# Blood Components Database for the Recipient Epidemiology and Donor Evaluation Study-III (REDS-III)

#### **Documentation for Public Use Data files**

The objectives of the Recipient Epidemiology and Donor Evaluation Study-III (REDS-III) program are to ensure safe and effective blood banking and transfusion medicine practices through a comprehensive, multifaceted strategy involving basic, translational, and clinical research to improve the benefits of transfusion while reducing its risks. REDS-III was funded by the National Heart, Lung and Blood Institute of NIH.

Participants in the domestic component of the REDS-III program included:

- Four blood centers and 12 associated hospitals
  - Blood Center of Wisconsin
    - > Froedtert Hospital, Milwaukee, WI
    - Marshfield Clinic
    - Saint Joseph's Ministry Hospital, Milwaukee, WI
    - > Aurora Saint Luke's/Aurora Sinai Hospitals, Milwaukee, WI
  - Blood Centers of the Pacific
    - San Francisco General Hospital, San Francisco, CA
    - > SF Veterans Administration Medical Center, San Francisco, CA
  - Institute for Transfusion Medicine
    - > Presbyterian Hospital, Pittsburg, PA
    - Shadyside Hospital, Pittsburg, PA
    - > St. Margaret's Hospital, Pittsburg, PA
  - American Red Cross Blood Services New England Region
    - > Yale-New Haven Hospital, New Haven, CN
    - Bridgeport Hospital, Bridgeport, CN
- A data coordinating center (DCC)
  - o RTI International; and
- A central laboratory
  - Blood Systems Research Institute in San Francisco

To meet the objectives of REDS-III data were collected to produce three sets of core files. The donor/donation files contain information on attempted and successful donations of whole blood and blood products, as well as deferrals and the reasons for them. The component files contain information on processing of donated blood and blood products, such as separation of whole blood into red blood cells, platelets and plasma, as well as treatments, such as irradiation or leukocyte reduction. The transfusion recipient files contain information on both inpatient and outpatient transfusion recipients, such as type of product transfused, number of units transfused each day, and adverse outcomes for transfused patients. The three sets of core files were converted into three separate sets of public use files. One goal in REDS-III was to be able to link transfusion recipients to blood donations and blood processing records to permit studies of the effects of donor characteristics and component processing on transfusion outcomes. The ability to link the files has been preserved in the public use files. Users may also be interested in investigations that require only one or two of the core databases. The files are structured to support such analyses as well. The remainder of this document is a discussion of the blood components files data and associated public use files.

The data collection process.

Shortly after REDS-III began, a working group of REDS-III investigators, DCC staff and representatives from NHLBI was assembled to develop the specifications for the data to be collected. Plans for the components database called for collecting data in six tables. The data in four tables were obtained from the four blood centers while data in the remaining two tables were obtained from transfusion services at the participating hospitals. The six tables are:

- tbl\_Comp\_Components Blood Center components data
- tbl\_Comp\_Donations\_BC Blood Center donation data
- tbl\_Comp\_ComponentsPooled\_BC Contains information for linking pooled components to donations
- tbl\_Comp\_TransfusionService Hospital Transfusion Services (manufactured products) data
- tbl\_Comp\_ProductsPooled\_TS Hospital Transfusion Services pooled products
- tbl\_Comp\_Imports Components imported from other entities into blood centers

Specifications for the tables are provided in the appendix.

The specifications for the data to be extracted from blood center records were sent to programmers at the hubs and hospitals. The programmers then developed extraction programs to pull the required data from the data management systems at the hubs. Data from the first quarter of 2013 were extracted for submission to the DCC. The data were reviewed at the hospitals before submission as an initial check against the specifications for data extraction provided by the DCC. The files were transmitted to the DCC through a secure portal that the DCC provided for this purpose. Further validation took place at the DCC, such as checks for duplicate records, range checks and value checks to make sure the values matched those allowed in the data dictionary. A report of the results of the checks was produced and sent to each hub or hospital for review. The programmers made any necessary changes to the extraction programs and sent revised data tables to the DCC for inspection and validation. Once this process was complete, data from the second quarter of 2013 were extracted and submitted to the DCC. The data were compared against data from the first quarter to ensure consistent application of the extraction rules.

Subsequent data collection involved extracting data using the same extraction program; reviewing data at the hub; uploading the data through the secure portal; reviewing data at the DCC as described above, with queries back to the hub if needed; and loading the approved data into the donor database. The process of comparing data from a given quarter against data from previous quarters to ensure consistency of extraction continued throughout the data collection period. The final datasets included records from July 2012 through December 2016.

#### Changes to the data

The process of de-identifying the files involved replacing some variables and deleting others, as described below.

The component data files included several identifiers: donor ID, donation identification number (DIN), hub and/or hospital ID and the product key. Donor ID, DIN, hub ID and hospital ID were replaced with random numbers. The replacement variables are DonorID\_Random, DIN Random, CenterID Random, and HospitalCode Random, respectively.

To preserve the ability to link records and cluster encounters within donor, all occurrences of a given value for one of the identifiers were replaced with the same random number. To preserve the ability to link component records to records in the donor/donation database, the random replacements for the donor ID, DIN and blood center in the donor files was also used to replace the corresponding values in the components files. In some cases, the DIN matched a DIN in the recipient files but not in the donor files. The DIN in the components files was replaced with the value that was used in the recipient files where this occurred.

The product key, found in five of the six tables, contained the DIN, the product code and, in some cases, the division code. The DIN and product code were separated into two fields. The product code is the code for type of component donated or produced from the donation. The division code identifies multiple products that have the same DIN. For example, if a whole blood donation is split into red blood cells, platelets and plasma, then the three components would have the same DIN but different product codes and division codes. The three parts of the product key were separated into three separate variables. There are numerous instances in which the DIN embedded in the product key does not match the DIN listed separately on the same record. For example, in the two tables of data from pooled products, the separate DIN is the DIN assigned to the donation that was included in a pool while the DIN embedded in the product key is the DIN assigned to the pooled product. Because of these mismatches, the DIN extracted from the product key was replaced in all five tables with a random number labeled DIN\_PK\_Random with PK included to reflect extraction from the product key.

