



# KAISER PERMANENTE®

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# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

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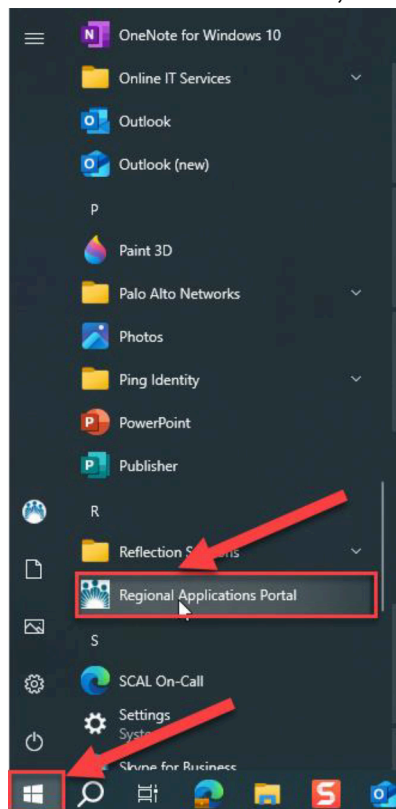
## 1. LOGGING IN

- a. From the desktop, locate the Regional Application Portal icon and double-click the icon.



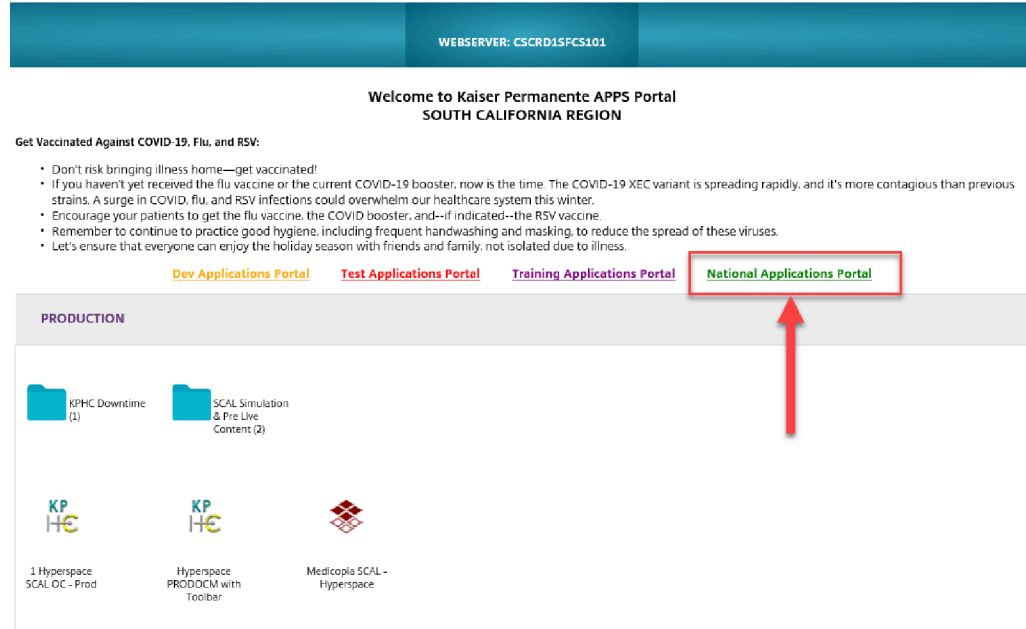
OR

Click on the start menu, then select the Regional Applications Portal.

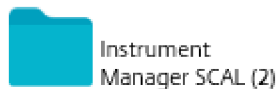


- b. Click on the National Applications Portal link.

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c. Double-click on the Instrument Manager SCAL (2) icon.



d. Double-click on the Validation (2) icon.



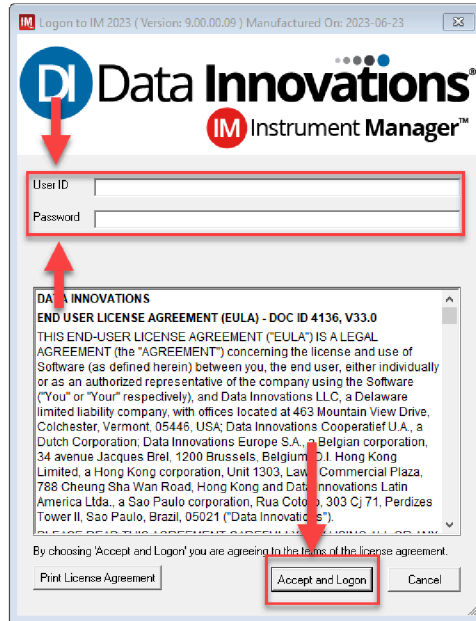
e. Double-click on the Instrument Manager SCAL icon.



Instrument  
Manager\_SCAL


f. Log in using your NUID for your User ID and your window password for the password. Click the “Accept and Logon” button.

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# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

## 2. INSTRUMENT MANAGER OVERVIEW

 Instrument Manager by Data Innovations LLC

System Configuration Diagnostics Security Specimen Management SSR DC SR MM MA Laboratory Intelligence Reports Window Help Launch DI Gateway

- a. Main Menu
  - System
  - Configuration
  - Diagnostics
  - Security
  - Specimen Management
  - Reports
  - Window
  - Help
  - Launch DI Gateway

b. System

Logon	It takes you back to the Login window
Logoff	Logoff user from the Instrument Manager
Change Language Locale	Change the IM Locale to other departments if applicable ( <b>Keep at Kaiser Southern California Hematology</b> )
Status	Opens a status screen showing interfaces/instrument statuses
Shutdown	<b>Shutdown the interface of IM (Do not Shutdown)</b>
Status of Instrument Manager Session	Show the status of the IM session that is currently running.
Triggered Notifier Events	
Exit	Exit the IM window

- c. Configuration  
**Changes the configuration, setting, and rules of the IM (Super Users & DI operators ONLY)**
- d. Diagnostics

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

Communication Trace	
List Communications Trace Status for all Connection	
Loopback Test	
Specimen Event Log	
System Log	

e. Security

System Setup	
Users and Group	
Reset all form layout.	

f. Specimen Management

SM Workspace	
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g. Reports

**Reports (Super Users & DI operators ONLY)**

h. Window

All the options contained in this menu correspond to customizing how your window will look.

i. Help

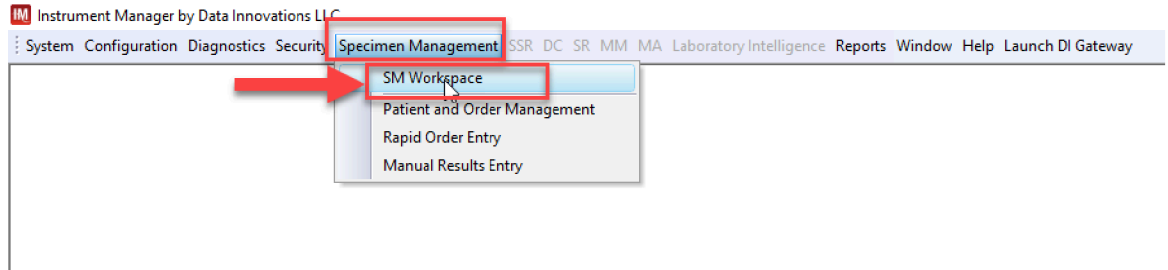
This menu contains Help resources such as the user guide and information about the instrument manager

j. Launch DI Gateway

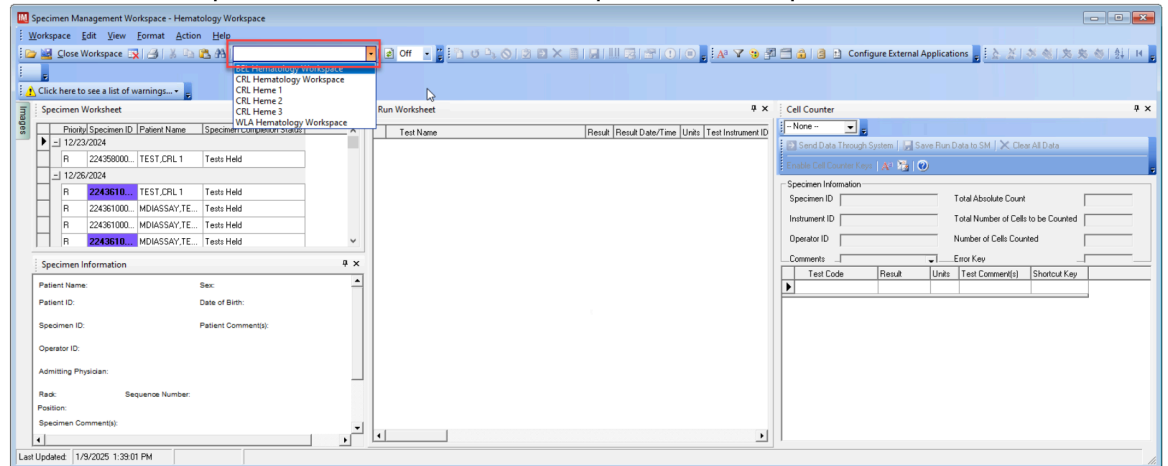
# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

## 3. SPECIMEN MANAGEMENT WORKSPACE

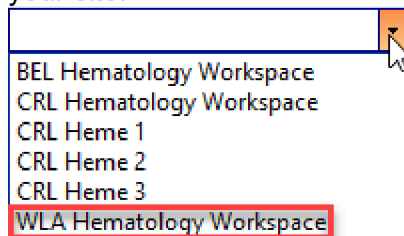
- a. From the main menu, click on Specimen Management and select the SM Workspace



- b. Click on the drop-down menu once the workspace window opens.

