



University of Washington Medical Center 1959 NE Pacific Street. Seattle, WA, 98195 Transfusion Services Laboratory Policies and Procedures Manual	Original Effective Date: 03-11-2016	Number: PC-0021.02
	Revision Effective Date: 05-23-2022	
TITLE: Antibody Screen Testing		

PURPOSE:

To provide instructions to screen specimens for unexpected antibodies

PRINCIPLE & CLINICAL SIGNIFICANCE:

Principle

Testing is performed to detect clinically significant antibodies to RBC antigens, which are defined as those that have been previously associated with hemolytic disease of fetus and newborn, hemolytic transfusion reactions or decreased RBC survival. Typically, these antibodies react at 37°C or AHG phase.

Clinical Significance

Transfusion of incompatible RBCs can have serious consequences, including renal failure and death.

POLICIES:

- Current antibody screen testing is required prior to release of RBCs for transfusion except for emergency uncrossmatched blood
- Negative antibody screens on infants are considered valid for the first four months of life and do not need to be repeated every 3 days unless the patient is discharge. If discharged and readmitted, a new antibody screen is required
- Positive antibody screens:
 - When antibodies are detected, additional testing shall be performed to identify antibodies of clinical significance
 - In patients with a history of previously identified antibodies, methods of testing shall be capable of detecting the presence of and identifying newly formed clinically significant antibodies
- Perform the following history check for first time positive antibody screens
 - Contact the patient’s provider or RN regarding the patient transfusion history including transfusion at prior institutions. If patient has a history at another institution, contact the institution for transfusion and prior history of antibodies
 - Contact the local blood supplier for relevant transfusion and prior history of antibodies
- Providers are notified of newly positive antibody screens and when antibodies workups may cause a delay providing blood components
- An AHG phase crossmatch is required when the current antibody screen is positive, or patient has a history of a clinically significant antibody

SPECIMEN REQUIREMENTS:

EDTA is preferred and if not tested soon after collection, should be stored at 1-6°C

Red top tubes are acceptable

Refer to SOP *Specimen Acceptability and Order Receipt*

TITLE: Antibody Screen Testing	Number: PC-0021.02
---------------------------------------	-------------------------------

REAGENTS/SUPPLIES/EQUIPMENT:

Reagents:	Supplies:	Equipment:
<ul style="list-style-type: none"> • Antibody screening cells • LISS • PEG • Blood Bank Saline • Anti-IgG • IgG coated control cells 	<ul style="list-style-type: none"> • 12 x 75 mm glass tubes • Transfer pipettes 	<ul style="list-style-type: none"> • Calibrated cell washer • Calibrated serologic centrifuge • 37°C Heat Block • Agglutination viewer • Vision analyzer

NOTE: Reagents, supplies and equipment vary depending on the method used for testing

QUALITY CONTROL:

Reagent QC is performed daily or day of use

INSTRUCTIONS:

STEP	ACTION		
1	Perform antibody screen test using approved method: <ul style="list-style-type: none"> • Primary <ul style="list-style-type: none"> ○ Vision (automated) (refer to SOP <i>Ortho Vision Patient and Donor Testing</i>) ○ PeG (manual) (refer to SOP <i>PeG Indirect Antiglobulin Technique</i>) • Back-up methods to be used if primary method is unavailable or sample characteristics limit the usefulness of primary testing <ul style="list-style-type: none"> ○ LISS technique (refer to SOP <i>LISS Indirect Antiglobulin Technique</i>) ○ Pre-warm technique (refer to SOP <i>Pre-Warm Technique</i>) 		
2	Compare the current antibody screen results to historical results if available		
	If Antibody Screen is		Then
	Historical	Current	
	Negative/Not Found	Negative	No additional testing is required
Positive	Negative		
Negative/Not Found	Positive	<ul style="list-style-type: none"> • Notify RN or provider of newly positive antibody and potential delay in RBC availability – refer to SOP <i>Reporting Patient Test Results and Verbal Provider Notification</i> • Perform an outside history check by: <ul style="list-style-type: none"> ○ Contact the patient provider or RN regarding the patient transfusion history including transfusion at prior institutions. If patient has a history at another institution, contact the outside institution for transfusion and prior history of antibodies ○ Contact the local blood supplier for relevant transfusion and prior history of antibodies 	

