including non-severe reactions) reports of *recipient* adverse events were there in 2011?

Adverse reactions in recipients of autologous infusions
Do not infuse autologous HPCs
Adverse reactions in recipients of allogeneic infusions
Do not infuse allogeneic HPCs
Do not receive adverse reaction reports



Thank you very much for your help!

Please complete the online questionnaire at <u>www.bloodsurvey.org</u> or return the paper questionnaire in the enclosed postage-paid envelope.

National Blood Collection and Utilization Survey c/o Images to Data

Survey Glossary

Autologous: Self-directed donations. Autologous cord blood refers to familial use in 1st or 2nd degree relatives.

Centralized transfusion service: A hospital or blood center that collects blood from donors and supplies blood, components, medical services and/or cross matched blood products to multiple transfusing facilities.

Collected: Successful whole blood or apheresis collections placed into production (not QNS, or other removals).

Community: In this survey refers to those allogeneic donations not directed to a specific patient.

Deferrals: The number of donors deferred for specific reasons:

A) Donors deferred for low hemoglobin do not meet the current FDA blood hemoglobin level requirements for blood donation.

B) Deferrals for other medical reasons may include the use of medications on the medication deferral list, growth hormone from human pituitary glands, insulin from cows (bovine, or beef, insulin), Hepatitis B Immune Globulin (HBIG), unlicensed vaccines, or presenting with physical conditions or symptoms that do not qualify a person to be a blood donor.

C) High-risk behavior deferrals include deferrals intended to reduce the risk of transmission of infectious diseases including HIV and hepatitis viruses. Examples of questions intended to identify these risks are sexual contact and needle use questions.

D) Travel deferrals are deferrals for travel to a specific region of the world.

Directed: Allogeneic donations intended for a specific patient.

Donation: The collection of a unit of blood or blood component from a volunteer donor.

Dose/Dosage: a quantity administered at one time, such as a specified volume of platelet concentrates.

Episode or Infusion Episode: infusion of one product type (eg, peripheral blood stem cells) to a patient/recipient. The infusion episode may involve infusion of one or more containers of that product type.

First-time allogeneic donor: A donor who is donating for the first time at your center.

Issuing: Release of a blood or tissue product within a medical facility or institution.

Maintain: Functions to acquire, store, issue, or track human tissue for transplantation.

Modify: used in this survey to refer to procedures applied by a blood center, hospital blood bank, or transfusion service that may affect the quality or quantity of the final product (e.g., irradiation, leukofiltration, or production of aliquots of lesser volume).

Outdated: Units that expire on your shelf.

Patient Blood Management: An evidence-based, multidisciplinary approach to optimizing the care of patients who might need transfusion. PBM encompasses all aspects of patient evaluation and clinical management surrounding the transfusion decision-making process, including the application of appropriate indications, as well as minimization of blood loss and optimization of patient red cell mass.

Performance benchmarking programs: A program designed to compare the performance of an individual hospital on one or more metrics with others on a national, regional, or hospital system-wide basis.

Plasma:

- **A) Plasma, frozen within 24 hours of phlebotomy:** plasma separated from the blood of an individual donor and placed at–18 C or colder within 24 hours of collection from the donor. Sometimes also referred to as PF24.
- B) Plasma, Jumbo: for the purposes of this survey, FFP having a volume greater than 400 mL.
- C) FFP: fresh frozen plasma. Plasma frozen within 8 hours of collection.

Present to Donate: A person presents to donate when he or she initiates the donation process through appearance and registration at a donation site.

Processed: Subjected, after collection, to any manipulation or storage procedure. One cellular therapy product can be divided and processed in more than one way and would be counted as one collection but as two or more products processed.

Produced: Blood component manufactured from a unit of whole blood.

Recipient: A unique individual patient receiving a transfusion one or more times in a calendar year.

Released for Distribution: units that have fulfilled all processing requirements and have been made available for transfer to customers.

Repeat allogeneic donor: A donor who has previously donated a blood component for community use, using your facility' definition.

Severe Donor-Related Adverse Events: adverse events occurring in donors attributed to the donation process that include, for example, major allergic reaction, arterial puncture, loss of consciousness of a minute or more, loss of consciousness with injury, nerve irritation, etc.

Storing: The maintenance of human cells and tissue for future use.

Tissue: Articles containing or consisting of human cells or tissues that are intended for implantation, transplantation, infusion, or transfer to a human recipient, to include musculoskeletal tissue, skin, ocular tissue, human heart valves, dura mater, reproductive tissues, tissue/device, and other combination therapies. Not included: vascularized human organs, minimally manipulated marrow, xenografts, blood products, hematopoietic stem/progenitor cells, other cellular therapies, human milk, collagen, cell factors, in-vitro diagnostic products, and blood vessels ("conduits") recovered with organs for use in organ transplantation.

Transfusion Related Adverse Reactions: <u>www.cdc.gov/nhsn/PDFs/HemovigModuleProtocol_current.pdf</u>

Transfusion Service: a facility that performs, or is responsible for the performance of, the storage, selection, and issuance of blood and blood components to intended recipients.