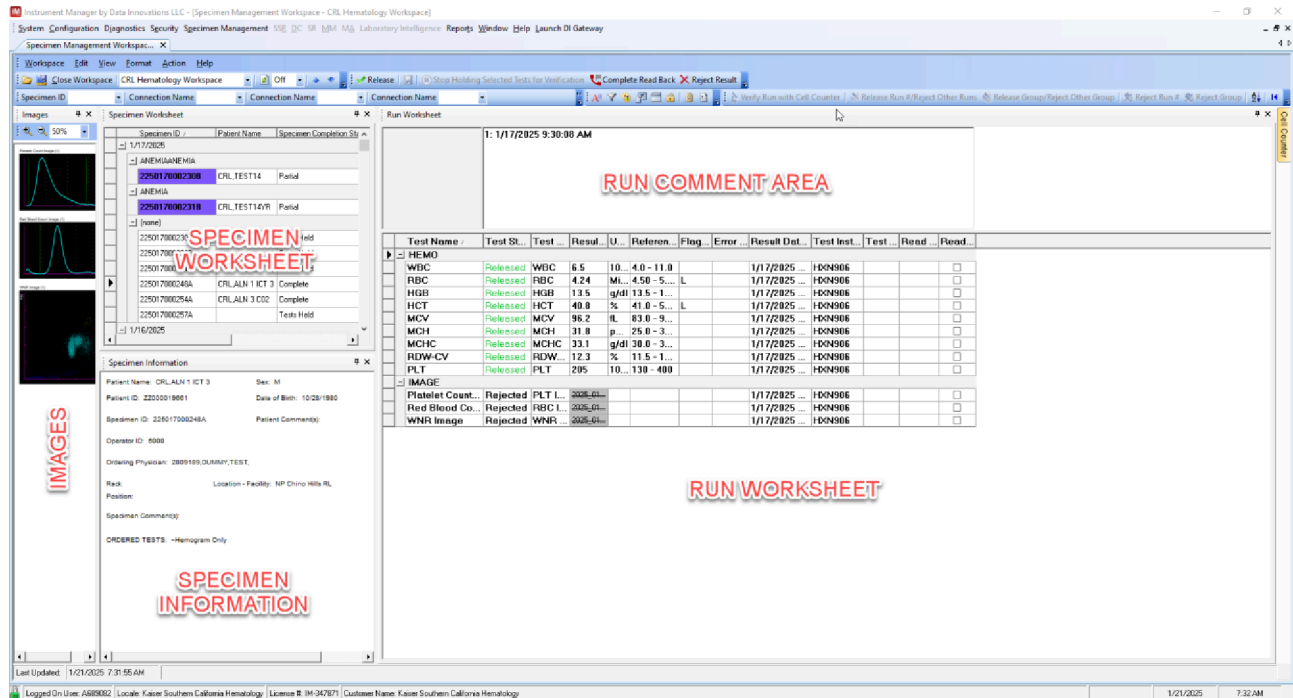


- c. Select from the drop-down menu the instrument workspace corresponding to your site.



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## 4. SM WORKSPACE OVERVIEW



- IMAGES**  
 This area will show the histogram associated with the sample ID selected.
- SPECIMEN WORKSHEET**  
 This pane will display all the sample IDs based on the specimen status (Test Held, Partial, or Completed). It also displays the Order priority (STAT, Routine), Specimen ID, Patient Name, and date.
- SPECIMEN INFORMATION**  
 This pane will display the patient demographic of the patient selected. Information includes Patient Name, Patient ID (MRN), Specimen ID, Operator ID, Sex, Date of Birth, Patient Comments, Ordering Physician, Rack and Position
- RUN COMMENT AREA**  
 The Run Comment area of the Run Worksheet will display flags and rule comments for the displayed specimen. Run Comments alerts the user that criteria have been met to hold a specimen in the workspace and that further work may be needed by the user before release depending on the flag or rule that triggered for the specimen. (OPAlert)

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**e. RUN WORKSHEET**

This pane will display the test results, different runs, release or rejected results, appropriate flags, operator instructions, and information on troubleshooting the specimen

**f. COLOR CODING**

Description	Data Element	Operator	Criteria	Format Type	Field to Format	Color Scheme	Value
Rejected	Test Status	is equal to	'Rejected'	Cell	Result	Rejected	N/A
Cancelled	Test Status	is equal to	'Cancelled'	Cell	Result	Cancelled	N/A
Critical Result	Flag	contains	'LL' or 'HH'	Cell	Result	Critical Results	N/A
Critical SID	Flag	contains	'LL' or 'HH'	Cell	Specimen ID	Critical Results	N/A
Safe Zone	Run Comment(s)	contains	'CHECK CRITICAL F	Row		Critical Results	N/A
ANEMIA Orders	ORDERED TEST	contains	'ANEMIA'	Cell	Specimen ID	ANEMIA Orders	N/A
ANEMIA Orders	Critical Flag	contains	'ANEMIA'	Cell	Specimen ID	ANEMIA Orders	N/A
STAT Priority	Priority	is equal to	'S'	Cell	Specimen ID	Priority = Stat	N/A
Delta	Flag	contains	'D'	Cell	Result	Delta	N/A
Test Held	Test Status	is equal to	'Held for Verification'	Cell	Test Status	Test Held	N/A
Test Released	Test Status	is equal to	'Released'	Cell	Test Status	Test released	N/A
MCHC > 37.5	Hold Test Flag	contains	'INTEGRITY'	Cell	Result	MCHC/HCT Result	N/A
HCT > 55	Hold Test Flag	contains	'HIGH HCT'	Cell	Result	MCHC/HCT Result	N/A
Unregistered Sample	Run Comment(s)	contains	'AGE AND/OR SEX	Cell	Specimen ID	Unregistered Sample	N/A



# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

The screenshot displays the Data Innovation Instrument Manager interface. At the top, two run identifiers are shown: 'Run 1 (Result (1))' and 'Run 2 (Result (2))'. Below these is a table of test results. A context menu is open over the 'NRBC %' result, which is highlighted in blue. The menu includes options like 'Verify Run with Cell Counter', 'Reject Run 1', 'Reject DIFF', and 'AutoDiff'. A red arrow points to the 'AutoDiff' option with the text 'AutoDiff'. Another red arrow points to the 'Cellavision Differential' section of the table, which contains several rows with values like 'EO-% 0', 'EO-# 0.00', 'BA-% 0.29', etc. The table columns include Test Name, Test St., Test, Result (1), Result (2), U..., Referen..., Flag..., and Error.

Test Name	Test St.	Test	Result (1)	Result (2)	U...	Referen...	Flag...	Error
HEMO								
WBC	Released	WBC	31.2					
RBC	Released	RBC	4.87					
HGB	Released	HGB	13.8					
HCT	Released	HCT	45.9					
MCV	Released	MCV	94.3					
MCH	Released	MCH	28.3					
MCHC	Released	MCHC	30.1					
RDW-CV	Released	RDW...	14.1					
PLT	Released	PLT	244					
DIFF								
NRBC %	Rejected	NRB...	0.1					
IG %	Rejected	IGRE	0.8					
IG #	Rejected	IGAB	0.09					
Eos #	Rejected	EOSI...	0.23					
Eos %	Rejected	EOSI...	0.2					
EO-%								
EO-#								
Baso #	Rejected	BASO...	0.09					
Mono #	Rejected	MON...	0.90					
Baso %	Rejected	BASO...	0.3					
Neut %	Rejected	NEU...	15.0					
Lymph #	Rejected	LYMP...	26.18					
Mono %	Rejected	MON...	2.9					
Neut #	Rejected	NEU...	4.67					
Lymph %	Rejected	LYMP...	80.8					
MORPH								
TEARD								
TARG								
TOXG								
ACAN								

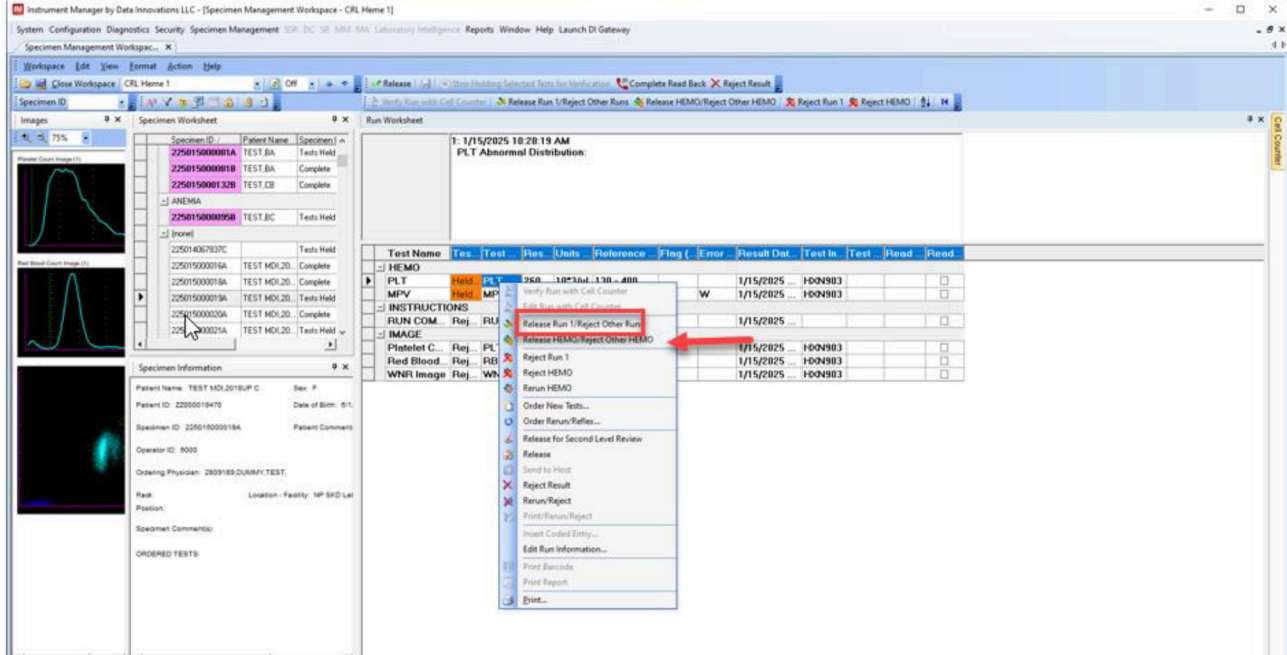
Using the IM Cell Counter to perform a manual differential. If a manual differential were performed in the IM Cell Counter, you would want to reject the auto diff from the CBC run that you want to release so that the manual differential is released to Cerner.

