

CELLAVISION

Remote peripheral blood smear review

Instructions to access

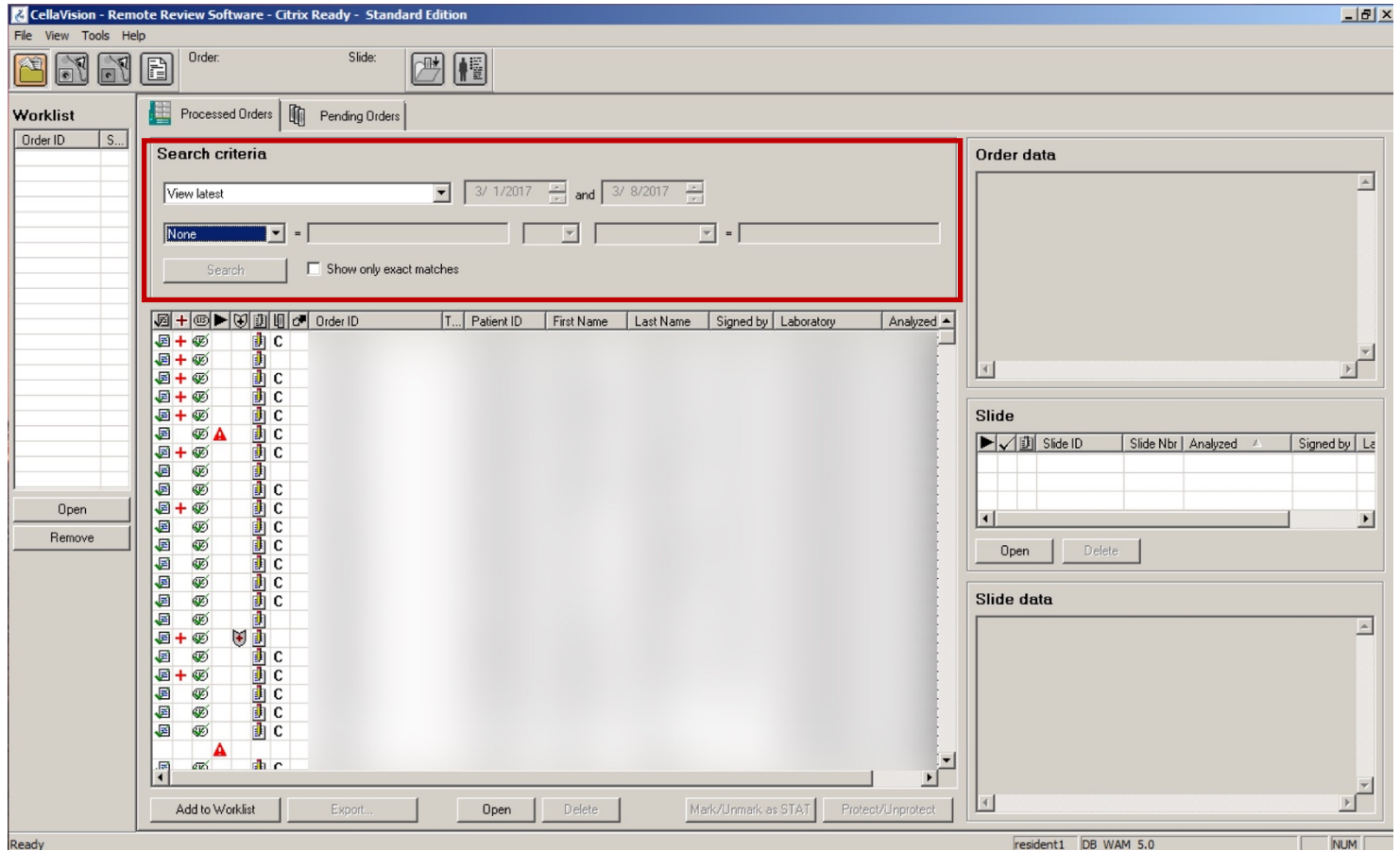
1. Log into an OHSU computer with your login credentials like usual. Once at the desktop, open Citrix and then the Cellavision DM application.
 - Cellavision can also be accessed remotely via portal.ohsu.edu



2. You'll be prompted to enter a **username** and **password** (See below).
 - You can use any of these three usernames: **resident1**, **resident2**, or **resident3**.
 - You may have to try all three, as each username can only be in use by one person at a time.
 - Password is **blast**

A screenshot of the "Log On" dialog box for Cellavision. The dialog has a blue header with the text "Log On". Below the header is the Cellavision logo and the text "Remote Review Software - Citrix Ready". There are three input fields: "Username:" with the text "resident1", "Password:" with masked characters "*****", and "Database:" with a dropdown menu showing "DB_WAM_5.0". At the bottom are "OK" and "Cancel" buttons.