The user should be aware that the blood center that supplied a product to the hospital may not be the point of origin of that product. Some of the blood centers involved in REDS-III imported some blood products from other domestic blood centers. The records for imported products are provided in tbl\_COMP\_imports. The users of the data on imported blood products need to be aware of two features of the data. First, the donor/donation database does not include records for the imported blood products. Thus, a user who wishes to use complete donation data should request both the donor/donation files and the imports table from the component files. Both should be requested, for example, for an analysis that involves linking donors to recipients to determine if donor characteristics affect transfusion outcome. Second, the imports tables does not include information on screening for HIV, hepatitis C or the other pathogens that are included in the screening information in the donor/donation data. All imported units screened negative for the pathogens listed in the donor/donation file before being shipped to REDS-III blood centers. They should be treated as such in data analysis.

In the original files, all <u>dates</u> were stored as three separate fields - month, day, and year. Date of birth was replaced with integer age at the time of contact in the public use files. Most dates were replaced with days since donation. These and other changes to dates are listed below. Variables of the form, DaysDonToABC contain days from blood product donation to event ABC, where ABC is leukoreduction date, irradiation date, pooling date or another event as indicated by the variable name.

- tbl\_Comp\_Components
  - StatusDateYr, StatusDateMo and StatusDateDa were replaced with DaysDonToStatus
  - ExpirationDateYr, ExpirationDateMo, ExpirationDateDa were replaced with DaysDonToExpiration

- CollectionDateDA was deleted but CollectionDateYR and CollectionDateMO were retained; this action matches changes made to the donation files.
- tbl\_Comp\_Donations\_BC
  - StartDonationDateDa was deleted but StartDonationDateMo and StartDonationDateYr were retained
  - EndDonationDateMo, EndDonationDateDa, and EndDonationDateYr will be deletedReceiptDateYr, ReceiptDateMo and ReceiptDateDa were replaced with DaysDonToReceipt
  - InitialProcessingTimeYr, InitialProcessingTimeMo and InitialProcessingTimeDa were replaced with DaysDonToInitialProcessing
- tbl\_Comp\_ComponentsPooled\_BC
  - StatusDateYr, StatusDateMo and StatusDateDa were replaced with DaysDonToStatus
- tbl\_Comp\_TransfusionService
  - ➤ ThawDateYR, ThawDateMO, ThawDateDA were replaced with DaysDonToThaw
  - LeukoreductionDateYR, LeukoreductionDateMO and LeukoreductionDateDA were replaced with DaysDonToLeukoreduction
  - ➤ IrradiationDateYR, IrradiationDateMO and IrradiationDateDA were replaced with DaysDonTolrradiation
  - PooledDateYR, PooledDateMO and PooledDateDA were replaced with DaysDonToPooled
  - RinsingSalineWashDateYR, RinsingSalineWashDateMO and RinsingSalineWashDateDA were replaced with DaysDonToRinsSalineWash
  - AliquotDateYR, AliquotDateMO and AliquotDateDA were replaced with DaysDonToAliquot
  - DeglycerolizationDateYR, DeglycerolizationDateMO and DeglycerolizationDateDA were replaced with DaysDonToDeglycerolization
  - ReconstitutionDateYR, ReconstitutionDateMO and ReconstitutionDateDA were replaced with DaysDonToReconstitution
  - VolumeReductionDateYR, VolumeReductionDateMO and VolumeReductionDateDA were replaced with DaysDonToVolumeReduction
  - ReleaseDateYR, ReleaseDateMO and ReleaseDateDA were replaced with DaysDonToRelease
- tbl\_Comp\_ProductsPooled\_TS
  - > no dates to replace
- tbl\_Comp\_Imports
  - DonDa will be deleted but DonMo and DonYr will be retained
  - > BirthMo, BirthDa and BirthYr will be converted to age at donation
  - StatusDateYr, StatusDateMo and StatusDateDa were replaced with DaysDonToStatus

Many of the observations in the component database included the time as well as month, day and year. Time of day was preserved in the public use files. This will allow the user to order repeated events that take place on the same day and to determine time between blood processing and transfusion.

Six public use files were produced after these changes were implemented:

- Reds III cc components.sas7bdat- Blood Center components data
- Reds\_III\_cc\_pooled\_components\_bc.sas7bdat Contains information for linking pooled components to donations
- Reds\_III\_cc\_donations.sas7bdat Blood Center donation data
- Reds\_III\_cc\_imported\_products.sas7bdat Components imported from other entities into blood centers
- Reds\_III\_cc\_pooled\_components\_ts.sas7bdat Hospital Transfusion Services pooled products
- Reds\_III\_cc\_transfusion\_service.sas7bdat Hospital Transfusion Services (manufactured products) data

#### Sorting and merging the files

DonorID\_Random should be used to cluster records from repeated donations by the same donor within each table. Records in one of the tables can be linked to records in another using DIN\_Random. tbl\_Comp\_Imports contains information from donated blood products that were brought into REDS-III blood centers from other blood centers. The other five tables contain information from donations made at the REDS-III blood centers. Therefore, records in tbl\_Comp\_Imports cannot be linked to records in the other five tables except for a small number of records of imports that were included in some of the other five files.

The components files and the donor/donation files both contain information from multiple donations by the same donors. Information such as time between contacts, where a contact may be a successful donation, an unsuccessful donation or a deferral, is preserved in the donor/donation files. Further information is provided in the documentation for the donor/donation files. Users may add this information to the components files by linking records from the donor/donation files to those in the component files using DIN\_Random as the linking variable.

Some of the files in the components database contain multiple records with the same value for DIN\_Random or DIN\_Random\_PK. The components file contains multiple records with the same value for DIN\_Random. For example, a donation of a unit of whole blood may be recorded as a single record in the donations file but as multiple records in the components file if the unit was split into red blood cells, plasma and platelets. For certain analyses, users may need to track the product codes as well as DIN\_random. The pooled products tables will contain multiple records with the same value for DIN\_PK\_random but separate values for DIN\_Random with each record containing data from one of the donations that went into the pool.