## 6. Rejecting and Releasing results:

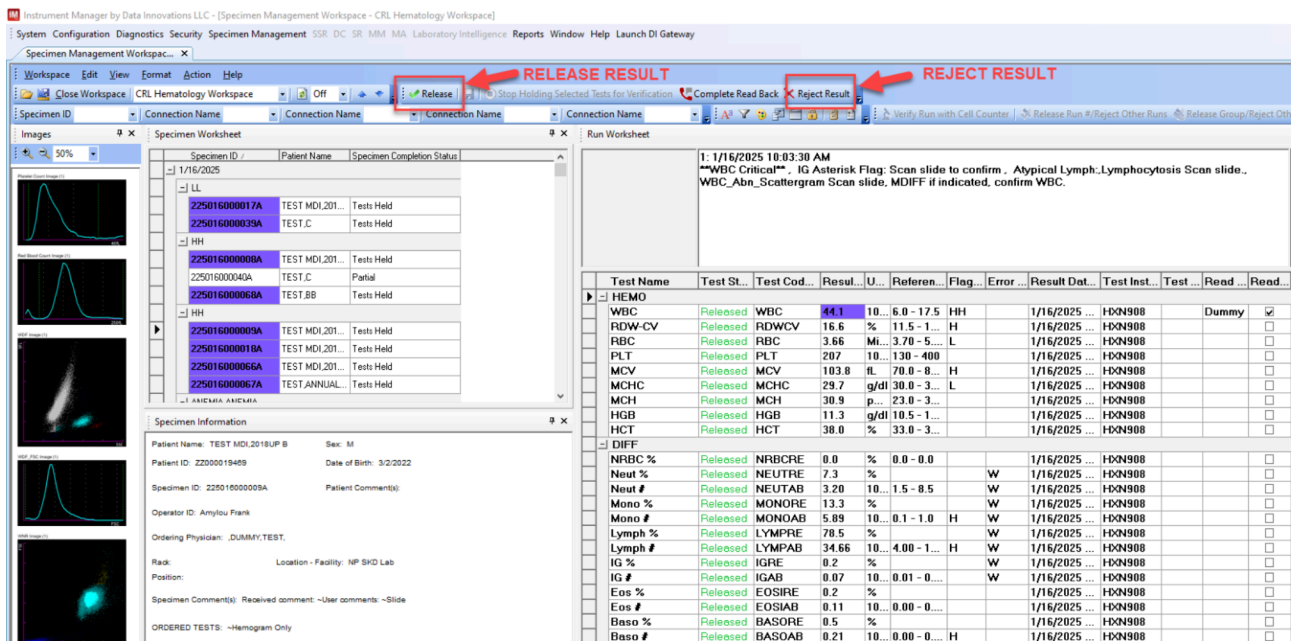
There are different ways to reject or release results in the Specimen Workspace.

- a. You can right-click on an individual result or test group and select reject or release from the menu.

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b. You can select an individual result or test group and select the icons in the toolbar to reject or release.



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- c. You can release or reject an entire run using the icons in the toolbar or by right-clicking on the run and selecting Release Run #/Reject Other Runs or Reject Run #

ow Help Launch DI Gateway

ted Tests for Verification Complete Read Back X Reject Result

Connection Name A3 Y [Icons] Verify Run with Cell Counter Release Run 2/Reject Other Runs Release DIFF/Reject Other DIFF **Reject Run 2** Reject DIFF

Run Worksheet

1: 1/16/2025 10:03:30 AM  
 \*\*WBC Critical\*\* IG Asterisk Flag: Scan slide to confirm. Atypical Lymph: Lymphocytosis Scan slide.  
 WBC\_Abn\_Scattergram Scan slide. MDIFF if indicated, confirm WBC.

2: 1/16/2025 10:30:00 AM

Right Click on the result tab

RELEASE OR REJECT A RUN USING THESE

Test Name	Test St...	Test Cod...	Result...	Referen...	Flag...	Error...	Result Dat...	Test Inst...	Test ...	Read ...	Read...	Test St...	Test Cod...	Result...
- HEMO														
WBC	Released	WBC	44.1				5/2025 ...	HXN908		Dummy	<input checked="" type="checkbox"/>			
RDW-CV	Released	RDWCV	16.6				5/2025 ...	HXN908			<input type="checkbox"/>			
RBC	Released	RBC	3.66				5/2025 ...	HXN908			<input type="checkbox"/>			
PLT	Released	PLT	207				5/2025 ...	HXN908			<input type="checkbox"/>			
MCV	Released	MCV	103.8				5/2025 ...	HXN908			<input type="checkbox"/>			
MCHC	Released	MCHC	29.7				5/2025 ...	HXN908			<input type="checkbox"/>			
MCH	Released	MCH	30.9				5/2025 ...	HXN908			<input type="checkbox"/>			
HGB	Released	HGB	11.3				5/2025 ...	HXN908			<input type="checkbox"/>			
HCT	Released	HCT	38.0				5/2025 ...	HXN908			<input type="checkbox"/>			
- DIFF														
NRBC %	Released	NRBCRE	0.0				5/2025 ...	HXN908			<input type="checkbox"/>			
Neut %	Released	NEUTRE	7.3				5/2025 ...	HXN908			<input type="checkbox"/>			
Neut #	Released	NEUTAB	3.20				5/2025 ...	HXN908			<input type="checkbox"/>			
Mono %	Released	MONORE	13.3				5/2025 ...	HXN908			<input type="checkbox"/>			
Mono #	Released	MONOAB	5.89				5/2025 ...	HXN908			<input type="checkbox"/>			
Lymph %	Released	LYMPRE	78.5				5/2025 ...	HXN908			<input type="checkbox"/>			
Lymph #	Released	LYMPAB	34.66				5/2025 ...	HXN908			<input type="checkbox"/>			
IG %	Released	IGRE	0.2				5/2025 ...	HXN908			<input type="checkbox"/>			
IG #	Released	IGAB	0.07				5/2025 ...	HXN908			<input type="checkbox"/>			
Eos %	Released	EOSIRE	0.2				5/2025 ...	HXN908			<input type="checkbox"/>			
Eos #	Released	EOSIAB	0.11				5/2025 ...	HXN908			<input type="checkbox"/>			
Baso %	Released	BASORE	0.5				5/2025 ...	HXN908			<input type="checkbox"/>			
Baso #	Released	BASOAB	0.21				5/2025 ...	HXN908			<input type="checkbox"/>			
- MORPH														

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

## 7. COMMENTS

There are canned Specimen comments that can be added to the Test Comments section of the Run Worksheet OR the Cell Counter.

### Run Worksheet

Test Name	Test St.	Result	Units	Referen	Fla...	Error	Result Dat	Test Inst	Test ...	Read ...	Read...	Test St.
- HEMO												
WBC	Held for ...	1.3	10 <sup>3</sup> /uL	4.0 - 11.0	LL		10/15/2025...	H0N908			<input type="checkbox"/>	Released
RBC	Held for ...	3.81	Milli/uL	3.70 - 5...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
HGB	Held for ...	12.1	g/dl	11.5 - 1...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
HCT	Held for ...	35.3	%	35.0 - 4...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
MCV	Held for ...	92.7	fL	81.0 - 9...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
MCH	Held for ...	31.8	pg/cell	25.0 - 3...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
MCHC	Held for ...	34.3	g/dl	30.0 - 3...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
RDW-CV	Held for ...	13.2	%	11.5 - 1...			10/15/2025...	H0N908			<input type="checkbox"/>	Released
PLT	Held for ...	103	10 <sup>3</sup> /uL	130 - 400	L		10/15/2025...	H0N908			<input type="checkbox"/>	Released
- DIFF												

- Hemolyzed - Hemolyzed
- Icteric - Icteric
- Lipemic - Lipemic
- Repeated and verified - Rep...

### Cell Counter

	Giant PLTs											
	Large PLTs											
	Megakaryo											
	PLT Clumps											
	PLT EST											
	PLT Satellitism											
	Reactive Lymphs											
	- HEMO											

- Clumped Platelets...
- Giant Platelets Pr...
- Large Platelets Pr...
- Peripheral Smear ...