3. The program will open (you can close the “startup test” dialogue box that pops up or allow it to run for another ~5 seconds).
4. You’ll be taken to the home screen (shown below with patient data blurred out)



You can search for a particular patient within the “search criteria” area (boxed in red),

You can also specify a date range for the particular smear you want to see.

- After **double-clicking** the desired patient/smear, you'll be taken to general information screen for that particular smear (shown below), which basically shows you their differential

The screenshot shows the 'Result' and 'Comment' sections of the software. The 'Result' table displays the following data:

	6802043 (1)	Reported Result
WBC		
Unidentified		
Band neutrophil		
Segmented neutrophil	0.3%	0.3%
Eosinophil	6.1%	6.1%
Basophil		
Lymphocyte	71.9%	71.9%
Monocyte	19.3%	19.3%
Promyelocyte		
Myelocyte		
Metamyelocyte		
Blast (no lineage spec)		
Lymphocyte, variant form		
Plasma cell		
Other		
Immature Granulocyte	1.8%	1.8%
Non-WBC		
Erythroblast (NRBC)	0.9%	0.9%
Giant thrombocyte		
Thrombocyte aggregation		
Smudge cell	20.2%	20.2%
Artefact	11.4%	11.4%
RBC		

The 'Comment' section shows a table with the following data:

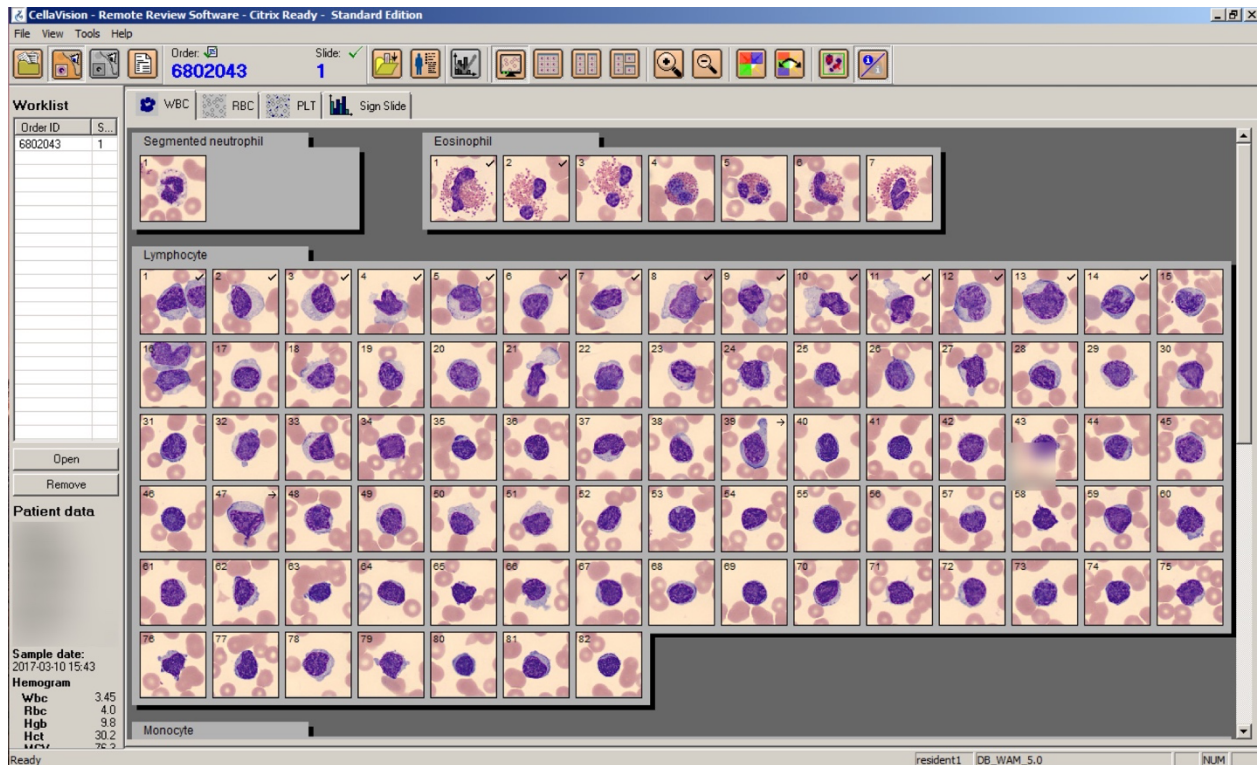
	6802043 (1)
Exclusion comment	
WBC comment	
WBC cell class comments	
Unidentified	
Band neutrophil	
Segmented neutrophil	
Eosinophil	
Basophil	
Lymphocyte	Fewer than 10% Reactive Lymphs not
Monocyte	
Promyelocyte	
Myelocyte	
Metamyelocyte	
Blast (no lineage spec)	
Lymphocyte, variant form	
Plasma cell	
Other	
Immature Granulocyte	
Non-WBC cell class comments	
Erythroblast (NRBC)	
Giant thrombocyte	
Thrombocyte aggregation	
Smudge cell	
Artefact	
RBC comment	
PLT comment	