STEP	ACTION										
			<ul style="list-style-type: none"> Perform a full antibody identification workup – refer to SOP <i>Antibody Identification</i> 								
	If Antibody Screen is		Then								
	Historical	Current									
	Positive	Positive	<ul style="list-style-type: none"> Notify RN or provider of potential delay if RBC order is pending – refer to SOP <i>Reporting Patient Test Results and Verbal Provider Notification</i> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%;">If</th> <th style="width: 50%;">Then</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Reaction pattern consistent with historical antibody</td> <td style="padding: 5px;"> Perform select cells to rule out all other clinically significant alloantibodies – refer to SOP <i>Antibody Identification</i> NOTE: An alternate method may be utilized to perform rule outs. EXAMPLE: LISS antibody screen in the presence of known warm auto antibody </td> </tr> <tr style="background-color: #d3d3d3;"> <th style="text-align: left;">If <u>any</u> apply</th> <th style="text-align: left;">Then</th> </tr> <tr> <td style="padding: 5px;"> <ul style="list-style-type: none"> Reaction pattern not consistent with historical antibody Unexplained hemolysis </td> <td style="padding: 5px;">Perform a full antibody identification workup – refer to SOP <i>Antibody Identification</i></td> </tr> </tbody> </table>	If	Then	Reaction pattern consistent with historical antibody	Perform select cells to rule out all other clinically significant alloantibodies – refer to SOP <i>Antibody Identification</i> NOTE: An alternate method may be utilized to perform rule outs. EXAMPLE: LISS antibody screen in the presence of known warm auto antibody	If <u>any</u> apply	Then	<ul style="list-style-type: none"> Reaction pattern not consistent with historical antibody Unexplained hemolysis 	Perform a full antibody identification workup – refer to SOP <i>Antibody Identification</i>
If	Then										
Reaction pattern consistent with historical antibody	Perform select cells to rule out all other clinically significant alloantibodies – refer to SOP <i>Antibody Identification</i> NOTE: An alternate method may be utilized to perform rule outs. EXAMPLE: LISS antibody screen in the presence of known warm auto antibody										
If <u>any</u> apply	Then										
<ul style="list-style-type: none"> Reaction pattern not consistent with historical antibody Unexplained hemolysis 	Perform a full antibody identification workup – refer to SOP <i>Antibody Identification</i>										

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

INTERPRETATION:

Refer to applicable SOPs

RESULTS REPORTING IN SUNQUEST:

STEP	ACTION																																																																	
1	Record reactions immediately upon reading in Sunquest Blood Order Processing (BOP) or appropriate form																																																																	
2	<table border="1"> <thead> <tr> <th data-bbox="298 386 521 436">If Method is</th> <th data-bbox="521 386 1429 436">Then</th> </tr> </thead> <tbody> <tr> <td data-bbox="298 436 521 487">Vision</td> <td data-bbox="521 436 1429 487">Refer to SOP <i>Ortho Vision Results Management</i></td> </tr> <tr> <td data-bbox="298 487 521 1556">PeG</td> <td data-bbox="521 487 1429 1556"> Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 520 646 571">Phase</th> <th data-bbox="646 520 1429 571">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 571 646 674">INC</td> <td data-bbox="646 571 1429 674">ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND</td> </tr> <tr> <td data-bbox="521 674 646 724">AHG</td> <td data-bbox="646 674 1429 724">0 or +</td> </tr> <tr> <td data-bbox="521 724 646 827">CC</td> <td data-bbox="646 724 1429 827">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table> <p>+ = Any positive reaction, including hemolysis, enter reaction strength observed using appropriate numerical key 0 = Negative reaction ND = Not Done, enter using "N" key EXAMPLES:</p> <table border="1"> <thead> <tr> <th data-bbox="521 995 618 1056"></th> <th data-bbox="618 995 776 1056">INC</th> <th data-bbox="776 995 883 1056">AHG</th> <th data-bbox="883 995 1040 1056">CC</th> <th data-bbox="1040 995 1148 1056">Interp</th> <th data-bbox="1148 995 1370 1056">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1056 618 1106">SC1</td> <td data-bbox="618 1056 776 1106">ND</td> <td data-bbox="776 1056 883 1106">0</td> <td data-bbox="883 1056 1040 1106">+</td> <td data-bbox="1040 1056 1148 1205" rowspan="3">Neg</td> <td data-bbox="1148 1056 1370 1205" rowspan="3">N</td> </tr> <tr> <td data-bbox="521 1106 618 1157">SC2</td> <td data-bbox="618 1106 776 1157">ND</td> <td data-bbox="776 1106 883 1157">0</td> <td data-bbox="883 1106 1040 1157">+</td> </tr> <tr> <td data-bbox="521 1157 618 1205">SC3</td> <td data-bbox="618 1157 776 1205">ND</td> <td data-bbox="776 1157 883 1205">0</td> <td data-bbox="883 1157 1040 1205">+</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th data-bbox="521 1241 618 1302"></th> <th data-bbox="618 1241 776 1302">INC</th> <th data-bbox="776 1241 883 1302">AHG</th> <th data-bbox="883 1241 1040 1302">CC</th> <th data-bbox="1040 1241 1148 1302">Interp</th> <th data-bbox="1148 1241 1370 1302">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1302 618 1352">SC1</td> <td data-bbox="618 1302 776 1352">*ND</td> <td data-bbox="776 1302 883 1352">0 or +</td> <td data-bbox="883 1302 1040 1352">ND or +**</td> <td data-bbox="1040 1302 1148 1451" rowspan="3">Pos</td> <td data-bbox="1148 1302 1370 1451" rowspan="3">P</td> </tr> <tr> <td data-bbox="521 1352 618 1402">SC2</td> <td data-bbox="618 1352 776 1402">*ND</td> <td data-bbox="776 1352 883 1402">0 or +</td> <td data-bbox="883 1352 1040 1402">ND or +**</td> </tr> <tr> <td data-bbox="521 1402 618 1451">SC3</td> <td data-bbox="618 1402 776 1451">*ND</td> <td data-bbox="776 1402 883 1451">0 or +</td> <td data-bbox="883 1402 1040 1451">ND or +**</td> </tr> </tbody> </table> <p>*NOTE: Although a reading is not performed at incubation, hemolysis in noted prior to washing should be documented using "H" in the INC field</p> </td> </tr> <tr> <td data-bbox="298 1556 521 1837">LISS</td> <td colspan="2" data-bbox="521 1556 1429 1837"> Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 1589 646 1640">Phase</th> <th data-bbox="646 1589 1429 1640">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1640 646 1690">INC</td> <td data-bbox="646 1640 1429 1690">0 or +</td> </tr> <tr> <td data-bbox="521 1690 646 1740">AHG</td> <td data-bbox="646 1690 1429 1740">0 or +</td> </tr> <tr> <td data-bbox="521 1740 646 1837">CC</td> <td data-bbox="646 1740 1429 1837">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	If Method is	Then	Vision	Refer to SOP <i>Ortho Vision Results Management</i>	PeG	Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 520 646 571">Phase</th> <th data-bbox="646 520 1429 571">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 571 646 674">INC</td> <td data-bbox="646 571 1429 674">ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND</td> </tr> <tr> <td data-bbox="521 674 646 724">AHG</td> <td data-bbox="646 674 1429 724">0 or +</td> </tr> <tr> <td data-bbox="521 724 646 827">CC</td> <td data-bbox="646 724 1429 827">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table> <p>+ = Any positive reaction, including hemolysis, enter reaction strength observed using appropriate numerical key 0 = Negative reaction ND = Not Done, enter using "N" key EXAMPLES:</p> <table border="1"> <thead> <tr> <th data-bbox="521 995 618 1056"></th> <th data-bbox="618 995 776 1056">INC</th> <th data-bbox="776 995 883 1056">AHG</th> <th data-bbox="883 995 1040 1056">CC</th> <th data-bbox="1040 995 1148 1056">Interp</th> <th data-bbox="1148 995 1370 1056">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1056 618 1106">SC1</td> <td data-bbox="618 1056 776 1106">ND</td> <td data-bbox="776 1056 883 1106">0</td> <td data-bbox="883 1056 1040 1106">+</td> <td data-bbox="1040 1056 1148 1205" rowspan="3">Neg</td> <td data-bbox="1148 1056 1370 1205" rowspan="3">N</td> </tr> <tr> <td data-bbox="521 1106 618 1157">SC2</td> <td data-bbox="618 1106 776 1157">ND</td> <td data-bbox="776 1106 883 1157">0</td> <td data-bbox="883 1106 1040 1157">+</td> </tr> <tr> <td data-bbox="521 1157 618 1205">SC3</td> <td data-bbox="618 1157 776 1205">ND</td> <td data-bbox="776 1157 883 1205">0</td> <td data-bbox="883 1157 1040 1205">+</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th data-bbox="521 1241 618 1302"></th> <th data-bbox="618 1241 776 1302">INC</th> <th data-bbox="776 1241 883 1302">AHG</th> <th data-bbox="883 1241 1040 1302">CC</th> <th data-bbox="1040 1241 1148 1302">Interp</th> <th data-bbox="1148 1241 1370 1302">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1302 618 1352">SC1</td> <td data-bbox="618 1302 776 1352">*ND</td> <td data-bbox="776 1302 883 1352">0 or +</td> <td data-bbox="883 1302 1040 1352">ND or +**</td> <td data-bbox="1040 1302 1148 1451" rowspan="3">Pos</td> <td data-bbox="1148 1302 1370 1451" rowspan="3">P</td> </tr> <tr> <td data-bbox="521 1352 618 1402">SC2</td> <td data-bbox="618 1352 776 1402">*ND</td> <td data-bbox="776 1352 883 1402">0 or +</td> <td data-bbox="883 1352 1040 1402">ND or +**</td> </tr> <tr> <td data-bbox="521 1402 618 1451">SC3</td> <td data-bbox="618 1402 776 1451">*ND</td> <td data-bbox="776 1402 883 1451">0 or +</td> <td