#### Problems with the data

While extensive effort was made to collect complete data, some data are missing from the files. This does not include data missing by design; i.e. data on forms not used on some subgroups of subjects, as described earlier.

Users should also be aware that some fields contain small proportions of anomalous values. Examples include hemoglobin levels that are outside the range expected for blood donors and age at donation that is either too young for the donor to be eligible to donate or too old to be

realistic. The problems are mainly the result of data entry errors at the participating hospitals or blood centers; i.e. the data were downloaded as is from the hospitals and blood center files. Users are strongly encouraged to run univariate statistics on all variable of interest to identify values that are likely erroneous before proceeding with data analysis.

#### **APPENDIX**

# Specifications for tbl\_Comp\_Components

	Valid						
Field Name	Values	Description	Data Type	Length	Format	Required	Notes
ProductKey		Combined DIN + ISBT/Codabar Product Code	Varchar	25		Y	
StatusDateYr		Status Date Year	Integer	4	уууу	Υ	Required field
StatusDateMo		Status Date Month	Integer	2	mm	Υ	Required field
StatusDateDa		Status Date Day	Integer	2	dd	Υ	Required field
StatusDateTime		Time of Status	Time	5	hh:mm	Y	Required field - Hour should use 24-hour clock (00:00 - 23:59)
CenterID		Blood Center ID	Integer	2		Υ	
	31	Blood Center of Wisconsin					
	32	Blood Center of the Pacific/University of California, San Francisco					
	35	Institute for Transfusion Medicine					
	36	American Red Cross Blood services, CT Region					
DIN		Donation Identification Number (DIN) /Blood Unit Identifier/Whole Blood Number/ Barcode/ Pool ID	Varchar	13		Y	
DonorID		Donor ID.	Varchar	10			Pooled components will not have a single Donor ID so this is no longer a part of the primary key. If the component is not a pooled product, then this is a required field. DonorID can be null is when the product is imported.

Field Name	Valid	Description.	Data Tura	L a sa suéla	<b>F</b> = = 4	Do musimo d	Notes
Field Name	Values	Description Description	Data Type	Length	Format	Required	Notes
CollectionDateYR		Date Year that the product is collected	Integer	4	уууу		
	2012-2020	product is collected	_				
	-6	Other Notation	_				
	-0	NOT REPORTED or	-				
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at	-			1	
	-9	Hospital or Hub					
CollectionDateMO		Date Month that the	Integer	2	mm		
		product is collected					May be important to
	1-12						May be important to determine the age of the component. In ISBT this field is called "Collection Date" and
	-6	Other Notation					
		NOT REPORTED or	1				
		UNKNOWN for					it is barcoded on each unit.
	-8	Participant					Date is recorded without
		NOT COLLECTED at					Time.
	-9	Hospital or Hub					
CollectionDateDA		Date Day that the	Integer	2	dd		
		product is collected	_				
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
	_	NOT COLLECTED at					
	-9	Hospital or Hub		_			
ISBTProductCode		ISBT Unit Identifier	Varchar	8			There is a possibility of a
		(Product Code)					longer length of the Product
							Code in the data from data
CodabarProductCode		Codabar Unit	Integer	5			sources.
Jouanair Touticloode		Identifier (Product	integer				
		Code)					
ProductType		Product Type	Varchar	5		Υ	
	PLAS	Plasma, -includes all					
		types of plasma. FFP,					
		FP24, liquid, etc.					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Notes
	RBC	Red Cells	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, J.			
	PLAT	Platelets					
	CRYO	Cryoprecipitate					
	GRAN	Granulocytes					
	WHOL	Whole Blood					
	OTHER	Other Product Type					
Volume		Volume of the component in mL	Decimal	10,4			The volume is required when the component is issued, however it should be "null" if it's not available. The DCC will monitor the occurrences of the null volumes by reporting them on the data processing QC report. It will be considered a "soft" QC check.
VolumeType		Type of volume measure	Varchar	3			
	ACT	Actual					
	DEF	Default					
Status		Status of product	Varchar	10		Υ	List is incomplete
	SHIPPED	Shipped					
	DISCARDED	Discarded					
DiscardCode		Code for reason the product was discarded as waste or disposed	Varchar	20			Actual code values from blood center systems.
DiscardReason		Reason the product was discarded as waste or disposed	Varchar	50			Actual reason text from blood center systems.
ShippedToType		The type of place this component was shipped to	Varchar	5			
	HOSP	Hospital					
	MANUF	Further Manufacturing					
	BCEXP	Blood Center (Export)					

Pield News	Valid	D	Data Tarra	1	F 4	Di.	Nada
Field Name	Values	Description	Data Type	Length	Format	Required	Notes
011 17 0 1	OTHER	Other	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
ShippedToCode		A code to identify the	Varchar	20			
		place this component was shipped to					
ExpirationDateYr		The expiration date	Integer	4	1000/		
ExpirationDate in		year of the	linteger	_	уууу		
		component					
	2012-2020		-				
	-6	Other Notation					
		NOT REPORTED or	-				
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
<b>-</b>	-9	Hospital or Hub					
ExpirationDateMo		The expiration date month of the	Integer	2	mm		
	4.40	component	-				
	1-12		-				
	-6	Other Notation	_				
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
	-0	NOT COLLECTED at	-				
	-9	Hospital or Hub					
ExpirationDateDa		The expiration date	Integer	2	dd		
		day of the component		_			
	1-31						
	-6	Other Notation	-				
		NOT REPORTED or	-				
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
ExpirationDateTime		The expiration time of	Time	5	hh:mm		Hour should use 24-hour
	00.00	the component	_			clock (00:00 - 23:59	clock (00:00 - 23:59)
	00:00 - 23:59						
		Other Notation	-				
	-6	Other Notation					J

