

Original Effective Date: Last Approved Review Date: Last Approved Revision Date: Responsible Department: Responsible Person: 10/2016 10/2016 10/2016 Laboratory Laboratory Medical Director

Signature:	Mad MI

Fetal Hemoglobin by Flow Cytometry

Purpose

This procedure provides instructions for how to send out testing for fetal hemoglobin by flow cytometry

Background

The passage of erythrocytes from a Rh positive fetus into the circulation of a Rh negative mother results in the formation of specific Rh antibodies. In subsequent pregnancies, the Rh antibodies formed in the blood serum of the Rh negative mother are readily transmissible though the placenta into the circulation of the fetus. The action of the antibodies on the Rh postitive cells of the fetus may result in a disease entity recognized as isohemolytic desease, or erythroblastosis.

Flow Cytometry uses light that passes through or scatters and hits different points in the chamber. Based on the scattered light pattern, the cytometer program can differentiate fetal hemoglobin which has been tagged from adult hemoglobin. This test is much more precise and specific for fetal hemoglobin.

Specimen

Mother's blood

- Anticoagulated (EDTA)
- Refrigerated or ambient
- Specimens should be tested < 72 hours from collection.
- Hemolyzed specimens are not acceptable

Materials

Reagents	Supplies	Equipment
• NA	 Barnes-Jewish Flow Cytometry Immuno Phenotyping requisition "Stat Testing" form Biohazard bag 	• NA

Quality

Control NA

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Procedure

- 1. Test Ordering
- 2. Determination of Test Flow
- 3. Computer Entry and Form Preparation
- 4. Packaging Sample
- 5. Arranging for Courier Service
- 6. Receiving and Reporting of Results

1. Test Ordering

Step	Action				
1	Nursing should order Kleib	nauer-Betke testing on the OM side.			
2	If ordered on the lab side of MCARE, order <i>KB</i> in the Enter/Edit tab of the Specimen tab.				
	Order	Name	Px		
	КВ	KLEIHAUER BETKE	BB		

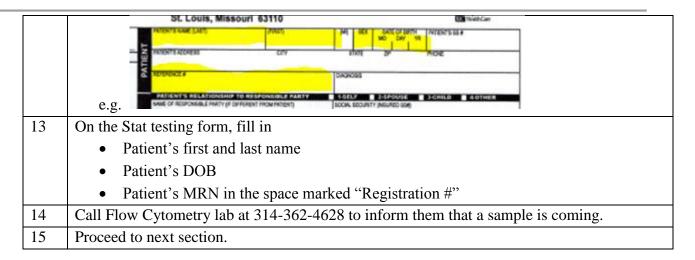
2. Determination of Test Flow

Step	Action			
2	Tech must determine if the fetal hemoglobin stain will be performed or if the testing will be sent to Barnes-Jewish hospital for flow cytometry testing. • Note: all efforts should be made to send testing for flow as this is the better testing and technique for fetal hemoglobin determination. Refer to the chart below.			
3	Send for Flow Cytometry if any of the following • M-F between 0600-1900 • Routine • For determination of RhIg to be given after normal delivery • Requested by physician	 Perform FHS if any of the following Weekends or holidays After 1900 and before 0600 M-F Doctor determines it cannot wait It is a weekend or holiday and patient will be discharged before next regular run of flow. 		
4	If it is determined that the testing will be perf <i>Hemoglobin Stain</i> procedure.	formed by staining, then refer to the <i>Fetal</i>		
5	If the testing will be sent to Barnes-Jewish ho	ospital, continue to next section.		

