Principle	The Sysmex WAM software application is a hematology information management system that offers a comprehensive analyzer and result management tool. Sysmex WAM consolidates data from multiple analyzers, performs complex rule-based functions and then communicates this information to the LIS. Sysmex WAM displays state-of the-art graphics and images to aid the physician in results review and data interpretation.
	 The Sysmex WAM software maximizes the efficiency of the results handling process by providing a single window to simultaneously manage multiple analyzer data, present this data to the operator and provide keyboard functionality to record cell morphology. Sysmex WAM offers a sophisticated Rerun Manager screen that allows the operator to review subsequent rerupt on one datailed across
	 Sysmex WAM provides the ability to display previous patient results with the current results on the Main Result Validation screen. The ability to store previous patient results within the WAM database enables the software to perform delta checking for additional rule application and provide valuable information to the operator to validate current results.
	• Sysmex WAM offers the ability for the software to automatically release results to the LIS that meet the customer-defined rule criteria. The results can be auto validated without further operator intervention to improve laboratory productivity and reduce the amount of time spent reviewing normal data.
	 Sysmex WAM provides a sophisticated rules engine that allows real- time data checking based upon test results, analyzer flags and/or user selected rule definitions that can automatically generate a test rerun or allow the addition of reflex testing.
Operating Procedure	A. Start up
i i ooodal o	To access the Sysmex WAM software application, proceed as follows:
	 Turn on the Sysmex WAM PC workstation and allow the software sign on screen to load. On the front page, click on the appropriate icon to be used for your work session:
	 Sysmex WAM v5.0– this is the production version of your system. Sysmex WAM v5.0 (Test) – this is your test system.
	3. The Sysmex WAM Production or test software application will launch for

immediate use.

Operating Procedure, continued

B. Log On

To launch the Sysmex WAM **Production** software application, double-click on the Sysmex WAM **Production** icon. The **Welcome Dialogue** box appears prompting you to enter either your pre-assigned User Logon or User ID and Password.



Figure 1: Sysmex WAM Production Icon

Proceed as follows:

- 1 Click on the Sysmex WAM Desktop icon to launch the application.
- 2 Enter your **User ID –** use your NUID. Press tab.



Figure 2: Sysmex WAM Production Icon

- 3 Enter your password, and then click OK. Your password must contain at least one letter, one number, and one keyboard character. (!,@,#,\$,%,^,&,*) It must be at least three characters long by default.
- 4 Click OK.

C. Menu Selection

To review results for manual validation, proceed to section D.



Figure 3: Sysmex WAM Main Menu Screen

Operating
Procedure
continued

D. Manual Validation

- 1 From the Sysmex WAM Main Menu screen, select the **Sample Explorer** icon and then the **Validate Results** radio button.
- 2 In the **Validation Selection** screen, enter search criteria to retrieve the Sample IDs that require manual validation.

Note: Only those Sample IDs with <u>at least one test result at status 1</u> will be retrieved for validation. If a Sample ID is in a rerun status or all results are pending (status 0), the Sample ID <u>will not be retrieved</u> for result review and approval

3 Select and/or enter one or more criteria to retrieve Sample IDs ready for result review and approval.



Figure 4: Validation Selection Screen

- a. Default: Search for all orders requiring validation:
 - Select: All Types default (Test/Profile).
 - Click the **Search** icon

Note: All pending Sample IDs with at least one result available to be validated (status 1) will be retrieved. An SID list created with these criteria on the **Result Validation** screen will automatically update with this selection.

b. Search by specific Sample ID:

- Enter Sample ID.
- Select from Test/Profile drop down box.
- Click the Search icon.
- The SID list will *not* update.

Operating	C.	Searc	h l
Procedure, continued		•	E

- c. Search by Patient Demographic Specific Filter Criteria:
 - Enter information in one or more fields to retrieve specific Sample IDs.
 - Select from Test/Profile drop down box.
 - Click the Search icon.
 - The SID list will *not* update.

d. Search by Sample Specific Filter Criteria:

- Enter information in one or more fields to retrieve specific Sample IDs.
- Select from Test/Profile drop down box.
- Click the Search icon.
- The SID list will *not* update.
- 4 The **Result Validation** screen will display for selection of Sample IDs and review of results.
 - a. SID List

Sample IDs are displayed at the far left of the screen, in priority order with **Critical** samples first and STAT samples second. All Sample IDs appear in alphanumeric order within category. Click a Sample ID to display all applicable information. You can approve the results and then click the next Sample ID in the list, or select any Sample ID to access the Sample ID.