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Notes
	-8	NOT REPORTED or UNKNOWN for Participant					
	-9	NOT COLLECTED at Hospital or Hub					
ImportFlag		Was the product imported from another blood center?	Varchar	1		Y	
	Υ	Yes					
	N	No					
PlateletCount		Platelet Count	Integer				
PlateletValueAct		Is the Platelet Count value "Actual" or "Default"	Varchar	3			
	ACT	The Platelet Count is the actual count in the component					
	DEF	The Platelet Count is the default/range count in the component					

# Specifications for tbl\_Comp\_Donations\_BC

	Valid						
Field Name	Values	Description	Data Type	Length	Format	Required	Comments/Questions
DIN		Donation Identification Number (DIN) /Blood Unit Identifier/Whole Blood Number/ Barcode/ Pool ID	Varchar	13		Υ	
CenterID		Blood Center ID	Integer	2		Υ	
	31	Blood Center of Wisconsin Blood Center of the Pacific/University of California, San Francisco					
	32	Institute for					
	35	Transfusion Medicine					
	36	American Red Cross Blood services, CT Region					
DonorlD		Donor ID.	Varchar	10		Υ	
StartOfDonationDateYr	2042 2020	Start Date Year of the donation collection/procedure	Integer	4	уууу		
	2012-2020 -6	Other Notation					
		NOT REPORTED or UNKNOWN for					
	-8	Participant					
	-9	NOT COLLECTED at Hospital or Hub					
StartOfDonationDateMo		Start Date Month of the donation collection/procedure	Integer	2	mm		
	1-12						
	-6	Other Notation					

Field Name	Valid	Description	Data Tura	l o o orth	Farmet.	Deguired	Commonto/Overtions
Field Name	Values	Description NOT REPORTED or	Data Type	Length	Format	Required	Comments/Questions
		UNKNOWN for					
	-8	Participant					
	-0	NOT COLLECTED at					
	-9	Hospital or Hub					
StartOfDonationDateDa		Start Date Day of the	Integer	2	dd		
		donation		_			
		collection/procedure					
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
StartOfDonationDateTime		Start Hour and	Time	5	hh:mm		
		Minute (hh:mm) of					
		the donation					Hour should use 24-hour
	00.00	collection/procedure					clock (00:00 - 23:59)
	00:00 -						
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for					
	-0	Participant NOT COLLECTED at					
	-9	Hospital or Hub					
EndOfDonationDateYr	<u> </u>	Start Date Month of	Integer	4	уууу		
		the donation	iiitogoi		3333		
		collection/procedure					
	2012-2020						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					

	Valid						
Field Name	Values	Description	Data Type	Length	Format	Required	Comments/Questions
EndOfDonationDateMo		End Date Month of	Integer	2	mm		
		the donation					
		collection/procedure					
	1-12						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
EndOfDonationDateDa	-9	Hospital or Hub	Intogor	2	dd		
EndOrDonationDateDa		End Date Day of the donation	Integer		aa		
		collection/procedure					
	1-31	- Conconon procedure					
	-6	Other Netation					
	-0	Other Notation  NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
EndOfDonationDateTime		End Hour and	Time	5	hh:mm		
		Minute (hh:mm) of					
		the donation					Hour should use 24-hour
		collection/procedure					clock (00:00 - 23:59)
	00:00 -						
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant NOT COLLECTED at					
	-9	Hospital or Hub					
AphMachineMake		Aphaeresis Machine	Varchar	100			This information can be
		Make	3.0				captured or inferred. To be
							provided by the HUBs within
							the extracted data if at all
							possible.

Field Name	Valid	Description	Deta Tuna	l a marth	Farmet.	Deguined	Commonto/Overtions
Field Name	Values	Description Aphaeresis Machine	Data Type Varchar	Length 100	Format	Required	Comments/Questions This information can be
AphMachineModel		Model	varchar	100			captured or inferred. To be
		Wiodei					provided by the HUBs within
							the extracted data if at all
							possible.
<b>AphMachineSoftwareVersion</b>		Aphaeresis Machine	Varchar	50			This information can be
		Software Version					captured or inferred. To be
							provided by the HUBs within
							the extracted data if at all
LeukoDuringCollection		Leukoreduction	Varchar	1			possible.
LeakobaringConection		Performed During	Vaicilai	•			
		Machine or Inline					
		Collection Flag					
	Υ	Yes					
	N or Null	No					
LeukoFilter		The inline filter	Varchar	100			
		make/model used					
		for leukoreduction					
	Valid						
Data Required	Values	Description	Data Type	Length	Format	Required	Comments/Questions
ReceiptDateYr		Date Year donation	Integer	4	уууу		
		was checked into					
	0040 0000	the blood center	<u> </u>				
	2012-2020	Office Nichola Cons	-				
	-6	Other Notation	1				
		NOT REPORTED or UNKNOWN for					
	-8	Participant					
	-0	NOT COLLECTED at	-				
	-9	Hospital or Hub					
ReceiptDateMo		Date Month	Integer	2	mm		
_		donation was					
		checked into the					
		blood center	]				
	1-12						
	-6	Other Notation					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments/Questions
i leiù Naille	Values	NOT REPORTED or	Data Type	Lengin	1 Office	Required	Comments/Questions
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
ReceiptDateDa		Date Day donation	Integer	2	dd		
		was checked into					
		the blood center					
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
ReceiptDateTime		Hour and Minute	Time	5	hh:mm		
		(hh:mm) donation					
		was checked into					Hour should use 24-hour
	00:00 -	the blood center					clock (00:00 - 23:59)
	23:59						
		Other Netation					
	-6	Other Notation  NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
InitialProcessingTimeYr	-	Date Year the first	Integer	4	уууу		
		processing step	o o		3333		
		after receipt at the					
		BC was done (e.g.					
		spin)					
	2012-2020						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					