\*\*If you replace a numeric result with a comment, you must go to Cerner and verify results. When the Cerner is expecting a numeric result and receives a free text comment, the results stay at a performed status

Test Name	Test St...	Result	Units	Referen	Fla...	Error	Result Dat	Test Inst	Test ...	Read ...	Read...	Test St.
- HEMO												
WBC	Held for ...	1.3	10 <sup>3</sup> /uL	4.0 - 11.0	LL		10/15/2025...	HXN908			<input type="checkbox"/>	
RBC	Held for ...	3.81	Milli/uL	3.70 - 5...			10/15/2025...	HXN908			<input type="checkbox"/>	
HGB	Held for ...	12.1	g/dl	11.5 - 1...			10/15/2025...	HXN908			<input type="checkbox"/>	
HCT	Held for ...	35.3	%	35.0 - 4...			10/15/2025...	HXN908			<input type="checkbox"/>	
MCV	Held for ...	92.7	fL	81.0 - 9...			10/15/2025...	HXN908			<input type="checkbox"/>	
MCH	Held for ...	31.8	pg/cell	25.0 - 3...			10/15/2025...	HXN908			<input type="checkbox"/>	
MCHC	Held for ...	34.3	g/dl	30.0 - 3...			10/15/2025...	HXN908			<input type="checkbox"/>	
RDW-CV	Held for ...	13.2	%	11.5 - 1...			10/15/2025...	HXN908			<input type="checkbox"/>	
PLT	Held for ...	103	10 <sup>3</sup> /uL	130 - 400	L		10/15/2025...	HXN908			<input type="checkbox"/>	
- DIFF												
Neut %	Held for ...	Do not report - D...				W	10/15/2025...	HXN908			<input type="checkbox"/>	
Lymph %	Held for ...	not measured - n...				W	10/15/2025...	HXN908			<input type="checkbox"/>	

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### 8. DIFFERENTIAL USING CELL COUNTER

The Cell Counter window is where the manual differential is counted on the 10-key numeric keypad. To activate it from the Specimen Management Workspace, click on the Cell Counter tab on the right side of the window. Click on the drop-down arrow to select your site-specific manual differential interface. The Cell Counter window will populate with White Blood Cell (WBC), Red Blood Cell (RBC), and Platelet parameters.

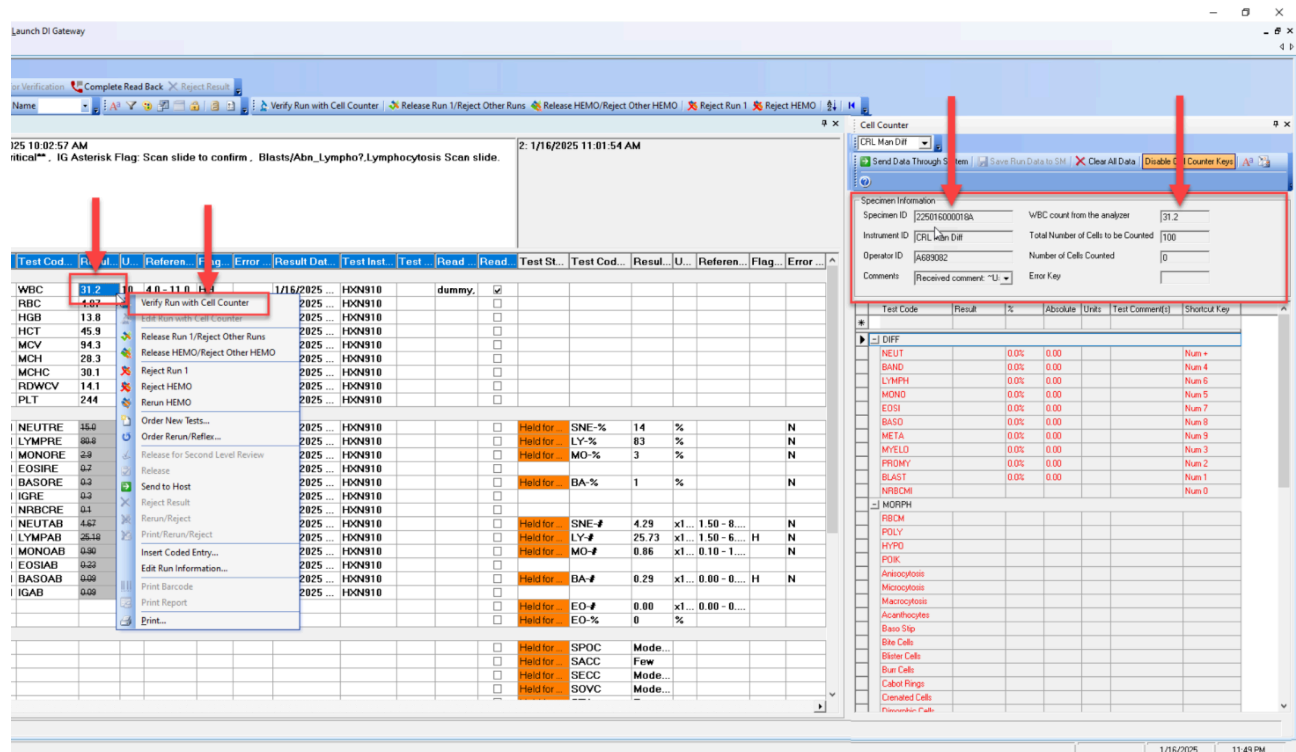
The screenshot shows the 'Cell Counter' window. A dropdown menu is open, showing options: -- None --, BEL BF Diff, BEL Inclusions, BEL Man Diff, CRL Inclusions, and CRL Man Diff. Below the menu, there are input fields for 'Instrument ID' (CRL Man Diff), 'Operator ID' (A689082), 'WBC count from the analyzer', 'Total Number of Cells to be Counted' (100), 'Number of Cells Counted' (0), and 'Error Key'. A table with columns 'Test Code', 'Result', '%', 'Absolute', 'Units', 'Test Comment(s)', and 'Shortcut Key' is visible, with a red box highlighting the 'DIFF' section containing rows for NEUT, BAND, LYMPH, MONO, EOSI, BASO, META, MYELO, PROMY, BLAST, and NRBCMI.

Test Code	Result	%	Absolute	Units	Test Comment(s)	Shortcut Key
* - DIFF						
NEUT		0.0%	0.00			Num +
BAND		0.0%	0.00			Num 4
LYMPH		0.0%	0.00			Num 6
MONO		0.0%	0.00			Num 5
EOSI		0.0%	0.00			Num 7
BASO		0.0%	0.00			Num 8
META		0.0%	0.00			Num 9
MYELO		0.0%	0.00			Num 3
PROMY		0.0%	0.00			Num 2
BLAST		0.0%	0.00			Num 1
NRBCMI						Num 0

For your specimen to be pulled into the Cell Counter window and the absolute white cell values to be correct, you must first click on the WBC value in the Run Worksheet. Then

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

select the **Verify Run with Cell Counter** button on the toolbar. This brings the specimen to the cell counter. After doing so, you will note that the LIS accession number is in the Specimen ID field, and the total WBC value is in the Total Absolute count field. Cells and counting keys are denoted in the first column.



## WBC Differential

### A. Cell Counter Keys

If not enabled, click the Cell Counter Keys from the menu to utilize the Cell Counter keys. Using the number keys associated with each cell type, perform the manual differential until the number of cells counted equals the number of cells to be counted.

### B. Manual Entry

For the manual of the differential count, click on the cell type and manually type in the value for each cell type.

**NOTE: The Total Number of Cell to be Counted can be changed for differential with very low White Blood Cell Count (WBC)**

## Morphology:

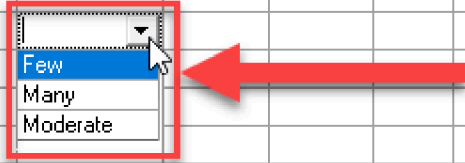
## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

This is where morphology and any appropriate comments are entered. Select the associated coded comment in the result field.

- RBCM is a required test field: Select (Reviewed) if RBC morphology is reported. Select (Normal) if the RBC morphology is normal.
- PLTE is a required test field. Select the appropriate result from the coded results dropdown (Adequate, Decreased, Increased, Significantly Increased).

**NOTE: Failure to result either RBCM and/or PLTE will cause the sample to remain pending and the LIS.**

	Test Code	Result	%	Absolute	Units	Test Comment(s)	Shortcut Key
*							
	NRBCMI						Num 0
	- MORPH						
	RBCM						
	POLY						
	HYPD						
	POIK						
	Anisocytosis						
	Microcytosis						
	Macrocytosis						



## 9. DIFFERENTIAL USING CELLAVISION

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- Any peripheral smear sent to Cellavision will show as a separate run. If a manual differential were performed in Cellavision, you would want to reject the auto diff from CBC run that you want to release so that manual differential is released to Cerner.

Run 1 (Result: (-1))

Run 2 (Result: (2))

Right click on the Auto-Diff run you want to Reject select [Reject Diff]

AutoDiff

Cellavision Differential

Test Name	Test St.	Test	Result (1)	Result (2)	Referen...	Flag...	Error
HEMO							
WBC	Released	WBC	31.2				
RBC	Released	RBC	4.87				
HGB	Released	HGB	13.8				
HCT	Released	HCT	45.9				
MCV	Released	MCV	94.3				
MCH	Released	MCH	28.3				
MCHC	Released	MCHC	30.1				
RDW-CV	Released	RDW...	14.1				
PLT	Released	PLT	244				
DIFF							
NRBC %	Rejected	NRB...	0.1				
IG %	Rejected	IGRF	0.3				
IG #	Rejected	IGAB	0.08				
Eos #	Rejected	EOSL	0.23				
Eos %	Rejected	EOSI	0.2				
EO-%							
Baso #	Rejected	BASO	0.08				
Mono #	Rejected	MON...	0.90				
Baso %	Rejected	BASO	0.3				
Neut %	Rejected	NEU...	45.0				
Lymph #	Rejected	LYMP	25.18				
Mono %	Rejected	MON...	2.9				
Neut #	Rejected	NEU...	4.82				
Lymph %	Rejected	LYMP	80.8				
MORPH							
TEARD							
TARG							
TOXG							
ACAN							

- Pay close attention to the Run Comments, this will correspond to a CV order.