Priority	Color Code
Critical	Maroon background, white lettering
STAT	Red background, white lettering
Normal Priority	White background, blue lettering
Blue indicator	A blue indicator to the left of the Sample ID indicates that the SID is 'unregistered.'

- The software performs a default scan of the database every 2 minutes to search for Sample IDs that qualify as status 1 to add to or remove from (fully validated) the Sample ID list in the **Result Validation** screen.
- The Sample IDs are added to the list in order of priority of Critical and STAT, and then by Sample ID sequence number (alphanumeric sort).
- You can update the Sample ID list before the two-minute update by clicking the **Refresh** icon.

Operating Procedure , continued	 Sample IDs that are fully validated are removed from the list every two minutes or on manual refresh. All Unregistered Sample IDs with pending orders will remain on the list until the order is received from the LIS.
---	--

b. Result Color Coding

Results are color-coded to indicate their status:

- Critical Results:
 - I (lower case I) = Yellow letters with a blue background
 - h (lower case h) = Yellow letters with a red background
 - L (very low) = Light Blue letters with a dark blue background
 - H (very high) = Black letters with a dark red background
- **Delta Value:** All delta values that have triggered a delta rule are blue letters, green background.

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Figure 5: Result Validation Screen

c. Unregistered Order Color Coding

All Unregistered Sample IDs will display a "U" highlighted in blue on the patient demographics screen to identify the order as unregistered.

- Select a Sample ID from the SID list by clicking on the specific SID. Use the up/down slide bar to review more sample ID's if available.
- Review the Operator Alerts for instructions on how to process the specimen

Operating Procedure,	5	Se	elect a
continued		٠	Click t
		•	In the

- 5 Select a rerun proceed as follows:
 - Click the **Rerun** menu tab.
 - In the Rerun Manager screen, select the run.
 - Click the Column Header (RUN 1 or RUN 2 etc) of the results that you wish to report.
 - Click the **Result Validation** tab to accept the run selected and return to result validation.
- 6 Add Test Level Coded Comment proceed as follows:
 - In the **Result Validation** screen, double click in the COM field for a specific parameter.
 - The Coded Comment screen will display.
 - With the cursor, check the box next to the coded comment(s). The coded comments(s) will display in the **Current Content** box at the bottom of the screen. Press the **Save** icon.
 - You will be returned to the **Result Validation** screen.
 - The comment code will be displayed on the **Result Validation** screen with the 'coded comment' e.g., CAL. If there is more than one coded comment, they will be separated by#| [pipe] e.g. #CAL#|RNV.
- 7 Add Test Level Free Text Comment proceed as follows:
 - In the **Result Validation** screen, click in the **Com** field for a specific parameter.
 - Type the free text in the **Com** field.
- 8 Add Internal or Report Order Comment proceed as follows:
 - In the **Result Validation** screen, click the **Comments** icon to display the order **Comment** screen.
 - Select a radio button or Internal or Report comment type.
 - Double click in the **Code** field and select one or more comments from the list. Press the **OK** button.
 - Click the **Save** button and then **Quit** to return to the **Result Validation** screen.
- 9 Perform a Manual Differential and Morphology proceed as follows:
 - From the **Result Validation** screen, select the **Manual Differential** tab.

