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Sutter Health
Sutter Roseville Medical Centerowner: Nadera Poirier: Spvr,

Transfusion Services

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Lab - Transfusion Service Policy Area:

References:

Next Review:

Applicability: Sutter Roseville Medical Center

Performing a Rh Blood Type by Tube Method **TS.ANA 10.17-RV**

Performing a Rh Blood Type by Tube Method

Purpose This procedure describes how to perform an Rh blood type.

Policy

An Rh Type and ABO group must be performed on each crossmatch specimen, on each admission when FFP is requested and on all patients without a historical blood type when requests for other components are requested.

Weak D (Du) testing must be performed on all patients with negative D results in the following

- Cord Blood/Neonate <7 days old
- Fetal Bleed evaluation
- Allogeneic BMT (Bone Marrow Transplant) recipient/donor

Equipment/ Reagents/ Supplies

Equipment			Reagents	Supplies			
CentrifugeAgglutination viewer		er	Anti DABO+Rh Control	Test tubesTest tube rackDisposable pipettes			
Specime Requiren		without separator grants: Two	ne (1) 10 ml EDTA stoppered tube (preferred) or red stoppered tube eparator gel- minimum of 3ml. wo EDTA microtainers or 1.0 ml EDTA or red stoppered tube without gel d blood cells				
Quality Control			Daily Reagent Quality Control				
Procedure: Follow the sta		Follow the s	teps below to perform Rh typing:				
Step Ac	ction						
La	bel one test tu	test tube for Anti-D with patient and reagent identifiers.					
Ad	Add one (1) drop of Anti-D in the appropriately labeled test tube.						
Pre	Prepare a 3-5% patient cell suspension.						

	Add one (1) o	lrop of the	cell s	uspension to the tube cor	ntaining the Anti-D and mix gently.				
	Centrifuge.								
	Gently resuspend the cell button and examine macroscopically for agglutination.								
	Grade and immediately record the result.								
	Save tube for use in Weak D (Du) testing, if indicated. (See policy)								
	If ABO type is type AB, perform an Rh control. Repeat steps 3 and 4 above substituting Anti-D with Monoclonal Control.								
Interp	preting Result	s	Follo	ow the steps in the table t	o interpret the Rh test.				
lf					Then				
Cells	agglutinate an	d/or are he	moly	zed	Positive reaction				
Cells	do not agglutir	nate/and or	no h	emolysis is present	Negative reaction				
lf:				Then					
		D	ntrol						
> 2+		0 o	r ND	Report					
1-2+		0 0	r ND		or mixed field agglutination and free text a BBCNC comment with				
If original testing in tube 0 or 1 <2+		r ND	Result as Rh weak D						
If original testing by ECHO <2+				Proceed to Resulting Te	sts Using the ECHO Interface				
+ or 0 +			Invalid test						
Procedure: Current results vs. historical or confirmation			Follow the steps below to compare current Rh type to historical/confirmation results:						
Step	Action	Action							
1.	Compare cur	rent Rh typ	e res	ult to previous/confirmation	on.				
2.	If:				Then:				
	Current Rh re Rh type	esult does	matcl	h previous/confirmation	Report results				
	Current Rh result does not reconfirmation Rh type			natch previous/	Refer to Resolving Patient History Discrepancies				
Repo	orting Results			·	y in LIS testing grid. mf=Mixed Field = Not required INCL= Inconclusive				
D	DC		Report Interp						
2-4+	2-4+ 0 or ND		Р						
	<2+ 0 or ND		_						

mf	0 or ND		See table below for Interpretation		
0	ND		N		
1-4+	1-4+		INVAL		
If: Then:		Then:			
Rh resulted as INVAL		Transfuse Rh negative			
Mixed field agglutination is present		 Consideration should be given to discrepancies resulting from circulating mixed cell types If no history of Rh Type prior to non-identical Rh type RBC transfusion, Rh Type cannot be reported. Transfuse Rh Negative units until Rh type can be determined If previous history of Rh type prior to transfusion of non-identical Rh type RBC, result Rh same as previously resulted 			
Related Procedures			 Performing ABO Blood Group Performing Weak D Rh Type Daily Reagent Quality Control Procedure Resolving Patient History Discrepancies 		
Reference	Manufact	urer's pro	oduct insert Blood Grouping Reagent Anti-D and ABORh Control		

All revision dates:

Attachments

No Attachments

Approval Signatures

Step Description	Approver	Date
Laboratory Director	Lindsey Westerbeck: Dir, Lab	pending