

## Indiana University Health

Reviewed By/Date:\_\_\_\_\_\_ /\_\_\_\_\_\_

Indi	iana	Uni	ivers	sity ]	Heal	th								ınual: İginal		Test	_	9/20	
Indianapolis,	, IN	4620	)2											_	Date:		3/24/		
Standard Operati	ng Pro	ocedu	re Ma	ınual (	SOP)	– Traı	nsfusio	n Med	dicine				[(At	tach Cer	ner Acce	ssion Lab	el Here)		
Antibody W	Vork	k-up	Fo	rm															
IUH AHC E	Bloo	d Ba	ank	Indi	anaj	polis	Tes	ting					Pa	tient N	ame:				
													MI	RN:					
PATIENT'S							U		ATIEN				DC	)B:					
is documented on th is needed for the PA												ition		, D.					
Previous Transfu	sion:			Yes		No [	□ Unl	knowr	1*										
Cerner Review:	Last	Tran	sfusi	on at	IU H	ealth:	$\square$ N	o/Non	e, 🗆 '	Yes, D	ate:				UNKN or Pregr		ransfusio	on Histor	<u>ry or</u>
Call Floor/Clini																	ication f	for follov	<i>v</i> -up
If transfused elsew	here,	Other	r Trai	ısfusi	ng Fac	cility/E	Date:_							RN	(First and	Last Name	:)	_	
Previous Antibod	lies?	□ No.	/None	, □ `	Yes, L	ist: _								Con	tact Phone	e#		_	
Date of Last ABI																			
For Female Patie	nts:		NA :	for ma	ale pat	tients	or Wo	man 🤇	>55 ye	ears o	ld								
Women≤55: Cur					•							□ U:	nknow	n* ]	Date of	Last Rh	IG dose		_□ NA
COMMUNIC Critical Value (PF									lue to	Patier						, history ry of ant			NA
PATIENT PH	HEN	ОТ	YPI	<u> </u>	No Ph	nenoty	ре Те	sting F	Requir	ed, □	Subr	nit to	ВА Те	sting	□ His	torical 1	Phenoty	pe Ava	ilable
For serologic phenor	type te	esting:	Pati	ent tra	insfus		,		ys? 🗆	l No,	Ag te	st as n	eeded		Yes, cel	l separa	tion bef	ore testi	ng
Serologic Phenotype Testing	Е	С	e	K	k	Fy <sup>a</sup>	Fy <sup>b</sup>	Jk <sup>a</sup>	Jk <sup>b</sup>	M	N	S	S		D	AT Te	esting, (	0-4+, N	T
Results 0-4+, mf															D	ube Anti AT			
a c													-		Control of the Contro	ube Anti AT: Requi			
dumk tiser ratio															is	positive ITS IgG			
Lot Number of Antisera And Expiration															14	i i b igo	DAI		
QC Valid? Y/N															Re	G DAT C	and C3bd		
Titer Results:						<u> </u>													
Panel Lot#					Antib			•					20	64	400	050	540	4004	
Exp. : (Use Homozygou		Cell#			Tite	red	1	2	4	8	1	6	32	64	128	256	512	1024	
(Ose Homozygou	s Cell	,																	<b>∐</b>
Manual □ Visio	on 🗆				TITRA	TION:	Interpr	etation											
<u>Interpretation</u>	n an	d C	erne	er E	ntry														ř
<b>Testing Tech Initials</b>	. Pati	ent's A	ABO/I	RH ]	Patient	's Anti	ibody(i	es) or l	Reactiv	ity Det	ected								
3							¥											1504	
Second Tech Ch	eck (	initial	when o	comple	te): PI	PI che	ck/ A	re Cor	mmen	ts acc	eptab	le? C	RV cl	neck/	Results	entere	d?		
MANAGEM	ENT	RF	CVII	EW:															

Form #:

CoPath Case # \_\_\_\_\_

BBT F004.04

Form #:

BBT - F 007.04

Manual:

Testing

Indianapolis, IN 46202

Standard Operating Procedure Manual (SOP) - Transfusion Medicine

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Transfusion Complications Flow S	Sheet
(Attach Cerner Accession Label Here)	Co-Path Case #:
Patient Name:	
MRN:	Tech: Date:
DOB:	- Date:
	Check here the type of investigation
I	☐ Acute, during transfusion or within 24 hours of transfusion
I	☐ Delayed, > 24 hours to 28 days since transfusion.
PRODUCT (circle product): LPC Plass	ma LAPL CRYO OTHER:
Record DONOR ID # (DIN #) (sti	cker if available) :
<ol> <li>CLERICAL CHECK:  ☐ All data m         When data does not match – List discrepancies</li> </ol>	atches :
3. ATTACHED IV SOLUTION: ☐ NONE	□ 0.9%NaCl □ Other:
4. PATIENT'S PLASMA / SERUM EXAM:	
Post Sample 1 = Hemolysis Present: □ No (if Yes, request second post sample and confirm with RN there we Difficulty in phlebotomy: □ No □ Yes	
<u>Pre Sample</u> = Hemolysis Present: ☐ No	□ Yes
Post Sample 2 = Hemolysis Present: □ No	☐ Yes Time/Date: (see below Note for criteria)
Note: When visible hemolysis is present <b>only</b> in the plasma free hemoglobin testing and request post train	Post sample(s), send Pre and both Post samples to laboratory for nsfusion urinalysis