Operating Procedure , continued	 Select the Counter type if you are assigned to more than one counter from the menu at the bottom right of the screen.
	 Start counting cells types as you view them under the microscope.
	 Press the key that represents the cell type e.g., 3 key = NEUT. 2 = LYMP.
	 When the number of cell types reaches 100, the keyboard will lock from adding more cells.
	 Click Result Validation tab screen or select the Morphology tab. Proceed to step f.
	10 In the Morphology screen – proceed as follows:
	 Double click in the appropriate row that represents the morph comment code.
	The Coded Comment screen will display.
	 Click the appropriate row that represents the result type (e.g., 1+, 2+ 3, + or few, moderate, many).
	 Click the Save button to return to the Morphology screen.
	 Continue to add morphology comments as appropriate.
	 Click the Result Validation tab to return to the Result Validation screen.
	11 Click the Save icon to execute all rules and calculations before validating results.
	12 In the Result Validation screen, the Manual Differential and Morphology comments will display at unvalidated (status 1). To approve results, press one of the following icons from the top menu to complete the

- Validate All Click the Validate All icon. This will validate all available results on the Result Validation screen.
- Validate Selection press the Sel button in the Instrument window or select individual test results for result approval and then click on the Validation Selection icon.

13 Critical Result Documentation screen:

validation (approval) process:

When one of the Validation icons in the top menu is selected in step 10 (Validate All, Validate CBC, Validate Selection). This screen will display if you have critical results to validate for documentation of the call.

 Operating
 Enter the following information to record details of the Critical Result documentation:

 continued
 • Call To/Loc: Enter the person that was contacted.

 • Read back: Check the "Read Back" box to document the read back

- **Comment:** Enter a free text comment OR select from the drop-down box of available coded comments.
- Click the **Save** icon.

comment.

- The Result Validation screen will display.
- The Sample ID will move off the SID list if all tests have been validated and/or a rerun is generated as the result of a rule trigger leaving no tests at a 'to be validated' status.
- After the results are available from the analyzer for the rerun, the Sample ID will display on the SID list ready for validation actions.

DailyThe following maintenance is required to be performed daily to resolve
barcode errors and orders with unregistered results.

Barcode Errors:

Check the **Barcode Read Errors** screen periodically to remove samples with barcode errors. The Sample ID barcodes can be removed from the **Barcode Read Errors** screen by performing the following:

- 1 Select the **Barcode Errors** icon from the fast menu or main menu.
- 2 Select the **Site** code from the drop-down box.
- 3 Use Selection Criteria to further filter your selection.
- 4 Click the **Search** icon.
- 5 Check individual box for desired selection or press **Sel** button to select all sample ID's. Click the **Print** icon and take printed list to instrument.
- 6 Correct the **Sample ID** at the instrument and resend the results to the host (Sysmex WAM).
- 7 In the **Barcode Errors** screen, select the Sample IDs that have been corrected or click the **Sel** button to select all records.
- 8 Click the **Delete** icon to remove the Sample IDs from the list. Continue until completed.
- 9 Click the **Quit** icon to return to the main menu.

Daily Maintenance, continued

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Figure 6: Barcode Errors Screen

Unregistered Results:

Check the status of orders in the **Unregistered** screen periodically. The Sample IDs should be researched to determine why the order has not been received in Sysmex WAM. <u>If a Sample ID order without results will never be</u> <u>received, the Sample ID should be removed from the **Unregistered** list. The Sample ID can be deleted from the **Unregistered** Sample ID list if an order will never be received.</u>

Proceed as follows to remove the Sample ID order from the **Unregistered** Sample ID list:

- 1 Select the icon from the fast menu or main menu.
- 2 In the **Unregistered Result** screen, enter Sample ID or other selection criteria and click the **Search** icon.
- 3 Review the list and determine why the order has not been received into Sysmex WAM.
- 4 If order exists in LIS, re-transmit order from the LIS to Sysmex WAM if LIS can accept retransmission.
- 5 For Sample IDs with no order in LIS that requires deletion, click the **Delete Order** icon to remove the Sample ID from the Unregistered list.
- 6 A warning message will confirm the deletion.
- 7 Click the Quit icon to return to the main menu.

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Figure 7: Unregistered Result Screen

- **Calculations** The following are the configurable standard calculations that are performed on Sysmex WAM.
 - WBC/NRBC Correction calculation (X-Series Analyzers Only)
 - NRBCMI correction correction of the WBC based on the NRBCMI from the manual differential
 - Manual Differential Absolute calculations The standard calculation is per the following for the common cell types: NEUT, LYMPH, MONO, BASO, and EOS etc.
 - Manual diff cell type% x WBC/100 = Absolute Number (NEUT% x WBC/100) = NEUTAB
 - ANC (Absolute Neutrophil Count) calculation
 - ANC = WBC x (NEUT + BAND) /100
 - ALC (Absolute Lymphocyte Count) calculation
 - ALC = WBC x (LYMPH+ATYLY) /100

ReportingSysmex WAM transmits test results based on the customer selection via theResultsSysmex WAM settings document. Test results are transmitted via the standard
Sysmex WAM HL7 or ASTM requirements.