Order comment: WAM tests: SMEAR1[LIS]

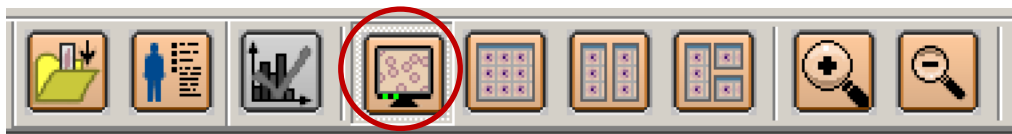
- In order to actually view some cells, click the icon in the top left corner which looks like a person staring at a white blood cell (see below, circled in red)

The screenshot shows the top toolbar of the software. The icon depicting a person looking at a white blood cell is circled in red. The toolbar also displays the order number '6802744' and slide number '1'.

7. You'll be taken to a screen like the one below.



If your screen doesn't look like the picture above, click the icon at the top of the screen that looks like a big computer monitor (below, circled in red)



8. You'll see that you can click on tabs for each type of blood cell (WBC, RBC, PLT)

- The **WBC tab** will show representative examples of each type of WBC from that patient's smear. It will generally be proportioned according to the patient's diff (i.e. lots of lymphocytes will be shown if patient has CLL). If blasts or other atypical cells are present, they should show up. FYI, smudge cells tend to show up frequently and should not automatically trigger panic 😊.
- The **RBC tab** will show a large field with a snap shot of RBCs. You can zoom in and out of this view by clicking the + and – buttons at the top of the screen. Alternatively, you can zoom by clicking and holding the left mouse button and scrolling with the mouse wheel.
 - You can also click the “individual cells” radio button just above the smear window. This automatically sorts RBCs based on shape and size

(You will notice that it sometimes overcalls schistocytes and sickle cells which may just be artifact)

- The **Plt tab** similarly shows a snapshot of a field in which platelets are visible. This window is generally not that helpful, since platelets can be visualized better in the RBC tab.

9. A very handy tool is the ability to compare cells from the patient's smear with **reference cells**. To do this, click on the icon at the top of the screen with two columns (circled in red below)



10. You will be taken to a screen that looks like the one below, in which the patient's cells are in left column and reference cells will be shown in the right column.

- Be sure the "Reference cells" radio box at the top of the right column is checked (circled in red below)
- You can now pick different types of cells from the patient and the reference library to compare

The screenshot displays the CellaVision Remote Review Software interface. On the left, a 'Worklist' table shows patient information for Order ID 6802043. The main area is divided into two columns: 'Lymphocyte' (patient cells) and 'Ref. cells in Gallery 2' (reference cells). The 'Reference cells' radio box is checked and circled in red. The interface also includes a 'WBC' count table and a 'Patient data' section.

WBC	Count	%
• Unidentified	-	-
• Band neutrophil	-	-
• Segmented neutrophil	1	0.9
• Eosinophil	7	6.1
• Basophil	-	-
• Lymphocyte	82	71.9
• Monocyte	22	19.3
• Promyelocyte	-	-
• Myelocyte	-	-
• Metamyelocyte	-	-
• Blast (no lineage spec)	-	-
• Lymphocyte, variant form	-	-
• Plasma cell	-	-
• Other	-	-
• Immature Granulocyte	2	1.8
Total	114	100

Non-WBC	Count	%
• Erythroblast (NRBC)	1	-
• Giant thrombocyte	-	-
• Thrombocyte aggregation	-	-
• Smudge cell	23	-
• Not classed	-	-

Hemogram	Value
Wbc	3.45
Rbc	4.0
Hgb	9.8
Hct	30.2
MCHC	32.5