Field Name	Valid	Decemention	Doto Time	L a sa astla	F	Deguined	Commonte (Overstiens
Field Name	Values	Description  NOT COLLECTED at	Data Type	Length	Format	Required	Comments/Questions
	-9	Hospital or Hub					
InitialProcessingTimeMo	-9	Date Month the first	Integer	2	mm		
mittan rocessing rimewo		processing step	integer	_	''''''		
		after receipt at the					
		BC was done (e.g.					
		spin)					
	1-12						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
	Valid						
Data Required	Values	Description	Data Type	Length	Format	Required	Comments/Questions
InitialProcessingTimeDa		Date Day the first	Integer	2	dd		
		processing step					
		after receipt at the					
		BC was done (e.g. spin)					
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
		UNKNOWN for					
	-8	Participant					
	_	NOT COLLECTED at					
	-9	Hospital or Hub		_			
InitialProcessingTimeHrMin		Hour and Minute	Time	5	hh:mm		
		(hh:mm) the first processing step					
		after receipt at the					
		BC was done (e.g.					Hour should use 24-hour
		spin)					clock (00:00 - 23:59)
	00:00 -	. ,					, , , , , , , , , , , , , , , , , , , ,
	23:59						
	-6	Other Notation					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments/Questions
		NOT REPORTED or UNKNOWN for					
	-8	Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					

### Specifications for tbl\_Comp\_ComponentsPooled\_BC

Field Name	Valid Values	Description	Data Type	Length	Required	Notes
PooledProductKey		Pooled Donation Identification Number (DIN) + Pooled ISBT/Codabar Product Code	Varchar	25	Y	pooled DIN + the product code of the pooled product (e.g. pooled cryo or pooled platelet)
StatusDateYr		Status Date Year	Integer	4	Υ	Required field
StatusDateMo		Status Date Month	Integer	2	Υ	Required field
StatusDateDa		Status Date Day	Integer	2	Υ	Required field
StatusDateTime		Status Hour and Minute (hh:mm)	Time	5	Υ	Required field - Hour should use 24-hour clock (00:00 - 23:59)
DIN		Donation Identification Number (DIN)	Varchar	13	Y	The original DIN becoming part of the pool
CenterID		Blood Center ID	Integer	2	Υ	
	31	Blood Center of Wisconsin				
	32	Blood Center of the Pacific/University of California, San Francisco				
	35	Institute for Transfusion Medicine				
	36	American Red Cross Blood services, CT Region				

# Specifications for tbl\_Comp\_TransfusionService

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
ProductKey		ProductKey to uniquely identify each Product in table.	999999999 99	. 3			*For ISBT: ISBT Blood Unit Identifier (DIN)    ISBT Unit Identifier (Product Code) *For Codabar: Codabar Blood Unit Identifier (DIN)    Codabar Unit Identifier (Product Code)
Product Type		Product Type	9				See Data Dictionary Entries for definitions  Renamed from Product Category to Product Type (4/18/2014) Added Product Type values for documentation (1/27/2016)
	PLAS	Plasma, -includes all types of plasma. FFP, FP24, liquid, etc.					
	RBC	Red Cells					
	PLAT	Platelets					
	CRYO	Cryoprecipitate					
	GRAN	Granulocytes					
	WHOL	Whole Blood					
	OTHER	Other Product Type					
ISBT DIN		ISBT Blood Unit Identifier (DIN) Example: W036311266086	13				

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
ISBT Product Code		ISBT Product Code Example: E0291V00	8				Report the product code after the manufacturing event (The FINAL product code as it was released for transfusion.) (4/18/2014) There is a possibility of a longer length of the Product Code in the data from data sources.
Codabar DIN		Codabar Blood Unit Identifier (DIN) Example: 32LZ30611	9				
Codabar Product Code		Codabar Product Code Example: 18499	99999				Report the product code after the manufacturing event (The FINAL product code as it was released for transfusion.) (4/18/2014)
HospitalCode		Hospital identifier (01-12) where encounter occurred	Integer	2			
	1	Froedtert Hospital					
	2	Marshfield Clinic/ Saint Joseph's Hospital					
	3	Aurora Saint Luke's Hospital					
	4	Aurora Sinai Hospitals					
	5	UCSF Medical Center					
	6	San Francisco General Hospital					
	7	San Francisco Veterans Administration					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
	8	University of Pittsburgh Medical Center Presbyterian					
	9	University of Pittsburg Medical Center Shadyside					
	10	University of Pittsburg Medical Center St. Margaret's					
	11	Bridgeport Hospital					
	12	Yale-New Haven Hospital					
ThawDateYR		Thaw Date - Year	Integer	4	уууу		All components
	2012- 2020						Allows calculation of storage age of
	-6	Other Notation					component.
	-8	NOT REPORTED or UNKNOWN for Participant					
	-9	NOT COLLECTED at Hospital or Hub					
ThawDateMO		Thaw Date - Month	Integer	2	mm		
	1-12						
	-6	Other Notation	-				
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
The Date DA	-9	Hospital or Hub	lata sa	0	-1 -1		
ThawDateDA		Thaw Date - Day	Integer	2	dd		
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
	-9	NOT COLLECTED at Hospital or Hub					
ThawDateTime	<del>-</del> 8	Thaw Time	Time	5	hh:mm		
arbato i ilio	00:00 - 23:59				1111.111111		
		Other Netation					
	-6	Other Notation					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
Tield Name	Values	NOT REPORTED or	Data Type	Lengui	1 Office	Required	Questions
	-8	UNKNOWN for Participant					
		NOT COLLECTED at	-				
	-9	Hospital or Hub					
LeukoreductionDateYR		Leukoreduction Date - Year	Integer	4	уууу		
	2012-						
	2020						
	-6	Other Notation					
	_	NOT REPORTED or					
	-8	UNKNOWN for Participant	 <del> </del>				
		NOT COLLECTED at					
Laukanadustian Data MO	-9	Hospital or Hub	lete ee	0			
LeukoreductionDateMO		Leukoreduction Date - Month	Integer	2	mm		
	4.40	MOTILIT	-				
	1-12		-				
	-6	Other Notation					
	_	NOT REPORTED or					
	-8	UNKNOWN for Participant	 <del> </del>				
		NOT COLLECTED at					
Laukanadustian Data DA	-9	Hospital or Hub	lete ee	0	-1 -1		
LeukoreductionDateDA		Leukoreduction Date - Day	Integer	2	dd		
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
LeukoreductionDateTime		Leukoreduction Time	Time	5	hh:mm		
	00:00 -						
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant	]				
		NOT COLLECTED at					
	-9	Hospital or Hub					
IrradiationDateYR		Irradiation Date - Year	Integer	4	уууу		