Results are transmitted to the LIS based on the following:

- Auto-validation No rules or actions required. The test results are marked as validated and transmitted to the LIS as 'completed.' The following data is transmitted with the results:
 - Analyzer ID
 - User: 6000 or 9000
- Manual Validation If a rule is triggered and/or an action is required, the Sample ID is required to be manually validated in the Result Validation screen. When the user approves the results, the following data is transmitted with the test result:
 - Method Code MDIFF
 - User ID
 - Free text or coded comment code or coded comment either as a description (decoded) or coded comment based on the site configuration

Trouble-
shootingThe following are common Sysmex WAM issues and recommended actions to
resolution.

Patient Lock Record Issue: Patient File Lock

Probable Cause	 More than one user trying to perform activities on the same Sample ID at the same time or,
	 User has walked away from PC workstation and suspended actions and another user is trying to access Sample ID or,
	 There was a power outage or shut down of the WAM workstation while on a patient record.
Corrective	1) One user must log out of screen that is accessing Sample ID.
Action	2) Wait for Sample ID file to unlock.
	3) Wait for Sample ID to unlock
	 Notify site administrator to unlock Sample ID via the Record Locking Management screen. Refer to the Sysmex WAM v5.0 User Manual for instructions.

Unregistered Results

Issue: Results cannot be validated in the Result Validation screen

Probable	1) No order was received from LIS.
Cause	2) Sample ID was entered into analyzer.
Corrective	1) Transmit order from LIS for 1 and 2.
Action	 Return to Result Validation screen to validate (approve) results. If no validation is required, results are released automatically upon receiving LIS order.

Sample ID Barcode Errors

Issue: Too many sample ID barcode errors on Sysmex WAM

Probable Cause	 Specimen label problem Barcode reader mis-alignment Barcode reader configuration issues on analyzer or device
Corrective Action	 Check barcode labels on specimen container tubes for any cracking, stickiness or more than two labels. Correct labelling problem.
	 Check barcode reader on device or analyzer for alignment issues and re-align.
	 Check barcode reader on device or analyzer and contact Sysmex.

Troubleshooting, continued

Rules Conflicts

Issue: Rule is not working

Probable Cause	 Specific rule did not trigger as expected – Rule conflict. Rule did not perform action as expected – Rule overlapping.
Corrective Action	 A rule conflict has occurred and one rule has priority over the other. Rules are overlapping and the rule with the most specific actions will be performed.
	 Contact site administrator to check rule conflict via the Rule Conflict checker screen. NOTE: Contact Sysmex if you are unable to resolve the issue.

No Sample ID Orders

Issue: Order or Orders are not being transmitted from LIS to Sysmex WAM

Probable	1) LIS did not receive order.
Cause	2) LIS encountered error in transmitting error from LIS.
	3) Configuration issue with LIS for download order code.
	4) Problem with the LIS interface communication.
Corrective	 Check LIS for receipt of order in system.
Action	2) Check LIS for transmission confirmation of order to Sysmex WAM. Check for any interface errors.
	3) Check order code in LIS to ensure this is an order code that Sysmex WAM is expecting.
	 Click LIS Interface icon on the Alert bar. The Process Monitor screen will display. Click the LIS process. Press the START icon to start the LIS interface.
	NOTE : Contact Sysmex if you are unable to resolve the issue.

No Results on Result Validation Screen

Issue: Order is not available on Result Validation Screen when searching by Criteria 2 and 3 in Validation Selection screen

Probable Cause	 LIS did not transmit order. No results from analyzer – at status 0
	 Rerun pending and no results from analyzer – order set to status 0.
Corrective Action	 Check LIS for receipt of order and/or transmission errors in sending order to Sysmex WAM.
	2) Sample ID not run on analyzer yet.
	3) Rerun not performed on Sample ID yet.