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Specimen Worksheet

Run Worksheet

1: 10/6/2025 10:38:48 AM  
 PLT Asterisk Flag: Scan slide to confirm. IG Asterisk Flag: Scan slide to confirm  
 .Atypical\_Lympho? Scan slide. MDIFF if indicated. Blasts/Abn\_Lympho? Scan slide. MDIFF if indicated. PLT\_Abn\_Distribution: RERUN. WBC\_Abn\_Scattergram Scan slide. MDIFF if indicated. confirm WBC. Thrombocytopenia: PLT < 100 Scan Smear

Test Name	Test...	Result...	U...	Referen...	Flag (1)	Error ...	Result Dat...	Test Inst...	Test ...	Read ...	Read...
<b>HEMO</b>											
WBC	Field f.	18.6	10...	4.0 - 11.0	H		10/6/2025 ...	HXN904			
RBC	Field f.	3.67	Mi...	4.50 - 5...	L		10/6/2025 ...	HXN904			
HGB	Field f.	11.0	g/dl	13.5 - 1...	L		10/6/2025 ...	HXN904			
HCT	Field f.	35.3	%	41.0 - 5...	L		10/6/2025 ...	HXN904			
MCV	Field f.	96.2	fL	83.0 - 9...			10/6/2025 ...	HXN904			
MCH	Field f.	30.0	p...	25.0 - 3...			10/6/2025 ...	HXN904			
MCHC	Field f.	31.2	g/dl	30.0 - 3...			10/6/2025 ...	HXN904			
RDW-CV	Field f.	18.4	%	11.5 - 1...	H		10/6/2025 ...	HXN904			
PLT	Field f.	68	10...	130 - 400	L	W	10/6/2025 ...	HXN904			
<b>DIFF</b>											
Neut %	Field f.	4.5	%			W	10/6/2025 ...	HXN904			
Lymph %	Field f.	26.5	%			W	10/6/2025 ...	HXN904			
Mono %	Field f.	67.6	%			W	10/6/2025 ...	HXN904			
Eos %	Field f.	0.9	%				10/6/2025 ...	HXN904			
Baso %	Field f.	0.2	%				10/6/2025 ...	HXN904			
IG %	Field f.	0.3	%			W	10/6/2025 ...	HXN904			
NRBC %	Field f.	0.3	%	0.0 - 0.0	H		10/6/2025 ...	HXN904			
Neut #	Field f.	0.85	10...	1.8 - 7.7	L	W	10/6/2025 ...	HXN904			
Lymph #	Field f.	4.92	10...	1.00 - 3...	H	W	10/6/2025 ...	HXN904			
Mono #	Field f.	12.54	10...	0.1 - 1.0	H	W	10/6/2025 ...	HXN904			
Eos #	Field f.	0.16	10...	0.00 - 0...			10/6/2025 ...	HXN904			
Baso #	Field f.	0.03	10...	0.00 - 0...			10/6/2025 ...	HXN904			
IG #	Field f.	0.05	10...	0.01 - 0...		W	10/6/2025 ...	HXN904			
<b>INSTRUCTIONS</b>											
RUN COM...	Reje...	PRESENT					10/6/2025 ...				
SMEAR	Reje...	PLT					10/6/2025 ...				
<b>IMAGE</b>											
Platelet Co...	Reje...	2025-10...					10/6/2025 ...	HXN904			
Red Blood ...	Reje...	2025-10...					10/6/2025 ...	HXN904			
WDF Image	Reje...	2025-10...					10/6/2025 ...	HXN904			
WDF_FSC I...	Reje...	2025-10...					10/6/2025 ...	HXN904			
WNR Image	Reje...	2025-10...					10/6/2025 ...	HXN904			

5:30 AM

ocal: Kaiser Southern California Hematology | License #: IM-347971 | Customer Name: Kaiser Southern California Hematology

Processed Orders Pending Orders

Search criteria

View latest 10/3/2025 and 10/10/2025 View all

Last name = CRL

Q Show only exact matches

Order ID	Patient ID	First Name	Last Name	Signed by	Laboratory	Analyzed	Ordering Phys
225279000694	ZZ000019811	TEST14	CRL	D279330	HD1602	2025-10-02 12:53	DUMMY,TEST

Order Data

Order ID\*: 225279000694

Patient ID: ZZ000019811

First name: TEST14

Last name: CRL

Birth date: 2010-03-01

Gender: Male Female

Ethnic origin:

Ward:

ICD code:

Patient comment:

Type of order\*

Number of WBC's to count: 100

WBC  RBC  PLT  STAT

WBC count (x10e9/L): 7.67

RBC conc. (x10e12/L): 4.99

Sample date: 2025-10-02

Ordering physician: DUMMY,TEST

Additional Instrument Flags:

Blasts BL  
 Monocytosis MO  
 NRBC NR

(\* required field) Close

**If MDIFF is indicated – DI will have a CV order and Pt. demographics should be present in DI**

- If Manual Diff is ordered, patient demographics and XN results should be in Cellavision.

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

The screenshot displays the CellVision software interface. On the left, a 'Patient data' panel lists the following information:

- Order ID: 225283006925B
- Last name: [REDACTED]
- First name: [REDACTED]
- Birth date: 1959-02-11
- Sex: M
- Sample date: 2022-10-10 07:07

Below the patient data is a 'Hemogram' section with the following values:

Parameter	Value
WBC	6.90
Rbc	4.74
Hgb	14.3
Hct	43.1
MCV	90.9
MCH	35.2
MCHC	33.2
Platelet	310.0

Below the hemogram is a 'Differential Count' section with the following values:

Cell Type	%
Neut	47.8
Eos	2.2
Baso	0.6
Lymph	39.7
Mono	9.6
MISC	0.0
Others	-

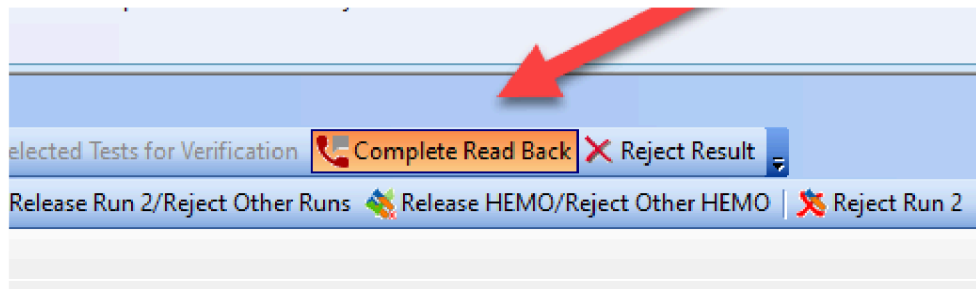
The main area of the interface shows a grid of microscopic images. The top row is labeled 'Band neutrophil' and shows two images. The middle section is labeled 'Segmented neutrophil' and shows a grid of 24 images. A red arrow points to the 11th image in this grid, with a text box that reads: "These information should be present in Cellvision". The bottom row is labeled 'Lymphocyte' and shows two images.

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

### 10. CRITICAL CALL DOCUMENTATION

All critical results will be highlighted in Purple and grouped according to whether they are Critical Low (LL) or Critical High.

- a. Highlight the Critical Result to be called. If multiple Critical Results on one run press and hold the “ctrl” key and click on the Critical Results individually.
- b. Click on the “Complete Read Back Icon”



30/2024 12:31:31 PM

> Critical\*\* , IG Asterisk Flag: Scan slide to confirm , Anisocytosis, Anis  
 RERUN

- c. Enter the NUID or Recipient's full name called on the box and click [OK]

for ...	WBC	1.2	10 <sup>3</sup> /uL	4.0 - 11.0	LL		12/30/2
for ...	RBC	2.51	Milli/uL	4.50 - 5....	L		12/30/2
for ...	H						/2
for ...	H						/2
for ...	M						/2
for ...	M						/2
for ...	M						/2
for ...	R						/2
for ...	P						/2
for ...	N						/2
for ...	LYMPH ...	30.0	%			W	12/30/2
for ...	MONO...	5.8	%			W	12/30/2
for ...	EOSIN...	1.7	%				12/30/2

Complete Read Back on Selected Test(s)

Please enter the required information for the respondent.

OK Cancel

- d. Once documentation is completed, the NUID of the person called should show on your Run worksheet and ✓ on the read-back status

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

1: 1/8/2025 11:54:31 AM <b>**HGB Critical**, **HCT Critical**</b>												
I												
Test Name	Test...	Test ...	Res...	Units ...	Reference ...	Flag (...)	Error ...	Result Dat...	Test In...	Test ...	Read Back ...	Read Back Status ...
- HEMO												
HGB	Rele...	HGB	4.4	g/dl	11.5 - 16.0	LL		1/8/2025 1...	HXN904		dummy. test	<input checked="" type="checkbox"/>
HCT	Rele...	HCT	14.3	%	35.0 - 47.0	LL		1/8/2025 1...	HXN904		dummy. test	<input checked="" type="checkbox"/>
- IMAGE												
Platelet C...	Rej...	PLT I...	2025...					1/8/2025 1...	HXN904			<input type="checkbox"/>
Red Blood...	Rej...	RBC I...	2025...					1/8/2025 1...	HXN904			<input type="checkbox"/>
WNR Image	Rei...	WNR	2025...					1/8/2025 1	HXN904			<input type="checkbox"/>

## 11. REPEATING/RERUNNING

- Retrieve the sample, identify the rack and location of the specimen to be repeated. In your workspace, right click on the acc# and click on specimen tracking.