3. Computer Entry and Form Preparation

Step	Action
1	Log in to MCARE

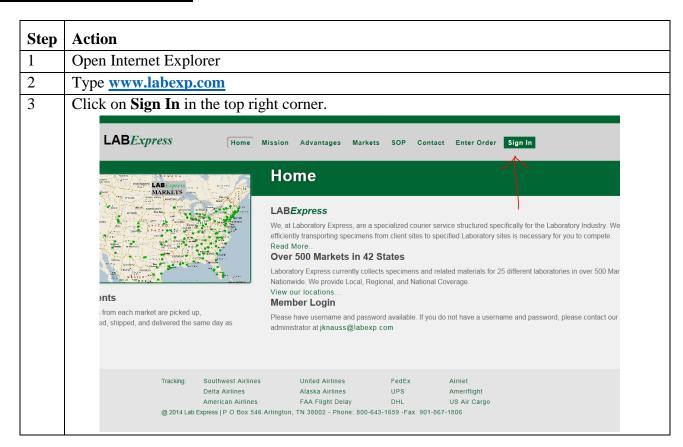
2	Go to the Specimen tab in the blood bank module.				
	Click on Enter Results				
3	Single Worklist Edit Enter/Edit Req Cancel Worksheets Enter Results Entry Screen Workcards Inquiries				
4	Type in Specimen M#, patient name or BB# to	o retrieve testing.			
5	Select the specimen with the correct test to res	ult			
6	Enter FLOW KB in the Which Test? field, or				
	1 WHICH KB TEST?	FLOW KB			
7	The next field will appear which is Previous BT? Enter Y if the patient has a historical blood type or N if the patient does not have a historical blood type.				
8	If you entered "N"	If you entered "Y"			
	 The system will order an ABORH Perform the ABORH and enter the results before proceeding. See appropriate SOP for directions on performing and resulting ABORH. Proceed to step 9. 	• Proceed to step 9.			
9	In the PAT'S RH TYPE? field, enter the patient historical ABORH. • N for negative • P for positive	ent's Rh type from the current ABORH or			
10	Press F12 or click Save.				
11	Obtain the Barnes-Jewish Flow Cytometry Immuno Phenotyping requisition form and the BJH Stat Testing form from the forms drawer. See Appendix A-BJH Flow Cytometry Immuno Phenotyping Form and Appendix B-BJH Stat Testing Form.				
12	Fill out the following at the top of the flow reconstruction Patient's first and last name Patient's sex Patient's DOB Patient's MRN in the space marked "R				