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
There is a second	2012-	200011111111111111111111111111111111111			. 0111101	1 to quii o u	Quotiono
	2020						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
IrradiationDateMO		Irradiation Date - Month	Integer	2	mm		
	1-12						
	-6	Other Notation					
		NOT REPORTED or	1				
	-8	UNKNOWN for Participant					
		NOT COLLECTED at	1				
	-9	Hospital or Hub					
IrradiationDateDA		Irradiation Date - Day	Integer	2	dd		
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
IrradiationDateTime		Irradiation Time	Time	5	hh:mm		
	00:00 -						
	23:59						
	-6	Other Notation	]				
		NOT REPORTED or	1				
	-8	UNKNOWN for Participant					
		NOT COLLECTED at	1				
	-9	Hospital or Hub					
PooledDateYR		Pooled Date - Year	Integer	4	уууу		
	2012-						
	2020						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					

Valid	Description	Data Type	Length	Format	Peguired	Comments & Questions
Values					Required	Questions
1 12			_			
	Other Netation	-				
-6		_				
0						
-0		$\dashv$				
_a						
<u> </u>		Integer	2	dd		
1 31			_			
	Other Netation					
-6		_				
-0		-				
_a						
3		Time	5	hh:mm		
00:00 -	Timio I dei dicuida	- 1				
	Other Notation					
-8						
-9	Hospital or Hub					
	Rinsing or Saline Wash Date - Year	Integer	4	уууу		
2012-						
	Other Notation	_				
-8						
	NOT COLLECTED at					
-9	Hospital or Hub					
	Rinsing or Saline Wash Date - Month	Integer	2	mm		
1-12						
	Other Notation					
		_				
-8						
	1-12 -6 -8 -9 1-31 -6 -8 -9 00:00 - 23:59 -6 -8 -9 2012- 2020 -6 -8	Values Pooled Date - Month  1-12 -6 Other Notation NOT REPORTED or -8 UNKNOWN for Participant NOT COLLECTED at -9 Hospital or Hub Pooled Date - Day  1-31 -6 Other Notation NOT REPORTED or -8 UNKNOWN for Participant NOT COLLECTED at -9 Hospital or Hub Time Pool Created  00:00 - 23:59 -6 Other Notation NOT REPORTED or UNKNOWN for Participant NOT COLLECTED at -9 Hospital or Hub Rinsing or Saline Wash Date - Year  2012- 2020 -6 Other Notation NOT REPORTED or -8 UNKNOWN for Participant NOT COLLECTED at Hospital or Hub Rinsing or Saline Wash Date - Year  2012- 2020 -6 Other Notation NOT REPORTED or -8 UNKNOWN for Participant NOT COLLECTED at Hospital or Hub Rinsing or Saline Wash Date - Month  1-12 -6 Other Notation NOT REPORTED or	Values   Description   Integer	ValuesDescriptionData TypeLength1-12-6Other NotationInteger2-6Other NotationNOT REPORTED or UNKNOWN for ParticipantNOT COLLECTED at Hospital or HubInteger2-9Hospital or HubNOT REPORTED or UNKNOWN for Participant NOT COLLECTED at Hospital or HubNOT REPORTED or UNKNOWN for Participant NOT REPORTED or UNKNOWN for Participant NOT REPORTED or UNKNOWN for Participant NOT COLLECTED at Hospital or HubTime5-8UNKNOWN for Participant NOT COLLECTED at Hospital or HubInteger42012-2020 -6Other Notation NOT REPORTED or UNKNOWN for Participant NOT COLLECTED at Hospital or HubInteger4NOT COLLECTED at Hospital or HubNOT COLLECTED at Hospital or HubInteger2-8UNKNOWN for Participant NOT COLLECTED at Hospital or HubNOT COLLECTED at Hospital or HubInteger2-9Hospital or HubRinsing or Saline Wash Date - MonthInteger2-6Other Notation NOT REPORTED or NOT REPO	Values   Description   Data Type   Length   Format	Values   Description   Data Type   Length   Format   Required

	Valid						Comments &
Field Name	Values	Description NOT COLL FOTED at	Data Type	Length	Format	Required	Questions
	-9	NOT COLLECTED at					
RinsingSalineWashDateDA	-9	Hospital or Hub  Rinsing or Saline Wash	Intogor	2	dd		
KilisiligoaliliewasilbatebA		Date - Day	Integer		du		
	1-31						
	-6	Other Notation					
		NOT REPORTED or	-				
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
RinsingSalineWashDateTime		Time Product Was Rinsed	Time	5	hh:mm		
		or Saline Washed					
	00:00 -						
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
AliquotDateYR	2212	Aliquot Date - Year	Integer	4	уууу		
	2012-						
	2020	Other Netation	_				
	-6	Other Notation	4				
	-8	NOT REPORTED or UNKNOWN for Participant					
	-0	NOT COLLECTED at	-				
	-9	Hospital or Hub					
AliquotDateMO		Aliquot Date - Month	Integer	2	mm		
	1-12						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at	7				
	-9	Hospital or Hub					
AliquotDateDA		Aliquot Date - Day	Integer	2	dd		
	1-31						
	-6	Other Notation					

