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University of Washington Medical Center	Original Effective Date:	Number:
1959 NE Pacific Street. Seattle, WA 98195	08/09/17	PC-0065.02
Transfusion Services Laboratory	Revision Effective Date:	
Policies and Procedures Manual		
TITLE: Method Comparison		
TITLE: Method Comparison		

PURPOSE:

To verify the same results are obtained when performing the same test using different methods

PRINCIPLE & CLINICAL SIGNIFICANCE

POLICIES:

Method comparisons are performed twice a year for the following:

TEST	METHODS
ABO/Rh	Automated Method
ABO/IGI	Manual tube Method
	Automated Method
Antibody Screen	LISS Tube Method
	PEG Tube Method
	Automated Method
Antibody Identification	LISS Tube Method
	PEG Tube Method
Direct AntiglobulinTest (DAT: Polyspecific	Automated Method
and IgG)	Manual tube Method
Donor ADO/Dh	Automated Method
Donor ABO/Rh	Manual tube Method

SPECIMEN REQUIREMENTS:

EDTA is preferred and if not tested soon after collection, should be stored at 1-6°C. Red top tubes are acceptable.

See SOP Specimen Acceptability and Order Receipt

REAGENTS/SUPPLIES/EQUIPMENT:

Reagents:	Supplies:	Equipment:
See specific SOP	See specific SOP	See specific SOP

QUALITY CONTROL:

- Reagents are quality controlled daily or on day of use
- Reagents are used according to manufacturer's instructions

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INSTRUCTIONS:

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Comparison of Antibody Screen Test Methods

Comparison of Antibody Identification Methods

Comparison of ABO/Rh Test Methods

Comparison of DAT (Polyspecific and IgG) Test Methods

Comparison of Donor ABO/Rh Confirmation Test Methods

Comparison of Antibody Screen Test Methods

STEP	ACTION	
1	Select at least 10 patient samples with a minimum of 2 positive antibody screens	
2	 Perform an antibody screen on each specimen using the following methods LISS Tube Method (SOP LISS Indirect Antiglobulin Technique) PEG Tube Method (SOP PEG Indirect Antiglobulin Technique) Vision Automated Antibody Screen (SOP Ortho Vision – Patient and Donor Testing and Ortho Vision – Results Management) 	
3	Record the reactions and results of the tube testing on an ABSC <i>Method Comparison Worksheet</i> and print the results from the Ortho Vision	
4	Record the interpretations on the ABSC <i>Method Comparison Worksheet</i> – refer to section Interpretation	

Comparison of Antibody Identification Methods

STEP	ACTION
1	Select at least 2 patient specimens with a positive antibody screen
'	NOTE: Samples should be positive for clinically significant antibodies
	Perform an antibody identification workup on each specimen using the following methods
	LISS Tube Method (SOP LISS Indirect Antiglobulin Technique)
2	PEG Tube Method (SOP PEG Indirect Antiglobulin Technique)
	 Automated Antibody Screen (SOP Ortho Vision – Patient and Donor Testing and Ortho Vision - Results Management)
3	Record the reactions and results of the tube testing on the appropriate panel
	antigram
4	Print the results from the Ortho Vision and record the reaction and results on the appropriate antigram
5	Record the interpretations of antibody identified on the ABID Method Comparison
	Worksheet – refer to section Interpretation
6	Attached all paperwork to the ABID Method Comparison Worksheet

Comparison of ABO/Rh Test Methods

STEP	ACTION
1	Select a least 8 patient specimens ensuring there is a sample for each ABO group (A, B, AB and O) and each Rh type (Rh Neg and Rh Pos)

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STEP	ACTION	
2	Perform ABO/Rh testing on each specimen using the following methods • Tube Method (SOP ABO/Rh Manual Tube Method) • Automated Method (SOPs Ortho Vision – Patient and Donor Testing and Ortho Vision - Results Management)	
3	Record the reactions and results of the tube testing on a Type and Screen Downtime Worksheet	
4	Print the results from the Ortho Vision	
5	Record the interpretations on the ABO/Rh Method Comparison Worksheet – refer to section Interpretation	
6	Attached all paperwork to the ABO/Rh Method Comparison Worksheet	

Comparison of DAT (Polyspecific and IgG) Test Methods

STEP	ACTION
1	Select at least 5 patient specimens with a minimum of 2 IgG positive and 1 polyspecific negative
2	 Perform polyspecific DAT testing on each specimen using the following methods Tube Method (SOP DAT (Direct Antiglobulin Test) Automated method (SOPs Ortho Vision – Patient and Donor Testing and Ortho Vision - Results Management)
3	Record the reactions and results of the tube testing on the <i>DAT Method Comparison Worksheet</i> and print the reactions and the results from the Ortho Vision
4	Perform IgG DAT testing on each specimen using the following methods • Tube Method (SOP DAT (Direct Antiglobulin Test) • Automated method (SOPs Ortho Vision – Patient and Donor Testing and Ortho Vision - Results Management)
5	Record the reactions and results of the tube testing on the <i>DAT Method Comparison Worksheet</i> and print the reactions and the results from the Ortho Vision – refer to section Interpretation
6	Record the interpretations on the DAT Method Comparison Worksheet

Comparison of Donor ABO/Rh Confirmation Test Methods

STEP	ACTION
1	Select at least 5 specimens ensuring there is a sample for each ABO group (A, B, AB and O) and each Rh type (Rh Neg and Rh Pos)
2	Perform ABO/Rh donor confirmation testing on each specimen using the following methods • Tube method (SOP <i>Unit Type Confirmation Using Tube Method</i>) • Ortho Vision Automated method (SOPs <i>Ortho Vision-Patient and Donor Testing</i> and <i>Ortho Vision-Results Management</i>)
3	Record the reactions and results of the tube testing on the <i>Donor ABO/Rh Method Comparison Worksheet</i> and print the reactions and the results from the Ortho Vision

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STEP	ACTION
4	Record the interpretations on the <i>Donor ABO/Rh Method Comparison Worksheet</i> –
	refer to section Interpretation

CALCULATIONS/INTERPRETATIONS/RESULTS REPORTING/NORMAL VALUES/CRITICAL VALUES

Interpretation

into protestion				
If	Then Method Comparison is			
Interpretations match between methods	Acceptable			
Interpretations do not match between methods	Not Acceptable			

REFERENCES

CAP All Common Checklist – Current Version

RELATED DOCUMENTS

FORM ABO/Rh Method Comparison Worksheet

FORM ABSC Method Comparison Worksheet

FORM ABID Method Comparison Worksheet

FORM DAT Method Comparison Worksheet

FORM Donor ABO/Rh Method Comparison Worksheet

SOP ABO/Rh Manual Tube Method

SOP LISS Indirect Antiglobulin Technique

SOP PEG Indirect Antiglobulin Technique

SOP Ortho Vision - Patient and Donor Testing

SOP Ortho Vision - Results Management

SOP DAT (Direct Antiglobulin Test)

SOP Antibody Identification

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UWMC SOP Approval:						
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