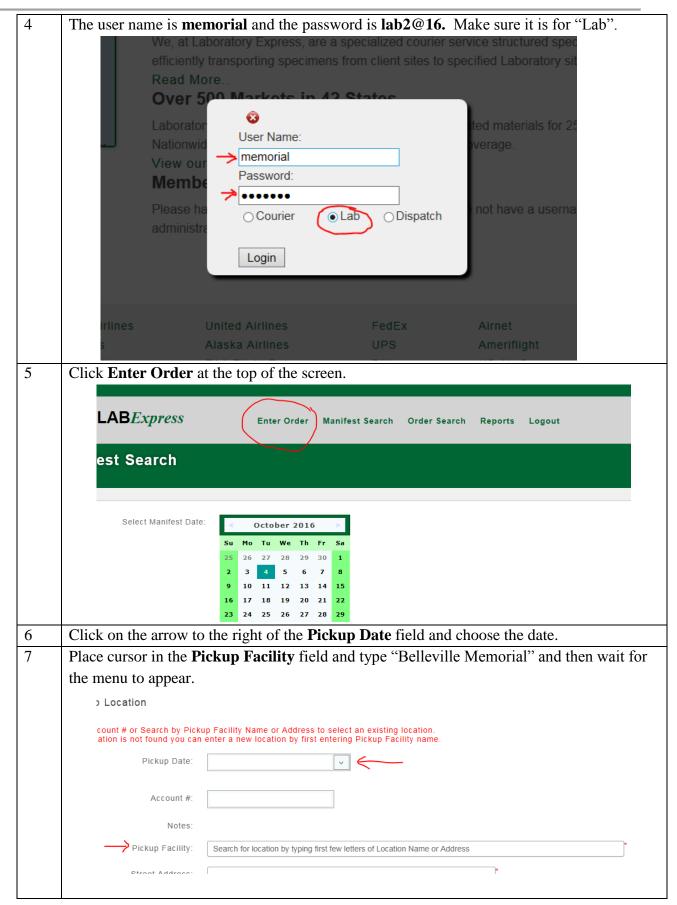
4. Packaging Sample

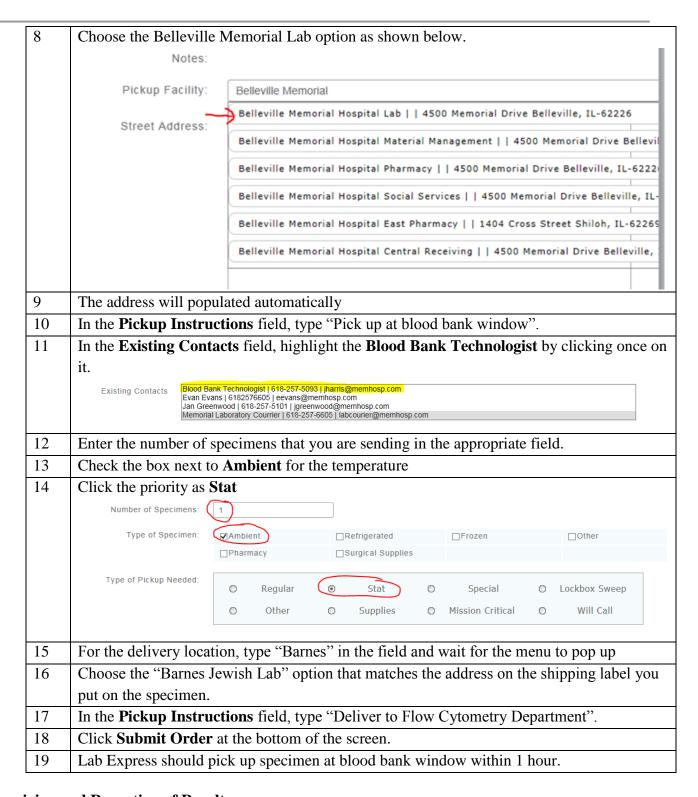
Step	Action	
1	Place sample in a small biohazard bag.	
2	Place the requisition with the Stat testing form attached in the front pocket of the bag.	
3	Seal the pocket with a Barnes-Jewish lab shipping label. See <i>Appendix C</i> .	
4	Place bag in area for Lab Express pickup.	

5. Arranging for Courier Service



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6. Receiving and Reporting of Results

Step	Action
1	The results should be called to the blood bank as well as faxed to the blood bank.
2	Once a hard copy of the results are obtained, go into the Specimen tab and then into Enter

	Results.						
3	Enter the patient's information to retrieve the KB testing screen.						
4	Enter the results from the Barnes report listed as Fetal RBC Pct-Flow in the FETAL RBC						
	FL	OW	or FETAL RBC PCT	field.	(This will depend of	on whether the p	oatient was Rh
	ne	gative	e or Rh positive). See Ap	pena	lix D for example of	Barnes Report.	
		•	NOTE: Result of < 0.05	% M	IUST be entered as	"0". MCARE	will not calculate
			correctly if you put "<"	in th	ne field.		
5	If t	he pa	tient is Rh negative, the	resul	t will look similar to	this.	
		1	WHICH KB TEST?		FLOW KB		
		2	PREVIOUS BT?		YES		
		3	PAT'S RH TYPE?		NEG		
		4	FETAL RBC PCT	X	0.11	%	0.0-0.0
		5	VIALS OF RHIG	X	1		0-1
6	If the patient is Rh positive, the result will look similar to this.						
		13	PAT'S RH TYPE?		POSITIVE		
		14	FETAL RBC FLOW	X	1.51		
		15	FKB QUAL INTERP	X	LARGE		
7	Pre	ess F	12 or click Save.				

Interpretation

o For FKB Qualitative Testing

% Acid Resistant Cells	Results
< 0.05	Negative
0.06-0.80	Small
0.81-1.49	Moderate
1.50 or Greater	Large

o For FKB Quantitative

% Acid Resistant Cells	<u>Vials of RhIg</u>
0.0-0.2	1
0.3-0.8	2
0.9-1.4	3
1.5-2.0	4
2.1-2.6	5
2.7-3.2	6
3.3-3.8	7
3.9-4.4	8
4.5-5.0	9
>5.1	See tech manual

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Result Reporting

St	tep	Action
1		After testing has been verified, place faxed copy of report in bin at the front desk area to be
		scanned into the patient's chart in HIM.

