

DOCUMENT TITLE: Routine Testing and Result Management, Ortho Vision™ Analyzer

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Added ABOdbl and ABObaby profiles to Vision. Highlighted other review items

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Medical Care Program
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Purpose	This document provides guidelines for routine testing of patient and donor samples on the Ortho Vision [™] Analyzer and management of test results.
Policy	• Automated testing for patients and donors using the Ortho Vision Analyzer is the preferred method for testing in the SCAL Transfusion Services.
	 When the analyzer is determined to be not suitable for performing testing (malfunction, quality control failure etc.) manual gel and/or manual tube methods are considered the backup methodologies.
	• A bi-directional interface is utilized to download patient test requests and upload the results to the laboratory information system (LIS).
	• If the LIS interface is not functional a manual test request can be inputted into the analyzer.
	• Testing Profiles are set per regional specifications and require a local variance for any changes from the regional specifications document.
	• All samples tested which do not have negative control (ie Type AB or AB Pos) will have a control well run. This is a reflex test on the analyzer, it is the responsibility of the CLS to ensure that the control well is tested and has the expected result (negative).
Limitatio	 Ortho Vision[™] Analyzer Limitations: The analyzer is not designed to automatically report hemolysis as a final result; however, a 'CI' microtube result will be reported for a microtube that cannot be appropriately graded as a result of contrast interference (CI), which is often caused by hemolysis. The user, upon manual review of the result, can enter a comment of hemolysis, if hemolysis is observed. Antigen typing tests with mixed field will be resulted as mixed
See Ortho powerpoint I sent on MF rxns	field 'MF', requiring users to determine the appropriate grading based on patient history and clinical information.

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Limitations Con't • RhD antigen testing in ID-MTS[™] Gel Cards containing Anti-D is performed by direct agglutination; therefore, very weak expressions of D may not be detected and may require the use of a validated antiglobulin test for detection.

When a sample is collected from a recently transfused patient, the

- MF_____1
- potential exists for the transfused red cells to concentrate after centrifugation at the bottom of the sample tube below their autologous cells. The probe aspirates from the bottom of the tube where the transfused cells generally concentrate which may lead to an unexpected result.
- A sample with a very high-titer antibody (>1:1024) when tested for antibody screening may intermittently cause carry-over in the next pipetted sample.
 - Carry-over was not observed in samples with antibody titers of 1:512 or 1:1024 under normal operating conditions.

I<mark>D-MTS[™] Gel card Limitations:</mark>

- Anomalous results may be caused by fresh serum, fibrin, or particulate matter in serum or plasma, or red blood cells that stick to the sides of the microtube.
- Hemolyzed and grossly icteric blood samples may cause difficulty in interpretation, and test results should be used with caution.
- Rouleaux caused by serum or plasma with abnormally high concentrations of protein may infrequently cause difficulties in test interpretation. False positive results or hazy reactions may occur with these samples but are rare.
- See Instructions for Use for addition information regarding Limitations of specified gel card.

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Procedure	Loading Sample with Interfaced Orders from LIS	
	Step	Action
	1.	Touch Samples > then select a ring position into which you want
		to load samples.
		Image: Service Image: Service MTS Vision Max (service) Ortho Clinical Diagnostics Admin SOL (service) Image: Service Service
		Select any additional ring positions into which you want to load samples (you may select all six).
	2.	Load the samples into the rack(s)
	2.	 Verify the caps have been removed from the samples.
		 Place the uncapped samples in the rack(s) with the barcode facing out.
		Place the rack(s) in the Load Station and close the door.
	3.	 The analyzer will perform an inventory and post the samples. For patient samples the analyzer will query the LIS and download the associated tests requested from the LIS. ABO/Rh Antibody Screen Cord Blood ABD DAT(IgG) ABORh Dbl Ck ABORh Baby
		Other patient tests (XM IAT, Antibody ID, Ag typing) and all donor unit confirmation tests are not interfaced tests and are required to be manually ordered on the analyzer. See section below.