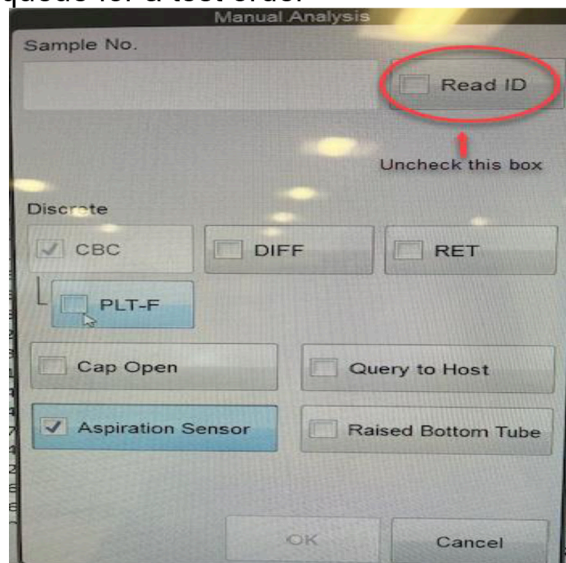
The screenshot shows the 'Specimen Worksheet' application. A right-click context menu is displayed over a specimen ID '225290001451'. The menu options include 'Cut', 'Copy', 'Paste', 'Filter...', 'Color Coding / Field Formatting...', 'Field Chooser...', 'Group By Box', 'Freeze Columns', 'Panels', 'Order New Tests...', 'Action', 'QC Action Log...', 'Stop Holding Selected Tests for Verification for Group', 'Audit Trail...', 'Specimen Tracking...' (highlighted), 'Specimen Event Log...', 'Send Selected Data to Rules Testing...', 'Test Status History...', 'Show All Data...', and 'Print...'. The background window shows a data table with columns: Test St., Result, Units, Reference, Flag (I), Error, Result Date, Test Inst., Test, Read, and Read. The table lists various test results, including Hematology (HGB, HCT, PLT, RBC, WBC, Eos, Baso, IG) and Imaging (Platelet C, Red Blood, WDF Image, WDF FSC). Some results are marked as 'Held for' or 'Present'.

- It will take you to the specimen event log (SEL) window, highlighting the specimen tracking view

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

Specimen ID	Event Date/Time	Origin Connection	Destination Connection(s)	Message Type	Rack/Counter ID/Y	Cup/Position/X	Sequence Number	Instrument ID
225290001451A	10/17/2025 2:45:14	CRL.XN9100 Results 2	CRL.Cerner Results, CRL.XN9100 Orders ...	result	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.Cerner Results, CRL.XN9100 Orders ...	result	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.Cerner Results, CRL.XN9100 Orders ...	validate	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.XN9100 Orders 2	request	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.DI80 3	request	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.DI80 2	request	554000	9		
225290001451A	10/17/2025 2:44:02	CRL.XN9100 Results 2	CRL.DI80 1	request	554000	9		
225290001451A	10/17/2025 2:42:12	CRL.XN9100 Results 2	CRL.Cerner Results, CRL.XN9100 Orders ...	status	554000	9		H0N905"H
225290001451A	10/17/2025 1:31:00	CRL.Cerner Orders	CRL.XN9100 Orders 1, CRL.XN9100 Res...	request	554000	9		

- Rerun sample using manual mode ONLY. Make sure the read ID button is unchecked. Scan the acc# or input manually. IM will not queue for a test order

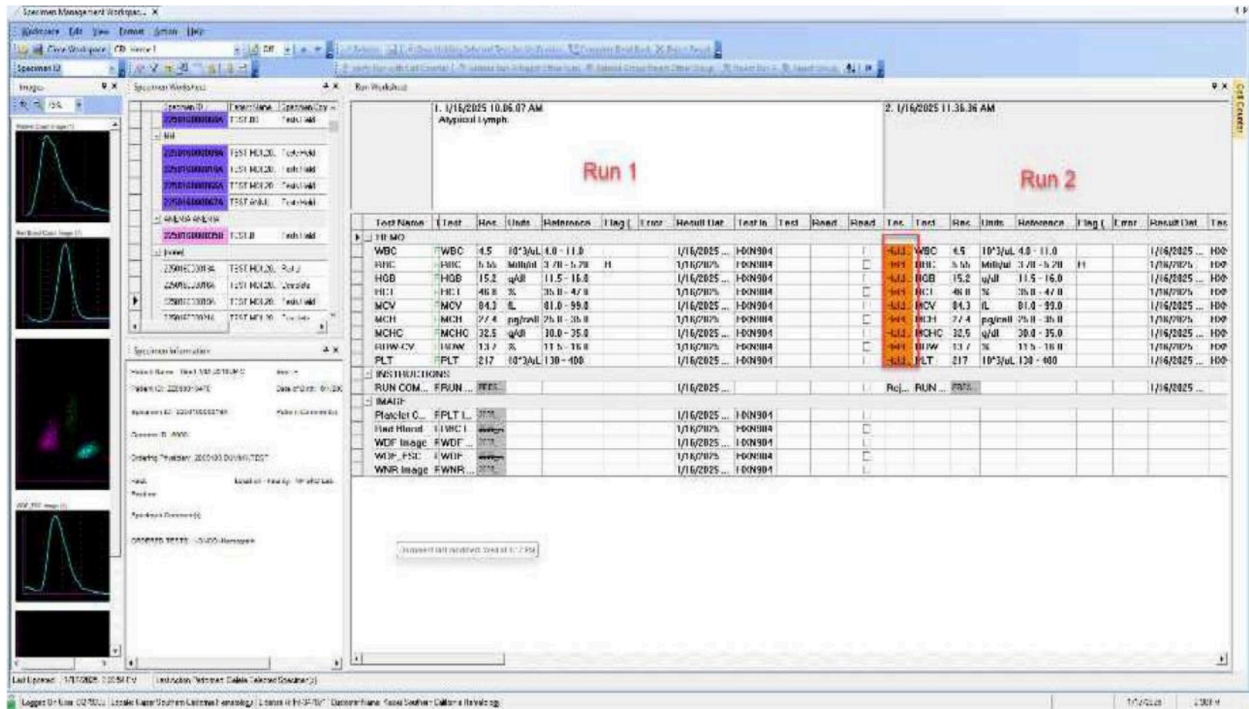


**NOTE: Rerunning samples by loading them on the Sysmex racks (RACK MODE) will not run the desired discrete test.**

Select the discrete test needed for the rerun. CBC is automatically selected (Default)

Reruns will show in IM Workspace as separate runs with separate “Run Comments” and will be held.

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE



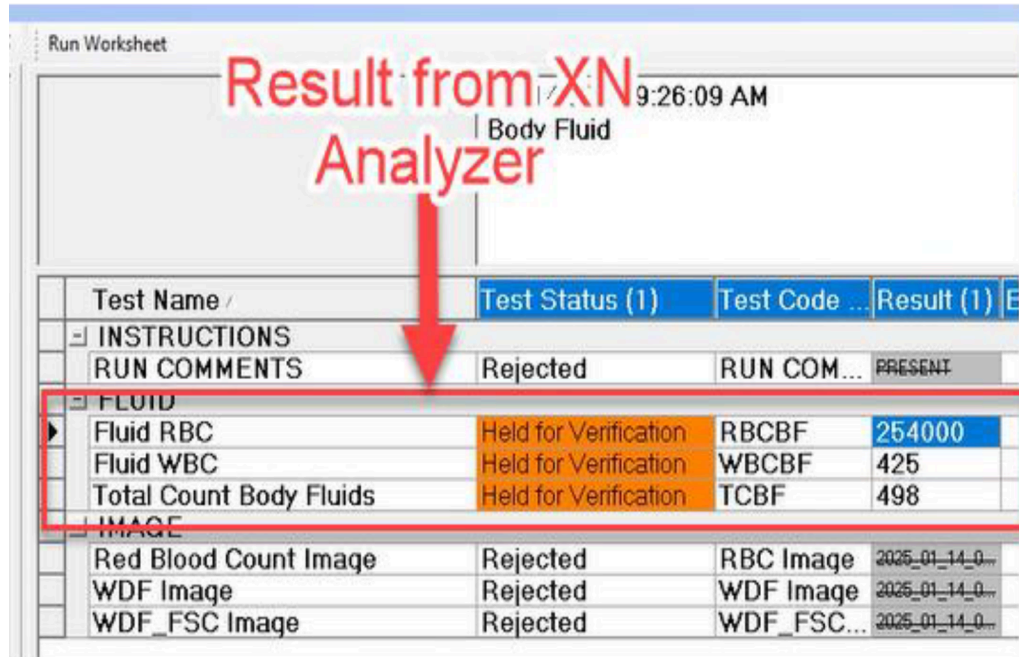
## 12. REPEATING W/ DILUTION, SALINE REPLACEMENT OR WITH INCUBATION

- Repeating a Sample with dilution, Saline Replacement, or Incubation is like repeating a run workflow
  - After retrieving the sample and performing any offline manipulation, rerun the sample using manual mode ONLY.
  - Make sure the read ID is unchecked. The acc# must be appropriately entered manually for IM to processed correctly.
    - Dilution – Enter the sample acc followed by “X” and the dilution factor
      - Example: 225294009015Cx2
      - MCH, MCHC, RDW, and MCHC are NOT recalculated
    - Saline Replacement – Enter the Sample accession followed by “-SAL”
      - Example: 225294009015C-SAL
- NOTE: The WBC and Platelet result for Saline replacement is automatically rejected. Select original WBC and Platelet results.**
- Incubation – Enter the acc# followed by “-INC”
    - Example: 225294009015C-INC

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

### 13. BODY FLUID

- a. When the approved body fluids are run through the XN Analyzer, the result should be transferred to the DI Instrument Manager.