data-bbox="883 1402 1040 1451">ND or +**</td> </tr> </tbody> </table> <p>*NOTE: Although a reading is not performed at incubation, hemolysis in noted prior to washing should be documented using "H" in the INC field</p>	Phase	Result	INC	ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND	AHG	0 or +	CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions		INC	AHG	CC	Interp	Sunquest Hot Key	SC1	ND	0	+	Neg	N	SC2	ND	0	+	SC3	ND	0	+		INC	AHG	CC	Interp	Sunquest Hot Key	SC1	*ND	0 or +	ND or +**	Pos	P	SC2	*ND	0 or +	ND or +**	SC3	*ND	0 or +	ND or +**	LISS	Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 1589 646 1640">Phase</th> <th data-bbox="646 1589 1429 1640">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1640 646 1690">INC</td> <td data-bbox="646 1640 1429 1690">0 or +</td> </tr> <tr> <td data-bbox="521 1690 646 1740">AHG</td> <td data-bbox="646 1690 1429 1740">0 or +</td> </tr> <tr> <td data-bbox="521 1740 646 1837">CC</td> <td data-bbox="646 1740 1429 1837">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table>		Phase	Result	INC	0 or +	AHG	0 or +	CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions
	If Method is	Then																																																																
	Vision	Refer to SOP <i>Ortho Vision Results Management</i>																																																																
	PeG	Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 520 646 571">Phase</th> <th data-bbox="646 520 1429 571">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 571 646 674">INC</td> <td data-bbox="646 571 1429 674">ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND</td> </tr> <tr> <td data-bbox="521 674 646 724">AHG</td> <td data-bbox="646 674 1429 724">0 or +</td> </tr> <tr> <td data-bbox="521 724 646 827">CC</td> <td data-bbox="646 724 1429 827">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table> <p>+ = Any positive reaction, including hemolysis, enter reaction strength observed using appropriate numerical key 0 = Negative reaction ND = Not Done, enter using "N" key EXAMPLES:</p> <table border="1"> <thead> <tr> <th data-bbox="521 995 618 1056"></th> <th data-bbox="618 995 776 1056">INC</th> <th data-bbox="776 995 883 1056">AHG</th> <th data-bbox="883 995 1040 1056">CC</th> <th data-bbox="1040 995 1148 1056">Interp</th> <th data-bbox="1148 995 1370 1056">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1056 618 1106">SC1</td> <td data-bbox="618 1056 776 1106">ND</td> <td data-bbox="776 1056 883 1106">0</td> <td data-bbox="883 1056 1040 1106">+</td> <td data-bbox="1040 1056 1148 1205" rowspan="3">Neg</td> <td data-bbox="1148 1056 1370 1205" rowspan="3">N</td> </tr> <tr> <td data-bbox="521 1106 618 1157">SC2</td> <td data-bbox="618 1106 776 1157">ND</td> <td data-bbox="776 1106 883 1157">0</td> <td data-bbox="883 1106 1040 1157">+</td> </tr> <tr> <td data-bbox="521 1157 618 1205">SC3</td> <td data-bbox="618 1157 776 1205">ND</td> <td data-bbox="776 1157 883 1205">0</td> <td data-bbox="883 1157 1040 1205">+</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th data-bbox="521 1241 618 1302"></th> <th data-bbox="618 1241 776 1302">INC</th> <th data-bbox="776 1241 883 1302">AHG</th> <th data-bbox="883 1241 1040 1302">CC</th> <th data-bbox="1040 1241 1148 1302">Interp</th> <th data-bbox="1148 1241 1370 1302">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1302 618 1352">SC1</td> <td data-bbox="618 1302 776 1352">*ND</td> <td data-bbox="776 1302 883 1352">0 or +</td> <td data-bbox="883 1302 1040 1352">ND or +**</td> <td data-bbox="1040 1302 1148 1451" rowspan="3">Pos</td> <td data-bbox="1148 1302 1370 1451" rowspan="3">P</td> </tr> <tr> <td data-bbox="521 1352 618 1402">SC2</td> <td data-bbox="618 1352 776 1402">*ND</td> <td data-bbox="776 1352 883 1402">0 or +</td> <td data-bbox="883 1352 1040 1402">ND or +**</td> </tr> <tr> <td data-bbox="521 1402 618 1451">SC3</td> <td data-bbox="618 1402 776 1451">*ND</td> <td data-bbox="776 1402 883 1451">0 or +</td> <td data-bbox="883 1402 1040 1451">ND or +**</td> </tr> </tbody> </table> <p>*NOTE: Although a reading is not performed at incubation, hemolysis in noted prior to washing should be documented using "H" in the INC field</p>	Phase	Result	INC	ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND	AHG	0 or +	CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions		INC	AHG	CC	Interp	Sunquest Hot Key	SC1	ND	0	+	Neg	N	SC2	ND	0	+	SC3	ND	0	+		INC	AHG	CC	Interp	Sunquest Hot Key	SC1	*ND	0 or +	ND or +**	Pos	P	SC2	*ND	0 or +	ND or +**	SC3	*ND	0 or +	ND or +**																
	Phase	Result																																																																
	INC	ND or H *If hemolysis is noted after incubation, report using H. If no hemolysis noted, report as ND																																																																
	AHG	0 or +																																																																
	CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions																																																																
		INC	AHG	CC	Interp	Sunquest Hot Key																																																												
	SC1	ND	0	+	Neg	N																																																												
SC2	ND	0	+																																																															
SC3	ND	0	+																																																															
	INC	AHG	CC	Interp	Sunquest Hot Key																																																													
SC1	*ND	0 or +	ND or +**	Pos	P																																																													
SC2	*ND	0 or +	ND or +**																																																															
SC3	*ND	0 or +	ND or +**																																																															
LISS	Record tests as follows: <table border="1"> <thead> <tr> <th data-bbox="521 1589 646 1640">Phase</th> <th data-bbox="646 1589 1429 1640">Result</th> </tr> </thead> <tbody> <tr> <td data-bbox="521 1640 646 1690">INC</td> <td data-bbox="646 1640 1429 1690">0 or +</td> </tr> <tr> <td data-bbox="521 1690 646 1740">AHG</td> <td data-bbox="646 1690 1429 1740">0 or +</td> </tr> <tr> <td data-bbox="521 1740 646 1837">CC</td> <td data-bbox="646 1740 1429 1837">ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions</td> </tr> </tbody> </table>		Phase	Result	INC	0 or +	AHG	0 or +	CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions																																																								
Phase	Result																																																																	
INC	0 or +																																																																	
AHG	0 or +																																																																	
CC	ND or + depending on AHG result **Check Cells are only performed on negative AHG reactions																																																																	