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Procedure

Loading Sample with Non-Interfaced Orders from LIS		
Step	Action	
1.	Touch Samples > select sample.	
2.	Touch Create Order.	
3.	Fill in the required details:	
	• Sample ID (if sample was not selected on previous	
	screen)	
	\circ For non-barcoded samples, manually type in	
	twice for the double blind sample ID entry.	
	\circ For barcoded samples, scan the tube with the	
	handheld barcode scanner into the required	
	fields.	
	• Test profiles to be run	
	• Antibody ID (For selected cell panels see below)	
	• UC O POS	
	\circ UC Rh Neg	
	• UC A, B & AB POS	
	• Priority and whether a manual review is required. NOTE: For the XM IAT see below.	
4.	To start processing, touch the Save and Start button.	
(Income) (Income)		
•••••••••	Image: Service state Service state Ortho Clinical Diagnostics Admin SOL and Diagnostics Service state Service state Devices state Devices state	
1d Sample 10*	Single D With Single D Pro	
Int Kample Liquid Tape*		
int Komple (section		
Just Sample ID	q w e r t y u i o p	
And Sumple Laped Type		
2nd Nample Location	a s d f g h j k l	
Resigned Profiles"	Peer seld if lead are been.	
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And deep service		
TEL Loss/Critical		
Testing is	initiated on samples when all test conditions and system	

Testing is initiated on samples when all test conditions and system requirements are met.

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Loading	Samples with Non-Interfaced Orders from LIS-Batch Order
Step	Action
1.	Touch Samples > Create Batch
2.	Touch Sample ID and select the samples to include.
3.	 Fill in the required details: Test profiles to be run Priority and whether a manual review is required.
4.	To start processing, touch the Save and Start button.

Procedure	Program Crossmatch testing (XM IAT)		
	Step	Action	
	1.	Touch Samples > Create Order	
	2.	Touch Sample ID and select the sample ID for the recipient.	
	3.	Select the test profile XM IAT	
		• Fill in additional details such as fluid type.	
	4.	Touch Add Donor Sample once for each donor sample and fill in	
		required fields.	
	5.	Touch Save and Start	
	6	Load samples into the Load Station	
Procedure	Program Selected Cell Panels		
	Step	Action	
	1.	Touch Samples > (select sample)	
		Taugh Cuasta Ouden	

	Touch Create Order
2.	Fill in the required details:
	• Sample ID (if sample was not selected on previous
	screen).
3.	Touch Assign Profiles, choose panel with selected cells to be
	tested.
4.	Touch Disable Assays.
5.	Touch Panel Cells that are NOT being tested, Panel cells that are
	being tested should be in White.
6	Touch Save and Start.

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Procedure	Viewing	Results
	Step	Action
	1.	Touch the Results menu button to view active orders and to
		access the results of completed tests.
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		Mode Allow Bit Office Filege instrument simulation Diright in the office Diright in the office <thdit in="" office<="" th="" the=""> Diright in the offic</thdit>
		Sea Downloads 2000 1000 Sealing
		To view images of the completed test:
		 Touch the result you want to view
		 Touch the Show Details button.
		The image and graded result will display on the screen.
	2.	From this screen in Step 1 select:
		• Accept or reject the result.
		• Change the type of image viewed (front or back, color or
		grayscale).Edit the column grade or result
		 Enter comment when editing a result grade
		 Reviewed, accepted results should automatically archive
	3.	To review indeterminate results or other results flagged for
		manual review:
		Touch Resources>Manual Load/Review
		• Use the Load/Unload button to retrieve cards from the
		Dual Purpose Drawer.