References

AABB. Standards for Blood Banks and Transfusion Services--29th Edition. Std. 5.30.2, 5.30.3, 5.30.5. Bethesda, MD: American Association of Blood Banks; 2014

AABB. Perinatal Issues in Transfusion Practice. Technical Manual--18th Edition. Bethesda, MD: AABB; 2014. Pages 565-566

Related Documents

Appendix A: BJH Flow Cytometry Immuno Phenotyping Form

Appendix B: BJH Stat Testing Form

Appendix C: Barnes-Jewish Hospital Shipping Label

Appendix D: BJH Flow Cytometry Fetal Hemoglobin Report Example

Appendix E: Fetal Hemoglobin by Flow Cytometry Flowchart

Appendix A: BJH Flow Cytometry Immuno Phenotyping Form

University in St.Louis School, o∉ Medicine	314-362-46 St. Louis, Missour					Hospital Mathematican
DOLLECTION INFORMATION: CIAM CIPM DATE TIME INITIALS		(FRST)	MI SEE M	D DAY HR	MIENSS	5.
ACCOUNT INFORMATION	WINDERS ACCRESS TETELENCE #	CITY	100E	DF .	HOE	
Memorial Hospital-Belleville	E TEPEROCE I		DAGNOSS			
ACCRESS Laboratory—Sendouts	PATIENT'S RELATIONSHIP TO RE					
4500 Memorial Drive	NAME OF RESPONSIBLE PARTY OF DIFFERE		SOCIAL SECURITY (M	SURED SOR	3-CHILD	4-OTHER
Belleville MR IL 62226	ADDRESS OF RESPONSIBLE PARTY		APT 8	27.110	_	SATE OF BATH
	d d		27527			MO DAY
	a' gry ss uz	state			29	
CIACOUNT CIPATIBITINGURANCE DALTERNATE	MEDICAD# 8597E TA	EDICATE #(NOLIDE PREVIOUS)	00)	DRIMARY DRECONGARY	MEDICIPE RE	TREMENT ON DISABIL
BLVMH	INDURANCE COMPANY NAME		IPON:		CARRIER CO	DOE
Plant Park	SUBSCREER/VENEER W					
Blood Bank 618-257-6601	THE STATE OF THE S		LOCATION		GROUP#	
PHYSICIANS ACCITES CITY, ETIATE, 39	INSURANCE ADDRESS		PHY	SICIANS PROV	ter#	
BAH REGISTRATION #	SZ GTY		STATE	20		
AND CONTRACTOR OF THE PARTY OF	CONTRACTOR CONTRACTOR CONTRACTOR				-300	
REGISTERED }	EMPLOYER'S NAME OR NUMBER				W	VORKER'S COMP
CLINICAL HISTORY AND DIAGNOSIS:						
SPECIMEN TYPE: Peripheral Blood - Immune testing:	Tube T	5 8	AMPLE SUBMI		ULECTION D	DATE VEAL
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH:	LAV / 2 DF LAV / DK	GRN C		AM CO	CLECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow:	LAV / 2 DE LAV / 2 DE LAV / DK LAV / DK GRN / C	GRN C		AM CO	ULECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow:	LAV / 2 DE LAV / 2 DE LAV / DK LAV / DK GRN / C	GRN C		AM CO	LLECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid:	LAV/2 DF LAV/2 DF LAV/DK GRN/0	GRN C		AM CO	LLECTION B	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration):	LAV/2 DF LAV/2 DF LAV/DK GRN/0	GRN C		AM CO	LUECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration):	LAV/2 DF LAV/2 DF LAV/DK GRN/0	GRN C		AM CO	ALECTION B	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative description):	LAV / 2 DF LAV / 2 DF LAV / DK GRN / C FL	GRN GRN Core-Formalin		AM CO	MO D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative d Leukemia WorkUp (Acute Leukemia ex AN)	LAV / 2 DF LAV / DK LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho	GRN GRN Core-Formalin		AM CO	LUECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative de Leukemia WorkUp (Acute Leukemia ex AN PNH Profile Includes RBC-CD59, WBC-CD	LAV / 2 DF LAV / DK LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho	GRN GRN Core-Formalin		AM CO	MO D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative de Leukemia WorkUp (Acute Leukemia ex AN PNH Profile Includes RBC-CD59, WBC-CD Sezary Cell WorkUp	LAV / 2 DF LAV / DK LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho	GRN GRN Core-Formalin		AM CO	LUECTION D	