Run Worksheet

Result from XN Analyzer  
9:26:09 AM  
Body Fluid

Test Name /	Test Status (1)	Test Code ...	Result (1)   E
INSTRUCTIONS			
RUN COMMENTS	Rejected	RUN COM...	PRESENT
FLUID			
Fluid RBC	Held for Verification	RBCBF	254000
Fluid WBC	Held for Verification	WBCBF	425
Total Count Body Fluids	Held for Verification	TCBF	498
IMAGE			
Red Blood Count Image	Rejected	RBC Image	2025_01_14_0...
WDF Image	Rejected	WDF Image	2025_01_14_0...
WDF_FSC Image	Rejected	WDF_FSC...	2025_01_14_0...

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

- b. Body Fluid Differential and Manual Cell Count (if applicable) are performed through the Cell Counter

**Select the correct module for body fluid**

**Enable the cell counter to use the number keys to perform the differential.**

**Number keys shortcut for differential**

Test Code	Result	Units	T
* [ ]			
BFVOL			
XANTHR			
COLRBF			
APPBF			
RBCBF			
WBCBF			
TCBF			
TNCREM			
FNEUT	0		Num +
FLYMP	0		Num 6
FMONO	0		Num 5
FEOSI	0		Num 7
FBASO	0		Num 8
FMESO	0		Num 4
FOTHER	0		Num 1

- c. Manual Cell Count

Perform cell count using the hemocytometer. The raw data are inputted on the cell counter under the hemacytometer group, and the Instrument Manager will calculate the values automatically.

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

Test Code	Definition
BFVOL	Body Fluid Volume (Numeric)
XANTHR	Xanthochromia (if Applicable) Yes/No
COLRBF	Body Fluid Color (Dropdown choices)
APPBF	Body Fluid Appearance (Dropdown choices)
RBCBF	RBC Auto results from the XN analyzer
WBCBF	
TCBF	TNC Auto results from the XN analyzer
TNCBFM	TNC Cell Count Manual Calculation from the values below
<b>COMMENT</b>	
SOURCE	
COMNT	Free text Comments
<b>HEMOCYTOMETER</b>	
TCSQSZ	Size of the square of the hemacytometer used to count the TNC (small/large)
TNCSD1	Type in the raw count for the TNC value on one side of the hemocytometer
TNCSD2	Type in the raw count for the TNC value on one side of the hemocytometer
TCDIL	Type in the offline dilution factor. If no dilution was made, type in one (1)
TCSQ	The number of squares counted for the TNC cell count. (numeric 1-9)
Red Cell Confirm	Drop-down (Smear review / Acid Treatment)
RBCSQSZ	Size of the square of the hemacytometer used to count the RBC (small/large)
RBCSD1	Type in the raw count for the RBC value on one side of the hemocytometer
RBCSD2	Type in the raw count for the RBC value on one side of the hemocytometer
RBCDIL	Type in the offline dilution factor. If no dilution was made, type in one (1)
RBCSQ	The number of squares counted for the RBC cell count. (numeric 1-9)

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

- d. After completing the Body Fluid Differential or the Manual Cell Count, select the “Send Data Through System” to Activate the calculation in the Run Worksheet

The screenshot displays the 'Cell Counter' software interface. On the left is the 'Run Worksheet' pane, and on the right is the 'Cell Counter' control panel. The 'Run Worksheet' pane shows a table with columns: Test Name, Test Status (1), Test Code, Result (1), Error, Unit, and Reference. The table contains data for 'Manual Cell Count RBC' and 'Manual Cell Count TNC'. The 'Cell Counter' control panel has a dropdown menu set to 'BEL BF Diff' and a button labeled 'Send Data Through System' highlighted with a red box. Below this are fields for 'Specimen Information' (Specimen ID, Instrument ID, Operator ID) and 'Total Number of Cells to be Counted' and 'Number of Cells Counted'. A red arrow points from the text 'Select this button to activate the calculation and send the result to the Run Worksheet pane.' to the 'Send Data Through System' button.

Test Name	Test Status (1)	Test Code	Result (1)	Error	Unit	Reference
RBCBF						
WBCBF						
COMNT						
Fluid RBC	Released	RBCBF	245000		0.0 - 0.0	
Fluid WBC	Released	WBCBF	309			
TCBF						
Total Count Body Fluids	Released	TCBF	329		0.0 - 5.0	
- FLUID DIFF						
FNEUT						
FLYMP						
FMONO						
FEOSI						
FBASO						
FMESO						
FOTHER						
- IMAGE						
Red Blood Count Image	Rejected	RBC Image	2025_01_15_1...			
WDF Image	Rejected	WDF Image	2025_01_15_1...			
WDF_FSC Image	Rejected	WDF_FSC...	2025_01_15_1...			
- COMMENT						
SOURCE						
- HEMACYTOMETER						
RBCDIL						
RBCSD1						
RBCSD2						
RBCSQ						
RBCSQSZ						
Red Cell Confirm						
TCDIL						
TCSQ						
TCSQSZ						
TNCBFM						
TNCSD1						
TNCSD2						

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

## 14. UNNECESSARY SLIDES

- Current XN Onboarding rules and DI rules for Hematology slides do not align.
- XN Onboarding rules determine when slides will be created
- XN rules are parameter based and not by orderable.
- If the CLS determines that they would like to provide MDIFF even though DI did not place a CV order, CLS MUST ensure that they provide the WBC count in Cellavision.

**Search criteria**

View latest [dropdown] 9/29/2025 and 10/6/2025 View all [dropdown]

None = [dropdown] [dropdown] = [dropdown]

[Search Icon]  Show only exact matches

Order ID	Patient ID	First Name	Last Name	Signed by	Laboratory	Analyzed	Ordering PT
225278007989A					HDI602	2025-10-05 21:48	
225278017312B					HDI601	2025-10-05 21:47	

**No Demographics = no order from DI**

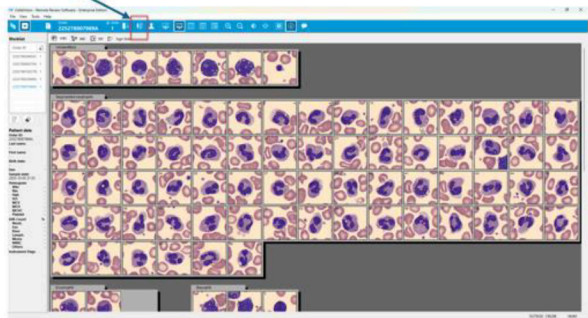
  

Order ID: [dropdown] Patient ID: [dropdown] First Name: [dropdown] Last Name: [dropdown] Signed by: [dropdown]

- Open
- Delete
- Add to Worklist
- Export...
- Mark/Unmark as STAT
- Protect/Unprotect
- Mark/Unmark for Transfer Tool
- Edit Order Data...**
- Save images to disk...

2 ways to edit order data in Cellavision



**Order Data**

Order ID\*: [redacted]

Patient ID: [redacted]

First name: [redacted]

Last name: [redacted]

Birth date: [dropdown: 2025-03-05]

Gender:  Male  Female

Ethnic origin: [dropdown]

Ward: [dropdown]

ICD code: [dropdown]

Patient comment: [text area]

---

Type of order\*

WBC Number of WBCs to count: 100

RBC

PLT

STAT

WBC count (x10e9/L): [redacted]

RBC conc. (x10e12/L): [redacted]

Sample date: [dropdown: 2025-03-05]

Ordering physician: [redacted]

Additional Instrument Flags: [text area]

Close

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

- If ManDiff was not ordered by DI and CLS did not provide WBC in Cellavision. Run comment in DI will show “WBC not available to calculate Absolute Values” and will prompt CLS to manually recalculate (Teal color)

Run Worksheet

2: 10/15/2025 11:33:11 AM  
 \*\*AGE AND/OR SEX UNKNOWN\*\*. VERIFY PATIENT AGE/GENDER... WBC not available to calculate Absolute values. Manually Recalculate and enter result

Test Name	Test St...	Resul...	Units ...	Referen...	Flag (2)	Error ...	Result Dat...	Test Inst...	Test ...	Read ...	Read... 1
PLT											<input type="checkbox"/>
MPV											<input type="checkbox"/>
Red Cell D...											<input type="checkbox"/>
- DIFF											
Neut %	Held for ...	19	%			N	10/15/2025...	HDI602			<input type="checkbox"/>
Lymph %	Held for ...	70	%			N	10/15/2025...	HDI602			<input type="checkbox"/>
Mono %	Held for ...	3	%			N	10/15/2025...	HDI602			<input type="checkbox"/>
Eos %	Held for ...	3	%			N	10/15/2025...	HDI602			<input type="checkbox"/>
Baso %	Held for ...	1	%			N	10/15/2025...	HDI602			<input type="checkbox"/>
IG %											<input type="checkbox"/>
NRBC %											<input type="checkbox"/>
Blast %	Held for ...		%			N	10/15/2025...	HDI602			<input type="checkbox"/>
Neut #	Held for ...	Recalc...	$\times 10^3$ ...			N	10/15/2025...	HDI602			<input type="checkbox"/>
Lymph #	Held for ...	Recalc...	$\times 10^3$ ...			N	10/15/2025...	HDI602			<input type="checkbox"/>
Mono #	Held for ...	Recalc...	$\times 10^3$ ...			N	10/15/2025...	HDI602			<input type="checkbox"/>
Eos #	Held for ...	Recalc...	$\times 10^3$ ...			N	10/15/2025...	HDI602			<input type="checkbox"/>
Baso #	Held for ...	Recalc...	$\times 10^3$ ...			N	10/15/2025...	HDI602			<input type="checkbox"/>
IG #											<input type="checkbox"/>
NRBC #											<input type="checkbox"/>

# DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

## 15. UNREGISTERED SAMPLE

- Causes:
  - Specimen is not logged-in (In-Lab status)
  - Routing of specimen is not for you location
  - Not CBC order i.e ESR, HbA1c, BNP, Blood Bank, etc.