STEP	ACTION																																												
	<p>+ = Any positive reaction, including hemolysis, enter reaction strength observed using appropriate numerical key 0 = Negative reaction ND = Not Done, enter using "N" key</p> <p>EXAMPLES:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">INC</th> <th style="text-align: center;">AHG</th> <th style="text-align: center;">CC</th> <th style="text-align: center;">Interp</th> <th style="text-align: center;">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td>SC1</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">+</td> <td rowspan="3" style="text-align: center;">Neg</td> <td rowspan="3" style="text-align: center;">N</td> </tr> <tr> <td>SC2</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">+</td> </tr> <tr> <td>SC3</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">+</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">INC</th> <th style="text-align: center;">AHG</th> <th style="text-align: center;">CC</th> <th style="text-align: center;">Interp</th> <th style="text-align: center;">Sunquest Hot Key</th> </tr> </thead> <tbody> <tr> <td>SC1</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">ND or +**</td> <td rowspan="3" style="text-align: center;">Pos</td> <td rowspan="3" style="text-align: center;">P</td> </tr> <tr> <td>SC2</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">ND or +**</td> </tr> <tr> <td>SC3</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">0 or +</td> <td style="text-align: center;">ND or +**</td> </tr> </tbody> </table>						INC	AHG	CC	Interp	Sunquest Hot Key	SC1	0	0	+	Neg	N	SC2	0	0	+	SC3	0	0	+		INC	AHG	CC	Interp	Sunquest Hot Key	SC1	0 or +	0 or +	ND or +**	Pos	P	SC2	0 or +	0 or +	ND or +**	SC3	0 or +	0 or +	ND or +**
	INC	AHG	CC	Interp	Sunquest Hot Key																																								
SC1	0	0	+	Neg	N																																								
SC2	0	0	+																																										
SC3	0	0	+																																										
	INC	AHG	CC	Interp	Sunquest Hot Key																																								
SC1	0 or +	0 or +	ND or +**	Pos	P																																								
SC2	0 or +	0 or +	ND or +**																																										
SC3	0 or +	0 or +	ND or +**																																										
3	If antibody screen is		Then																																										
	Positive		Add an ABID (;ABI) to the battery																																										
	Negative		No further action																																										