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SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative de Leukemia WorkUp (Acute Leukemia ex AN PNH Profile Includes RBC-CD59, WBC-CD Sezary Cell WorkUp Other (Please Specify) Other Flow Test: Fetal Red Blood Cell Percentage Red Sezary Cell WorkUp Other Flow Test: Fetal Red Blood Cell Percentage Red Policy Policy Percentage Red Polic	LAV / 2 DF LAV / DK LAV / DK GRN / C FL disorder ex: CLL, NHL, HO ML, ALL, ANLL) D59 and FLAER	GRN Core-Formalin		AM CO	MG B	
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SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: FNA (Fine Needle Aspiration): Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative description): PNH Profile Includes RBC-CD59, WBC-CDS Sezary Cell WorkUp Other (Please Specify) Other Flow Test: Fetal Red Blood Cell Perconduction Test Supplied Control Con	LAV / 2 DF LAV / DK LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho ML, ALL, ANLL) D59 and FLAER centage CD8, CD19, CD16+56, C CD8, CD19, CD16+56, C	GRN Core-Formalin CL) D2, HLA-DR) CD16, CD2, CD4	DLLECTION TIME	AM PM	MO D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative description): Sezary Cell WorkUp (Acute Leukemia ex AND PNH Profile Includes RBC-CD59, WBC-CDS Sezary Cell WorkUp Other (Please Specify) Other Flow Test: Fetal Red Blood Cell Perconduction Technology (CD3, CD4, CD4, CD4, CD4, CD4, CD5, CD4, CD6, CD4, CD6, CD6, CD6, CD6, CD6, CD6, CD6, CD6	LAV / 2 DF LAV / 2 DF LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho ML, ALL, ANLL) 259 and FLAER 2508, CD19, CD16+56, C CD8, CD19, CD16+56, C CD8, CD19, CD16+56, C CD9, CD16+56, CD4/CD8	GRN Core-Formalin CL) D2, HLA-DR) CD16, CD2, CD4	DLLECTION TIME	AM PM	LUECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative description): Sezary Cell WorkUp (Acute Leukemia ex AND PNH Profile Includes RBC-CD59, WBC-CDS Sezary Cell WorkUp (Description): Cother (Please Specify) Cother Flow Test: Fetal Red Blood Cell Percondition (CD3, CD4, CD4, CD5): Lymphocyte Subpopulation 7 (CD3, CD4, CD5): Immune Competence (CD3, CD4, CD6, CD5): Immune Deficiency (CD4, CD8, CD4/CD8): CD4	LAV / 2 DF LAV / 2 DF LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho ML, ALL, ANLL) 259 and FLAER 2508, CD19, CD16+56, C CD8, CD19, CD16+56, C CD8, CD19, CD16+56, C CD9, CD16+56, CD4/CD8	GRN Core-Formalin CL) D2, HLA-DR) CD16, CD2, CD4	DLLECTION TIME	AM PM	LLECTION D	
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SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue: Other: LABORATORY TEST Lymphoma WorkUp (Lymphoproliferative description): Sezary Cell WorkUp (Acute Leukemia ex AND PNH Profile Includes RBC-CD59, WBC-CDS Sezary Cell WorkUp (Description): Cother Flow Test: Fetal Red Blood Cell Percondition (CD3, CD4, CD4, CD4): Immune Competence (CD3, CD4, CD6, CD4): Immune Deficiency (CD4, CD8, CD4/CD8): CD4	LAV / 2 DF LAV / 2 DF LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho ML, ALL, ANLL) D59 and FLAER Dentage CD8, CD19, CD16+56, C CD8, CD19, CD16+56, C D19, CD16+56, CD4/CD8 Ratio)	GRN Core-Formalin CL) D2, HLA-DR) CD16, CD2, CD4	DLLECTION TIME	AM PM	LLECTION D	
SPECIMEN TYPE: Peripheral Blood - Immune testing: Peripheral Blood Leuk/Lym workup: Peripheral Blood PNH: Bone Marrow: Fluid: Tissue:	LAV / 2 DF LAV / 2 DF LAV / DK GRN / C FL disorder ex: CLL, NHL, Ho ML, ALL, ANLL) 259 and FLAER 2508, CD19, CD16+56, C CD8, CD19, CD16+56, C CD8, CD19, CD16+56, C CD9, CD16+56, CD4/CD8 Ratio)	GRN Core-Formalin CL) D2, HLA-DR) CD16, CD2, CD4	DLLECTION TIME	AM PM	MO D	