Test Name	Test	Res	Units	Referenc	Flag (...)	Error	Result Da...	Test In...	Test ...	Read ...	Read...
HEMO											
WBC	Held..	6.9	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
RBC	Held..	4.57	Milli/uL				4/29/2025...	HxN903			
HGB	Held..	13.3	g/dl				4/29/2025...	HxN903			
HCT	Held..	42.9	%				4/29/2025...	HxN903			
MCV	Held..	93.9	fL				4/29/2025...	HxN903			
MCH	Held..	29.1	pg/cell				4/29/2025...	HxN903			
MCHC	Held..	31.0	g/dl				4/29/2025...	HxN903			
RDW-CV	Held..	13.2	%				4/29/2025...	HxN903			
PLT	Held..	338	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
MPV	Held..	11.0	fL				4/29/2025...	HxN903			
Red Cell D...	Held..	45.4					4/29/2025...	HxN903			
DIFF											
Neut %	Held..	53.9	%				4/29/2025...	HxN903			
Lymph %	Held..	35.1	%				4/29/2025...	HxN903			
Mono %	Held..	8.4	%				4/29/2025...	HxN903			
Eos %	Held..	1.9	%				4/29/2025...	HxN903			
Baso %	Held..	0.6	%				4/29/2025...	HxN903			
IG %	Held..	0.1	%				4/29/2025...	HxN903			
NRBC %	Held..	0.3	%				4/29/2025...	HxN903			
Neut #	Held..	3.70	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
Lymph #	Held..	2.41	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
Mono #	Held..	0.58	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
Eos #	Held..	0.13	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
Baso #	Held..	0.04	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
IG #	Held..	0.01	10 <sup>3</sup> /uL				4/29/2025...	HxN903			
NRBC #	Held..	0.0					4/29/2025...	HxN903			
IMAGE											
Platelet C...	Rej...	2025...					4/29/2025...	HxN903			
Red Blood...	Rej...	2025...					4/29/2025...	HxN903			
WDF Image	Rej...	2025...					4/29/2025...	HxN903			
WDF FSC	Rei...	2025...					4/29/2025...	HxN903			

- How to address unregistered specimens
  - Check log-in status in cerner
    - If it's for your service resource, log it in
      - Re-host the results from analyzer to DI – Patient Demographics should be present after re-hosting.
      - Release results or address the flags with the acc# that has pt. demographics
      - Reject the acc# w/o demographics in DI
    - If it's not for your site, send and have it deliver to its designated site
      - Reject the acc# w/o demographics in DI
    - If the ordered test is not CBC
      - Reject the acc# w/o demographics in DI

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### 16. PLT – Replacing critical result with “Do not Report”

- When initial run contains a critical platelet result but clumping is present
  - Reject Critical PLT result
  - Use MRE and choose “Do not report” from the drop down – send data through system

The screenshot shows the 'Cell Counter' software interface. At the top, there are buttons for 'Send Data Through System', 'Save Run Data to SM', 'Clear All Data', and 'Enable Cell Counter Keys'. Below this is the 'Specimen Information' section with fields for Specimen ID (225289000720A), Instrument ID (CRL Man Diff), Operator ID (D279330), WBC count from the analyzer (5.3), Total Number of Cells to be Counted (100), and Number of Cells Counted (0). Below the specimen information is a table with columns: Test Code, Result, %, Absolute, Units, Test Comment(s), and Shortcut Key. The table lists various test codes such as Rouleaux, SCHISTO, Sickle Cells, Siderocyte, Spherocytes, Stomatocytes, Target Cell, Tear Cell, Atp Lympho, Auer Rods, Dohle Bodies, Hypersegs, Plasmacytes, Sezary Cells, Pelger Huet, Smudge Cells, Toxic Gran, Vac Gran, Giant PLTs, Large PLTs, Megakaryo, PLT Clumps, PLT EST, PLT Satellitism, and Reactive Lymphs. At the bottom of the table, there is a section for 'PLT CDM' with a dropdown menu for 'PLT' and a dropdown menu for 'CPLT' showing 'Do not report' as an option. The 'Do not report' option is highlighted with a red box.

- Once result from MRE for PLT is sent, critical result and color should not be triggered
- CLS must verify manually in cerner.

## DATA INNOVATION INSTRUMENT MANAGER TRAINING GUIDE

### 17. USING SPECIMEN EVENT LOG (SEL)

- Specimen Event Log contains all of the events that transpired and specifics about a particular specimen.
  - Specimen Event Log View – ALL EVENTS
  - Audit Trail View – has all the rules that were applied to the specimen
  - Specimen Tracking View – Where to find rack and position # of specimen.

The image shows two screenshots of the Instrument Manager software interface. The top screenshot shows the main menu with 'Diagnostics' highlighted, and a dropdown menu with 'Specimen Event Log' selected. The bottom screenshot shows the 'Specimen Event Log' window with a search bar and a table of events. Red arrows point from text labels to specific columns in the table.

**Specimen Event Log View**

Event Date/Time	Specimen ID	Category	Message Type	Event	Connection/Configuration	User ID

Annotations for the bottom screenshot:

- Enter Specimen ID (Search bar)
- Specimen Event Log View (Tab)
- Transaction ID (Field)
- All events that transpired on the specimen (Arrow pointing to Event column)
- Events where rules were applied (Arrow pointing to Connection/Configuration column)
- to find rack and position # of specimen (Arrow pointing to User ID column)

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The screenshot displays the 'Instrument Manager by Data Innovations LLC - [Specimen Event Log]' window. The main area shows a table of events with columns for Transaction ID, Event Date/Time, Specimen ID, Category, Message Type, Event, Connection/Configuration, and User ID. A detailed view of a selected event is shown below the table, containing fields for Date/Time, Connection/Configuration, Location, Event, Record changed by User, Time Taken to Evaluate Rules, and a Description of the event. Two red arrows point from the 'Message Type' and 'Event' columns in the table to the 'Details of the event' section.

Transaction ID	Event Date/Time	Specimen ID	Category	Message Type	Event	Connection/Configuration	User ID
13104218	10/6/2025 11:20:26	22527901556...	request	Audit	CRL Cerner Orders/CRL Cerner	Rules	
13111251	10/6/2025 11:20:26	22527901556...	request	Audit	CRL Cerner Orders/CRL Cerner	Rules	
13111457	10/7/2025 1:11:21 AM	22527901556...	status	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111768	10/7/2025 1:13:47 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111769	10/7/2025 1:13:47 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111770	10/7/2025 1:13:47 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111771	10/7/2025 1:13:47 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111772	10/7/2025 1:13:47 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111835	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111836	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111837	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111838	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111839	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111840	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111841	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111842	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111843	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111844	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111845	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111846	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111847	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111848	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111849	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111850	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111851	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111852	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111853	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111854	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111855	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111856	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111857	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111858	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111859	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111860	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111861	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111862	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111863	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111864	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111865	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111866	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111867	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111868	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111869	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111870	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111871	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111872	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111873	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111874	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111875	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111876	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111877	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111878	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111879	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111880	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111881	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111882	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111883	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111884	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111885	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111886	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111887	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111888	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111889	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111890	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111891	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111892	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111893	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111894	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111895	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111896	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111897	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111898	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111899	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	
13111900	10/7/2025 1:18:05 AM	22527901556...	result	Audit	CRL \>N9100 Results 3\CRL \>N9100 3	Rules	

**Details of the event**

Date/Time: 10/6/2025 11:20:26 PM  
 Connection/Configuration: CRL Cerner Orders/CRL Cerner  
 Location: Before Data Updated with Specimen Management Info  
 Event: Audit  
 Record changed by User: Rules  
 Time Taken to Evaluate Rules: 0.000563  
 Description:  
 Record was a request from CRL Cerner Orders  
 Original Data:  
 Patient Data:  
 Patient ID = '6199459'  
 Patient Name = 'DAVID DAVID A'  
 Sex = 'M'  
 Date of Birth = '5/23/1962'  
 Location - Facility = 'SUN L13 TmsSur'  
 MRN = '32671396337'  
 Patient Status = 'Unknown'  
 Visit Number = '6199459'  
 Location Nurse Station = 'SUN L13 TmsSur'  
 Specimen Data:  
 Specimen ID = '225279015563C'  
 Priority = 'R'  
 Collection Date/Time = '10/6/2025 08:47:00 AM'  
 Ordering Physician = '10746042.BURKEL,ANNE'  
 Collection End Date/Time = '10/6/2025 08:47:00 AM'  
 Collector ID = 'W382131'

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## Signature Manifest

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**Effective Date:** 05 Jan 2026

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All dates and times are in Pacific Standard Time.

### Hematology Regional Docs

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#### Operations Director Approval

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Name/Signature	Title	Date	Meaning/Reason
Annaleah Raymond (Q741709)	Laboratory Operations Director	30 Dec 2025, 04:54:11 PM	Approved

#### Medical Director Approval

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Name/Signature	Title	Date	Meaning/Reason
Mark Taira (P161328)	CLIA Director	05 Jan 2026, 07:42:26 AM	Approved