5. TESTING:

<u>Perform ABO-Rh, IAT and DAT on first Post sample</u> using same method of original testing & record in table. Repeat ABORh on donor segment. <u>Perform IS and AHG crossmatch</u> regardless of IAT result (pos or neg). Repeat antigen typing of unit if indicated, record in additional testing area (Section 7 on back).

NOTE: Pre sample testing is only necessary when there is a Type and Screen discrepancy or Post DAT is Positive

SAMPLE	Anti-A	Anti-B	Anti-D	A <sub>1</sub> Cell	B Cell	ABO Rh		ntibo een	dy 0-4+		DAT IgG/C3bd	DAT Interp.	XM	XM Interpretation
S/ 22	0-4+	0-4+	0-4+	0-4+	0-4+	Interp.	I	II	Ш	SCR Interp		Pos/Neg	IS/AHG <b>0-4+</b>	Compatible (or) Incompatible
POST (first)											lgG C3bd	lgG C3bd		
Donor #:													IS Post AHG Post	IS Post AHG Post
PRE (see note)*											lgG C3bd	IgG C3bd	IS Pre AHG Post	IS Pre AHG Pre

6. TEMPERATURE ELEVATION: at least 2°C or 3.6°F, send blood product to Microbiology for Gram Stain/Culture. Date/Time sample sent to Mirco



Form #: Manual:

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Testing

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Standard Operating Procedure Manual (SOP) – Transfusion Medicine

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Transfusion	Complications	Flow	Sheet

Post transfusion urinalysis	cant clerical errors. or suspected TRALI. east 2°C or 3.6°F h emolysis (Post transfusion urinalysis is required
MD notified	N at
(Blood Bank physician)	Date and time / TECH initials
,	
Document Resolution and read back to Blood	Bank physician:
Date and time / TECH initials	
8. Additional testing Requested by Blood Bank Ph	ysician:
Daviewad Dw	
Reviewed By:BB Management	Date

Tech:	Tech:	Tech:	all reagents	Tech:	Appearance ✓ and Open Date/initials
1			Appearance $\checkmark$ and		Negative Control
			visually verified		
Terh.	Tech:	Porh.	All lot numbers were		Complement Control Cells
			Saline		Anti-C3b,d
			Coombs Check		MTS IgG Card
			IgG-AHG		MTS Diluent 2
			LISS		MTS Screen Cells
			B Cells		Immucor Panoscreen
			A1 Cells		Monoclonal Ctrl
			Anti-D (series 4)		COR QC Cells
			Anti-B		Immucor
					Antisera
			Δnti-Δ	Lot #/Expiration	QC Reagent Rack
Second Lot #/Expiration	Second Lot #/Expiration	Lot #/Expiration	Number		
Rack of Second Lot	Rack of Second Lot:	All Reagent Racks	Current Lot		Test Date:
7 10 1	1 ago.			QC: RHBB	Daily Reagent QC: RHBB
1 0 + 3	Doco.				Indianapolis, IN
Quality Control	fedicine   Manual:	Transfusion Medicine	Omnon	Indiana University Health	Indiana
DBOC EOO2 07	$\dashv$	Standard Operating Procedure Manual (SOP) -	Standar		

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on all reagents Open Date/initials

Sup Review:

Date:

Peer Review

Indianapolis, IN Daily Reagent QC: RHBB Indiana University Health Standard Operating Procedure Manual (SOP) -Transfusion Medicine Form #: Manual: Quality Control BBQC-F003.08 2 of 2

Васк Васк τοτ Current շով ևօ<del>ւ</del> JoJ puz COR QC COR QC COR QC Anti-A Anti-B Anti-D OK? Z ~ ~ ~ Z Z Tech Neg ₿ RESULTS RESULTS EXPECTED EXPECTED  $A_1$ COR QC S Anti-A 0 0 0 37 LISS 0-3+ 0-3+ 0-3+ 0 Anti-B 3-4+ AHG 1-3+ 1-3+ 1-3+ २ Anti-D Gel Ig( 3-4 0 4 3-4 0

			-			Tech		
(Panoscreen cell)	Anti-C3b,d Neg	(co control cell)	(C) control coll)	Anti-C3h.d Pos		RESULTS	EXPECTED	
0		1-3+	)					
Ey		<del></del>		_	<u>-</u>	>	(BI	

I + corQC

II + corQC

≺ z ≺ z

≺ z

≺ z ≺ Z

> Z <

III + corQC

Neg+I, II or III

≺ z

<

z

DAILY:

Cell#

S

AHG

OK?

lgG

OK.5

C3b,d Pos Anti-

> C3b,d Anti-

> > OK?