Rerun Block

Issue: Rerun does not display on rerun screen

shooting, continued

Trouble-

Probable	 Rule was not triggered for rerun. User placed specimen on analyzer without ordering a rerun
Cause	via the Action Box in the Result Validation screen.
Corrective	 Check rule definitions. Software prevents display of run if not ordered via a rule
Action	and/or user adds rerun via the Result Validation screen.

Refresh Screen

Issue: Screen does not display full details when entered into the Result Validation screen from Validation Selection

Probable Cause	 Screen did not fully load on screen upon initial entry. Screen did not fully load between screens.
Corrective Action	 Press the Refresh icon on the Result Validation screen. Contact Sysmex if problem persists.

Unable to Query for Orders

Issue: Unable to Query for Orders on Query Order or Validation Selection Screen

Probable Cause	1) LIS not sending orders to Sysmex WAM.
	2) User is logged into the wrong site per access code for multi- site WAM.
Corrective Action	 Check with LIS for issues with transmitting orders. Verity LIS communication in the Process Monitor.
	 2) Check to see if user is logged into correct site per access code. Change Site by selecting the Log Off from the top menu and selecting Change Site. Note: Contact Sysmex to investigate the issue.

LIS Connection

Issue: No new orders being processed by Sysmex WAM

Probable Cause	1) LIS not sending orders to Sysmex WAM.
	 LIS connection issue with Sysmex WAM. Alert pop-up indicates that there is LIS interface issue.
Corrective Action	1) Check with LIS for issues with transmitting orders.
	 2) Click LIS Interface icon on the Alert bar. The Process Monitor screen will display. Click the LIS process. Press the START icon to start the LIS interface. Note: Contact Sysmex to investigate the issue.

Troubleshooting, continued

Analyzer/Device Connection

Issue: No new results or information being processed by Sysmex WAM

Probable Cause	 Analyzer or device not sending results or information to Sysmex WAM.
	 Analyzer or device connection issue with Sysmex WAM. Alert pop-up indicates that there is LIS interface issue.
Corrective Action	1) Check analyzer or devices for operational errors.
	 Click Instrument Interface icon on the Alert bar. The Process Monitor screen will display. Click the appropriate analyzer process. Press the START icon to start the analyzer process.
	Note: Contact Sysmex to investigate the issue.

Scattergrams/Histograms Not Displaying

Issue: No graphical images on Result Validation Screen

Probable Cause	 No Scattergrams or Histograms displaying on Result Validation screen upon initial Sample ID review – graphical integration problem. Analyzer software update issue.
	3) Image integration issue.
Corrective Action	Contact Sysmex for all probable causes above.

WAM ServerSwitchoverThe Sysmex WAM software application resides in 2 servers, a primary and backup server. It is setup so that if the primary server fails (Fig. 8, server down), then the backup (secondary) server will turn on.

-	
Printer	HOST
GP/LP 0	WAM

Figure 8: Wam Connection Status is RED. This mean that WAM server is down.

WAM Server Switchover, continued

Steps to take:

1. You will see the following message (see Fig. 9) pop up on the XN IPU. Click [OK]. This will initiate the backup server to connect. Initialization will happen in the background.



Figure 9: TCP/IP Connection Error Screen

2. Connection for the SP-50 Slidemaker will be lost also. It will be indicated by the red background of the PC icon. (See Fig. 10 below)

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STAIN-0000001	07/22/2018	12:40:36	07/22/201	8 12:53	
STAIN-0000002	07/22/2018	12:44:10	07/22/201	8 12:54	
STAIN-0000001	07/25/2018	08:30:51	07/25/201	8 08:40	
sde2	07/25/2018	10:13:47	07/25/201	8 10:16	
sde2	07/25/2018	10:13:47	07/25/201	8 10:17	
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Figure 10: Sp-50 Communication Error Screen

3. Once the WAM server has re-initialized successfully, the SP-50 connection will be on again.

Non-
Controlled
DocumentsThe following non-controlled documents support this procedure:1. Sysmex WAM v5.0 User Manual Hematology
2. Sysmex WAM v5.0 Hematology Quick Guide

- 3. Sysmex WAM ASTM IF Specs
- 4. Sysmex WAM HL7 IF Specs