CALIBRATION:

NA

PROCEDURE NOTES AND LIMITATIONS:

- False positives or false negatives can occur from bacterial or chemical contamination of test materials, inadequate incubation time or temperature, improper centrifugation, inadequate washing of RBCs, improper storage of test materials and omission of test plasma, LISS, PEG or AHG
- False negative may result if an inappropriate plasma-to-cell ratio is used, the antibody's concentration in plasma is below detection level or if the cells selected for testing do not contain the corresponding antigen such as a low frequency antigen (ex. Kpa)
- No single test method can detect all unexpected clinically significant alloantibodies

REFERENCES:

- Technical Manual. Bethesda, MD: AABB Press, current edition
- Standards for Blood Banks and Transfusion Services. Bethesda, MD: AABB Press, current edition

RELATED DOCUMENTS:

- SOP *Ortho Vision Patient and Donor Testing*
- SOP *Ortho Vision Results Management*
- SOP *PeG Indirect Antiglobulin Technique*

SOP LISS Indirect Antiglobulin Technique
SOP Pre-Warm Technique
SOP Specimen Acceptability and Order Receipt
SOP Antibody Identification

UWMC SOP Approval:					
UWMC CLIA Medical Director	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> <tr> <td style="padding-left: 20px;">Andrew Bryan, MD</td> <td></td> </tr> </table>		Date	Andrew Bryan, MD	
	Date				
Andrew Bryan, MD					
Transfusion Service Manager	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> <tr> <td style="padding-left: 20px;">Nina Sen</td> <td></td> </tr> </table>		Date	Nina Sen	
	Date				
Nina Sen					
QA Manager	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> <tr> <td style="padding-left: 20px;">Tayler Reeves</td> <td></td> </tr> </table>		Date	Tayler Reeves	
	Date				
Tayler Reeves					
Transfusion Service Medical Director	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> <tr> <td style="padding-left: 20px;">Monica Pagano, MD</td> <td></td> </tr> </table>		Date	Monica Pagano, MD	
	Date				
Monica Pagano, MD					
UWMC Biennial Review:					
	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> <tr> <td style="border-bottom: 1px solid black; width: 60%;"></td> <td style="border-bottom: 1px solid black; width: 40%; text-align: right;">Date</td> </tr> </table>		Date		Date
	Date				
	Date				

12/15/2020: Updated automated testing to Vision
06/17/2021: Changed frequency of antibody identification for repeat positive antibody screens, added instructions for performing outside history check for newly positive antibody screens