Field Name	Valid Values	Description	Data Type	Longth	Format	Doguirod	Comments & Questions
Field Name	values	Description  NOT REPORTED or	Data Type	Length	Format	Required	Questions
	-8	UNKNOWN for Participant					
	-0	NOT COLLECTED at	-				
	-9	Hospital or Hub					
AliquotDateTime		Time Aliquot Was	Time	5	hh:mm		
		Produced					
	00:00 -						
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
	-8 UNKNOWN for Participant						
		NOT COLLECTED at					
	-9	Hospital or Hub					
DeglycerolizationDateYR		Deglycerolization Date - Year	Integer	4	уууу		
	2012-		]				
	2020						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
D. I	-9	Hospital or Hub	1.1	0			
DeglycerolizationDateMO		Deglycerolization Date - Month	Integer	2	mm		
	1-12						
	-6	Other Notation					
		NOT REPORTED or	1				
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
DeglycerolizationDateDA		Deglycerolization Date - Day	Integer	2	dd		
	1-31		1				
	-6	Other Notation	1				
		NOT REPORTED or	1				
	-8	UNKNOWN for Participant	_				
		NOT COLLECTED at					
	-9	Hospital or Hub					

Field Name	Valid Values	Description	Data Type	Longth	Format	Poquirod	Comments & Questions
DeglycerolizationDateTime	values	Description Time Product was	Data Type Time	Length 5	hh:mm	Required	Questions
Degryceronzation Date i inie		Deglycerolized	Tillie		1111.1111111		
	00:00 -	209.300.01.200					
	23:59						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9 Hospital or Hub						
ReconstitutionDateYR		Reconstitution Year	Integer	4	уууу		
	2012-						
	2020						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant NOT COLLECTED at					
	-9	Hospital or Hub					
ReconstitutionDateMO	-9	Reconstitution Month	Integer	2	mm		
ReconstitutionDuteme	4.40	reconstitution month		_	'''''		
	1-12						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
ReconstitutionDateDA	-9	Hospital or Hub  Reconstitution Day	Intogor	2	dd		
ReconstitutionDateDA		Reconstitution Day	Integer		uu		
	1-31						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
ReconstitutionDateTime		Time Product Was	Time	5	hh:mm		
	00.00	Reconstituted					
	00:00 -						
	23:59						
	-6	Other Notation					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
i leiù ivallie	Values	NOT REPORTED or	Data Type	Lengui	1 Office	Required	Questions
	-8	UNKNOWN for Participant					
		NOT COLLECTED at	=				
	-9	Hospital or Hub					
VolumeReductionDateYR		Volume Reduction Date -	Integer	4	уууу		
		Year	-				
	2012-						
	2020	Other Net 4:	_				
	-6	Other Notation NOT REPORTED or	_				
	-8	UNKNOWN for Participant					
	-0	NOT COLLECTED at	_				
	-9	Hospital or Hub					
VolumeReductionDateMO		Volume Reduction Date - Month	Integer	2	mm		
	1-12	William	_				
		Other Netation	-				
	-6	Other Notation	-				
	-8	NOT REPORTED or UNKNOWN for Participant					
	-0	NOT COLLECTED at	-				
	-9	Hospital or Hub					
VolumeReductionDateDA		Volume Reduction Date -	Integer	2	dd		
		Day					
	1-31		]				
	-6	Other Notation					
		NOT REPORTED or	-				
	-8	UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
VolumeReductionDateTime		Time Volume Was	Time	5	hh:mm		
	00.00	Reduced	-				
	00:00 -						
	23:59	Otto Notation	-				
	-6	Other Notation	1				
	0	NOT REPORTED or					
	-8	UNKNOWN for Participant NOT COLLECTED at	1				
	-9	Hospital or Hub					
	1-9	i loopital of Flub					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
Product ABO	Values	ABO of product	Varchar	6	Tormat	Required	Questions
	Α	7.20 of product					
	В						
	0		_				
	AB		_				
	POOLE	Pooled					
	D	Pooled					
Product Rh		Rh of product	Varchar	6			
	POS	Positive					
	NEG	Negative					
	POOLE D	Pooled					
Unit Volume		Volume of unit	9999				
ReleaseDateYR		Release Date - Year	Integer	4	уууу		
	2012- 2020						
	-6	Other Notation					
		NOT REPORTED or					
	-8	UNKNOWN for Participant					
	-9	NOT COLLECTED at Hospital or Hub					
	-9	Release Date - Month	Integer	2	mm		
ReleaseDateMO	1-12						
	-6	Other Notation					
	-8	NOT REPORTED or UNKNOWN for Participant					
		NOT COLLECTED at					
	-9	Hospital or Hub					
		Release Date - Day	Int	2	dd		
ReleaseDateDA	1-31						
	-6	Other Notation					
	-8	NOT REPORTED or UNKNOWN for Participant					
	-0	NOT COLLECTED at	$\dashv$				
	-9	Hospital or Hub					
ReleaseDateTime		Release Time	Time	5	hh:mm		

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Comments & Questions
	00:00 - 23:59						
	-6	Other Notation					
	-8	NOT REPORTED or UNKNOWN for Participant					
	-9	NOT COLLECTED at Hospital or Hub					

# Specifications for tbl\_Comp\_ProductsPooled\_TS

	Valid					
Field Name	Values	Description	Data Type	Length	Required	Notes
PooledProductKey		Pooled Donation Identification Number (DIN) + Pooled ISBT/Codabar Product Code	Varchar	25	Y	pooled DIN + the product code of the pooled product (e.g. pooled cryo or pooled platelet)
DIN		Donation Identification Number (DIN)	Varchar	13	Y	The original DIN becoming part of the pool
HospitalCode		Hospital identifier (01-12) where encounter occurred	Integer	2		
	1	Froedtert Hospital				
	2	Marshfield Clinic/ Saint Joseph's Hospital				
	3	Aurora Saint Luke's Hospital	1			
	4	Aurora Sinai Hospitals				
	5	UCSF Medical Center				
	6	San Francisco General Hospital				
	7	San Francisco Veterans Administration				
	8	University of Pittsburgh Medical Center Presbyterian				
	9	University of Pittsburg Medical Center Shadyside				
	10	University of Pittsburg Medical Center St. Margaret's				
	11	Bridgeport Hospital				
	12	Yale-New Haven Hospital				