Neg

≺ z

Ortho Gel

LISS 37 Immucor Tube

Yes ( ) No ( ) Tech initials Is it Monday, the scheduled BB Maintenance Day?

If No, leave Monday Maintenance blank.

If Yes, complete Monday Maintenance below.

~		ψ <u></u>				L		-	1+	++		Ğ	L
Evewash Flush	ID-MTS Dil2 Cleaning		Inspection	Auto & DD RBC Visual	(BBQC JA015.00, step 3.3)	Flushing and Clean	Weekly UltraCW System	(36.5-40.3 mL)		Ultra CW fill	Maintenance	MONDAY	
Document												Result	
On.								z	-	<		OK?	
Appli- cable												Tech	

						(36-38°C)		(30-36 )	1200001	(20-20 c)	(26 20°C)		
												VESUIT	Pocul+
≺ Z		Y N		~ Z		~		1	< N	- 2	< N	ON:	253
												ıecıi	Tock
Daily Wa		100g	200	50g		20g		ဂ္ဂ		Scale	DAILT	7	
terbath Temp.							טטטט	LITOOO	Scale #1/		Kesuit	Donale	
Result							70-TTTTT	1111 00	Scale #2/		Kesuit	Pacult	
Okay		Z	2		~	:		OK?	Scales	52/22	Both		
									ומכו מכו	Took			
Tech			רמווסווומט	Dorformod	Decontamination		Equipment	ייי סמוץ סכוומוי	Daily Bench /		DAIL!	סאווע.	
											lecii	Tack	
	Daily Waterbath Temp. Result Okay	Daily Waterbath Temp. Result Okay :	100g   N     Daily Waterbath Temp.   Result   Okay	100g N  Daily Waterbath Temp. Result Okay	Daily Waterbath Temp. Result Okay	50g N N Daily Waterbath Temp. Result Okay	20g	20g 7 1111-02 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	QC         HT3000         1111-02         OK?           Y N         20g         HT3000         11111-02         OK?           50g         Sog         N         N         N           100g         Baily Waterbath Temp.         Result         Okay	Y N         QC         HT3000         1111-02         OK?           Y N         20g         HT3000         11111-02         OK?           Y N         50g         N         N           100g         N         N         N	Scale         Scale #1/QC         Scale #1/HT3000         Scale #2/DSI         Scales Tech           Y N         20g         HT3000         11111-02         OK?           Y N         50g         N         N         N           100g         Paily Waterbath Temp.         Result         Okay	V         N         DAILT: Result Acresult Acresult Acres Acr	Nesunt         ON:         Feur         DAILY:         Result         Result         Both         Both           Y N         Y N         20g         HT3000         11111-02         OK?         Tech           Y N         Y N         20g         HT3000         11111-02         Y         N           100g         Y N         N         N         N         N         N           Daily Waterbath Temp.         Result         Result         Both         Both         Both         Both         Fech           1111-02         OK?         N         Y         N         N         N         N

z ≺	Scales OK?	Both
	Tech	
Decontamination Performed	Daily Bench / Equipment	DAILY:
		Tech

See page 1 of 2

Peer and Sup Review:

Waterbath 7 (30-37°C) Waterbath 6 (30-37°C)

~ ~ z z

Ultra CW Wipe and Empty Waste

MTS Temp: Green light?

MTS Timers (10/15/15) MTS Tach (1022-1042) Bench Incubator # 41 Bench Incubator #40 Bench Incubator #39