Appendix B: BJH Stat Testing Form

STAT TESTING
STAT TESTING/CALL BACK
X
Patient Name:
DOB:
Registration Number:
Test name: Fetal Hgb by Flow
Name: Blood Bank
Call back #: 618-257-5093
Called Back:
Time/Initals:
To:
X1211-15 (6/02)

Appendix C: Barnes-Jewish Hospital Shipping Label

+	
	Barnes-Jewish Hospital Lab
	Flow Cytometry Department
	425 Euclid Suite 4701
	(4 th Floor)
	St. Louis, MO 63110

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Appendix D: BJH Flow Cytometry Fetal Hemoglobin Report Example

Barnes-Jewish Hospital One Barnes-Jewish Hospital Plaza St. Louis, MO 63110-1003 314-362-1470 Medical Director: Dr. Charles Eby

CLIA #: 26D0438670

Memorial Hospital-Belleville (BJH) 4500 Memorial Dr Belleville, IL 62226-

Patient: MRN:

Patient Acct (FIN)

DOR Age/Gender:

Location Accession Female

16-203-010389

Admit Date:

Discharge Date:

Admitting Physician: Attending Physician: Ordering Physician:

7/21/2016

Unknown Notinfile Unknown Notinfile Unknown ,Notinfile

Hematology

Misc Hematology/Stains

Collected Date 7/21/2016

Collected Time 15:19 CDT Test

Fetal RBC Pct-Flow <0.05 4

Units Reference [0.05-0.11]

Interpretive Data

Fetal RBC Pct-Flow

Interpretative Data

Dosage of RhIG for the prevention of RhD alloimmunization following fetomaternal hemorrhage must be based on the individual clinical situation. The dosage recommendations provided here represent one published method and are voluntary.

Dosage of RhIG, in number of 300 mcg vials, is based on the estimated volume of fetomaternal bleed, calculated by estimating the maternal blood volume and multiplying by the percent of fetal cells in the maternal blood provided by the Kleihauer-Betke or flow cytometry test methods. The recommended dosage is the estimated volume of fetomaternal bleed, divided by 30 ml, rounded to the nearest integer, plus one. In the case of a negative screen for fetal cells, the recommended dose is one vial.

Fetomaternal bleed Recommended dose (vials) Negative screen 1 <15 ml 1 15-44 ml 2 45-74 ml 3

As an example, if the estimated maternal blood volume is 5,000 ml and the percent of fetal cells by flow cytometry is 1.5%, the dose would be calculated as: Estimated fetomaternal bleed = 5,000 ml x 0.015 = 75 ml Recommend dose = 75 ml / 30 ml = 2.5, round and add one = 4 vials

These recommendations are published in the AABB Technical Manual, 17th ed, 2011, pp. 636-9. Further questions may be directed to the Laboratory Medicine Resident at 747-1320.

This test was developed and its performance characteristics determined by the Barnes Jewish Flow Cytometry laboratory. It has not been cleared or approved by the US

LEGEND: C= Critical, L=Low, H=High, *= Abnormal, *= Corrected, F=Footnote, i=Interp Data, @=Performing Lab, OC= Order Comments Report Request ID: 41832291 Print Date/Time: 7/21/2016 19:00 CDT

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Page 1 of 2

Sample received for FHS -YES-Stat? ·NO Will patient be Weekend or discharged before Holiday or results obtained? off hours? NO-YES-·NO YES-Perform FH Perform FH Send to BJH Send to BJH Stain Stain Computer entry Refer to FHS procedure "F" for Pt have YES which test prev. type? ΝÖ Put sample and Perform Complete req Enter Pt Rh req in bag and type and and stat attach shipping type. result testing forms label **Enter results** Order courier received pickup from BJH. Place faxed copy of results for scanning by HIM.

Appendix E: Fetal Hemoglobin by Flow Cytometry Flowchart

PROCEDURE AND FORM CHANGE CONTROL

Title: Fetal Hemoglobin by Flow Cytometry										
Writte	Written Validated		ated	Path Review		Review		Effective		Reason for
Date	By	Date	By	Date	By	Date	By	Date	By	Revision
10/4/2016	JLH	10/5/16	GJM	10/14/16	ESB			10/21/16	JLH	
Revised										

Location of any copy(s) of the procedure:

Out of use:			
Date:	By:	Reason:	