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Procedure	Viewing Results	
Con't	Step	Action
	4.	 To Change Card View View either side of tested cards. Touch the Results menu button Select a result and touch the Show Details action button. The Show Details screen is displayed with an image of the card. Touch the Change to Back action button. The reverse side of the card is displayed and the
		button becomes Change to Front.
	5.	 Change Image to Color or Grayscale The card imaged can be viewed in color or in grayscale. Touch the Results menu button. Select a result and touch the Show Details action button. Touch the Change to Color button. The color image is displayed, and the button becomes Change to Grayscale.
	6	 Zoom the Image Enlarged column images can be viewed in the Results— Details screen. Touch the Results menu button. Select a result and touch the Show Details action button. The Details screen is displayed with an image of the card. Touch the column you wish to see enlarged. An enlarged view of the column is displayed in color and in grayscale. This view also shows both the front and back sides of the column. Touch Back to return to the Details view.

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Edit a Co	olumn Grade	
Step	Action	
1.	Touch the Results menu button.	
2.	Select a sample ID and touch the Show Details action button.	
3.	Touch the Edit Grades action button.	
4.	A wizard opens, complete the following:	
	Select the card with the grade you wish to edit.	
	• If scanning the barcode is required, scan the barcode for the card.	
	• If scanning the barcode is not required, and there is more than one card for this test, select the image of the card from those displayed.	
	• If scanning the barcode is not required, and there is only one card for this test, this step is omitted.	
5.	Touch the grade for the column you wish to edit.	
	• Alternative grades are displayed.	
	• Select the grade you want for that column.	
	An asterisk indicated the edit.	
6.	Touch Next to add a comment.	
	Comment "VI OK" to document Visual Inspection OK	
	• Add additional comments as needed (dual population, etc.)	
7.	Touch Next and enter your password and touch Confirm	
	Password.	

Procedure	Edit Results-Restricted to Key Operator		
	Step	Action	
	1.	Touch the Results menu button.	
	2.	Select the results you wish to edit and touch the Show Details	
		action button.	
	3.	Touch the Edit Results action button.	
	4.	A three-screen wizard opens., complete the following:	
		• Select the result you wish to edit, select a new result and touch Next.	
		• Enter a comment describing your change and touch Next.	
		• Enter your password and touch Confirm Password.	
	5.	The edit is reflected in the Results—Details screen, marked with	
		an asterisk indicating a modified result.	

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Adding o	comment, accept, reject results		
Step	Action		
1.	Adding a Comment to a Result		
	• Touch the Results menu button and select a result.		
	• Touch Show Details. The card image appears.		
	Touch Show Details again, and then touch Add		
	Comment.		
	Enter your comment and touch Save		
2.	Accept Results		
	Results requiring manual review must be accepted or rejected. Only accepted results can be sent to the LIS.		
	• Touch the Results menu button, select a result. Review		
	the result prior to accepting.		
	• Select a result and touch the Show Details action button.		
	• Touch the Accept Result action button.		
	When a result has been accepted, the status will change to		
	"Accepted" in the status a window on the Details screen.		
	Note: Accepted results cannot be edited.		
3.	Reject Results		
	Results that are not automatically accepted must be reviewed		
	before they can be accepted or rejected.		
	• Touch the Results menu button.		
	• Touch a row to select a test.		
	• Touch the Show Details action button. Review the results		
	before rejecting the result.		
	• Touch the Reject Result action button		
	The "Rejected Result" icon appears next to this result on the		
	Details screen. Rejected results can still be edited or accepted.		

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Step	Action		
1.	Search Results		
	• Touch the Results menu button.		
	• Touch Search.		
	• Enter the search term and touch Search. Some examples of search terms you can enter include: Patient ID, Sample ID, Profile name, etc.		
	The items matching your search are displayed.		
	• Touch the Results link to access that information.		
	• Touch New Search icon to repeat the operation with new		
	search term.		
	• Touch Close Action button to exit from Search function.		
2.	Print a Result Report		
	• Touch the Show Order Report button.		
	• The report is displayed, and the Print button becomes available.		
	• Touch the Print button		
	• A printed copy of the report is generated.		
3.	Send Results to the LIS		
	Results must be accepted before you can send them to the LIS.		
	• Touch the Results menu button.		
	• Select a result and touch the Show Details action button.		
	• Touch the Send to LIS action button.		