Form #: Manual: BBT - F 027.001

Testing

Indianapolis, IN 46202

Reviewed By: \_

BB Management

Standard Operating Procedure Manual (SOP) – Transfusion Medicine

Γra	ansfusion Complicati	ion: sfusion Reaction Invest								
(	(Attach Cerner Accession Labe	el Here)			Co Path Co	neo #:				
	Patient Name:		Co-Path Case #:							
	MRN:			Т	ech:	Date:				
'	DOB:									
1.	Delayed Serologic Tran	sfusion Reaction Criteria – C	heck all w	hich apply	to the current test	ing results				
	Choose Change of re	sults of current IAT or DAT con	npared to I	ast IAT or	DAT testing					
	New alloantik	oody identified since the last IA	T testing ir	the serur	m/plasma or eluate	;				
	Newly positiv	e tube IgG DAT								
,	Man the national transfer	and in the last 20 days 0			No DVo					
2.	Was the patient transfu	-	عاد امام منات		No ☐ Yes					
		attach this form with the Antibo	ay identific	cation vvo	гк Ор.					
	• If Yes, go to step 3.									
3.	LPC PRODUCT Transfu	sed: Indicate all the units trans	sfused bet	ween the	current IAT and pre	evious IAT				
	<ul> <li>Attach a print out of</li> </ul>	f the transfusion history from C	erner PPI	for the las	st 28 days.					
	<ul> <li>Evaluate if the patie</li> </ul>	ent has received red cells at an	other facili	ty. □	NA □ No □	] Yes				
	These will not be te	sted <b>List Below</b> or provide pri	nt out from	the other	facility of units tran	nsfused.				
	Units transfused at a dit	ferent facility:								
4.	PATIENT'S PLASMA / S	ERUM EXAM:								
	Post Sample	= Hemolysis Present:	□ No	□ Yes						
		= Icterus Present	□ No	□ Yes						
	Pre Sample, if available	= Hemolysis Present:	□ No	☐ Yes	☐ Not Available					
		= Icterus Present	□ No	☐ Yes	☐ Not Available					
5.	TESTING									
	a. Post Transfusion Testi	ng - ABO-Rh, IAT and DAT <u>are</u>	attached	as part of	the ABID.					
	b. Pre Transfusion Testin	g <u>available in Cerner</u> - attach a	a print out	of the AB0	O/Rh and IAT resu	lts for last 28 days				
	c. Obtain the segments fi	om units transfused at IUH in t	he last 28	days:						
	<ul> <li>Document testir</li> </ul>	ng of segment with the Miscella	aneous Te	sting For	m (BBQC - F062)	, Donor Unit Antigen				
	Typing Worksh	neet or with analyzer print ou	ts.							
	<ul> <li>Repeat ABO</li> </ul>	/Rh, red cell (front typing) only								
	<ul> <li>Perform IS a</li> </ul>	nd AHG crossmatch with the P	ost-transf	usion sam	ple.					
	<ul> <li>Repeat antig</li> </ul>	en typing of unit, if indicated								
	If the seame	nt cannot be recovered, docum	nent this or	the Misc	ellaneous Testing	Form or Cerner Print out.				

Date



Standard Operating Procedure Manual (SOP) – Transfusion Medicine

Form #: Manual: BBQC-F004.09 Quality Control

Indianapolis, IN

Page:

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## Daily Reagent QC: University and Methodist

QC Reagent Rack	Lot #/Ex	piration
Immucor COR QC Antisera		
Immucor COR QC Cells		
Immucor Monoclonal Ctrl		
Immucor Panoscreen		
MTS Screen Cells	þ	
MTS Card		
MTS Diluent 2		
Negative Control	Date Prep:	Date Exp:
Appearance ✓and Open date/ initials on all reagents	Tech:	

Immucor Tube				Orth	o Gel		
Cell#	IS	37°C LISS	AHG	ок?	IgG	OK?	Tech
I + corQC							,
II + corQC				Υ		Υ	
III + corQC				N		N	
Neg + I, II or							
Ш							

EXPECTED RESULTS	IS	37°C LISS	AHG	Gel IgG
1/11/111	0	0-3+	1-3+	3-4+
Neg	0	0	0√	0

Required Maintenance Tasks	Result	ок?	Tech
Bench Incubator # (36-38°C)		Y N	
MTS Tach (1022-1042)		Y N	
MTS Timers (10/15/15)		Y N	
MTS Temp: Green light?		Y N	
Daily Bench and Equipment Decontamination Performed			
CW-2 fill (41-45 mL) (Monday)		Y N N/A	
ID-MTS Diluent Dispenser Cleaning	Monday	Y N N/A	
Waterbath # (30-37°C)		Y N	

Test Date:	

Circle One: <b>University</b>	or Methodist
Immucor	Reagent Rack
Reagent	Current Lot #/Expiration
Anti-A	
Anti-B	
Anti-D (series 4)	
A1 cells	
B cells	
LISS	,
IgG-AHG	
Coombs Check Cells	
Saline	
All lot numbers were visually verified	Tech:
Appearance ✓ and Open Date/initials on all reagents	Tech:

		Anti-A	Anti-B	Anti-D	ок?	Tech
Reag	$A_1$	5.				¥
Reagent Rack	В				v Y N	
ack	COR QC					

EXPECTED	Anti A	Anti D	Anti-D	
RESULTS	Anti-A	Anti-B		
A <sub>1</sub>	3-4+		0	
В		3-4+	U	
COR QC			3-4+	

Peer Review:	
Sup Review/Date:	

Maintenance Reminder: Document on the applicable Form

MON—Eyewash Flush WED— Clean Waterbath