### tbl\_Comp\_Imports

	Valid		Data				
Field Name	Values	Description	Type	Length	Format	Required	Notes
ProductKey		Combined DIN + ISBT/Codabar Product Code	Varchar	25			
StatusDateYr	2012- 2016	Status Date Year	Integer	4	уууу	Y	Required field
StatusDateMo	1-12	Status Date Month	Integer	2	mm	Υ	Required field
StatusDateDa	1-31	Status Date Day	Integer	2	dd	Υ	Required field
StatusDateTime	00:00 - 23:59	Time of Status	Time	5	hh:mm	Υ	Required field - Hour should use 24-hour clock (00:00 - 23:59)
CenterID		Blood Center ID	Integer	2		Υ	
	31	Blood Center of Wisconsin					
	32	Blood Center of the Pacific/University of California, San Francisco					
	35	Institute for Transfusion Medicine					
	36	American Red Cross Blood services, CT Region					
DIN		Donation Identification Number (DIN) /Blood Unit Identifier/Whole Blood Number/ Barcode/ Pool ID	Varchar	13		Y	
DonorlD		Donor ID.	Varchar	10			DonorID can be null is when the product is imported.
DonYr	2012- 2017	Year of Donation	Integer	4		Υ	Can be part of Unique Identifier if no duplicates.
DonMo	1-12	Month of Donation	Integer	2		Υ	Can be part of Unique Identifier if no duplicates.
DonDa	1-31	Day of Donation	Integer	2		Υ	Can be part of Unique Identifier if no duplicates.
	1900-						RTI to perform age validation by calculating age at the time of donation for 16 yrs or above for all donor except autologous. Autologous donors do not
BirthYr	2001	Year of Birth	Integer	4			have age restriction.

Field Name	Valid	Description	Data	Longth	Formet	Doguiro d	Notes
	Values	Description Manual of Birth	Туре	Length	Format	Required	Notes
BirthMo	1-12	Month of Birth	Integer	2			
BirthDa	1-31	Day of Birth	Integer	2			
Sex		Sex of Donor	Varchar	1			
	M	Male					
	F	Female					
	9	Unknown					
ResidenceZip		Zip Code of Donor	Varchar	10			
BornUSA		Born in USA	Varchar	1			
	N	No					
	Υ	Yes					
	9	Unknown					
Country		[If NO above] What is country of birth?	Integer	3			
		ISO 3166-1 list of country codes that will be updated annually by RTI					
	9	Unknown					
Race		What is your race? (Mark all that apply)	Varchar	6			Site to send the multiple races as concatenated field
	W	White					
	В	Black or African American					
	Е	American Indian/Alaska Native					
	Α	Asian					
	L	Native Hawaiian or other Pacific Islander					
	0	Other					
	9	Not sure, or do not wish to answer					
Ethnicity		Ethnicity of subject	Char	2			
	Υ	Hispanic or Latino					
	N	Not Hispanic or Latino					
	-6	Other Notation					
	-8	NOT REPORTED or UNKNOWN for Participant					

	Valid		Data		_ ,		
Field Name	Values	Description	Type	Length	Format	Required	Notes
	-9	NOT COLLECTED at Hospital or Hub					
ISBTProductCode		ISBT Unit Identifier (Product Code)	Varchar	8			There is a possibility of a longer length of the Product Code in the data from data sources.
CodabarProductCode		Codabar Unit Identifier (Product Code)	Integer	5			
DonProc		Donation Procedure - Recommended Codes	Varchar	2			
	WB	WHOLE BLOOD					
	SO	SAMPLE ONLY					
	PP	PLATELETPHERESIS					
	LP	LEUKOPHERESIS					
	PL	PLASMAPHERESIS					
	P2	PLATELETPHERESIS/PLASMA PHERESIS					
	P3	PLATELETPHERESIS/PLASMA PHERESIS/RBC					
	P4	PLATELETPHERESIS/RBC					
	P5	PLASMAPHERESIS/RBC					
	R2	DOUBLE RBC					
	SC	STEM CELLS					
	ОТ	OTHER					
	R1	SINGLE RBC					
	99	NOT AVAILABLE					
ProductType		Product Type	Varchar	5		Υ	
	PLAS	Plasma, -includes all types of plasma. FFP, FP24, liquid, etc.					
	RBC	Red Cells					
	PLAT	Platelets					
	CRYO	Cryoprecipitate					
	GRAN	Granulocytes					
	WHOL	Whole Blood					

Field Name	Valid Values	Description	Data	Longth	Format	Doguirod	Notes
Field Name	OTHE	Description Other Product Type	Type	Length	Format	Required	Notes
	R	Other Freddet Type					
Product ABO		ABO of product	Varchar	6			
	Α						
	В						
	0						
	AB						
	POOLE D	Pooled					
	-8	NOT REPORTED or UNKNOWN for Participant					
Product Rh		Rh of product	Varchar	6			
	POS	Positive					
	NEG	Negative					
	POOLE D	Pooled					
	-8	NOT REPORTED or UNKNOWN for Participant					
ABO_RH		Blood Type of Donor	Varchar	3			
	0+	O POSITIVE					
	A+	A POSITIVE					
	B+	B POSITIVE					
	AB+	AB POSITIVE					
	0-	O NEGATIVE					
	A-	A NEGATIVE					
	B-	B NEGATIVE					
	AB-	AB NEGATIVE					
	UNT	UNTYPED					
	-8	NOT REPORTED or UNKNOWN for Participant					
HB_Value		HEMOGLOBIN VALUE	Single	3.1			
	07.0- 25.6	07.0-25.6					
	99.1	HB Below Range					
	99.2	HB Above Range					

Field Name	Valid Values	Description	Data Type	Length	Format	Required	Notes
	99.9	Not Available					
PrevScrnHx		Previous Screening History	Varchar	1			
	N T	No previous Blood Unit Identifier (BUI) in the Blood Center Database (BCDB) for Donor  BUI with Screening Test Results in BCDB from earlier donation by same donor					
	В	BUI Assigned earlier to Donor, but Screening Test Results not in BCDB					
	9	Not Available					