

QUICK-START GUIDE

NED.Micro.DH
Nano Eye Device - Digital Hematology





The journey into digital hematology...

Made in Italy

DEFINITIONS AND ACRONYMS

- «NTP» NTP Nano Tech Projects SRL.
- «NED.Micro.DH» Nano Eye Device for Digital Hematology.
- «NED.Micro.DP» Nano Eye Device for Digital Pathology.
- «WBC» White Blood Cell.
- «RBC» Red Blood Cell.
- «AIC» Automatic Images Collector.
- «QC» Quick Counting.
- «AF» Autofocus.
- «FHD» Full High-Definition screen.

Type of Cell [Tag]

- [M] Monocyte
- [L] Lymphocyte
- [N] Neutrophil
- [E] Eosinophil
- [B] Basophil
- [MIEL] Myelocyte
- [MET] Metamyelocyte
- [PROM] Promyelocyte
- [BL] Blast
- [PL] Plasm
- [LA] Lymph-Abnormal
- Erythrocyte (Red Blood Cell)
- Platelet



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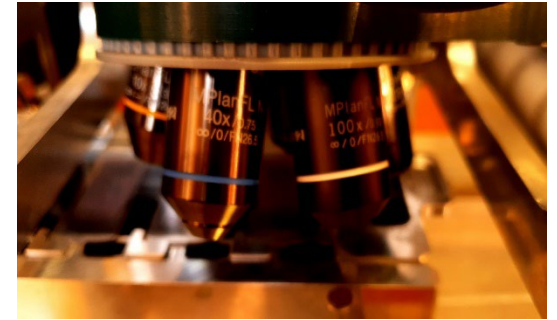
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INTRODUCTION

The future of image analysis of peripheral blood smear in real time

NED.Micro.DH is a digital microscope for hematology developed on the proprietary platform NED.Micro, the same developed and used for the NED.Micro.DP product for applications in Digital Pathology, thus inheriting many of its characteristics and features.

NED.Micro.DH is a tangible catalyst for hematology digitization making it easy to approach thanks to a real-time image transmission system that employs a dedicated streaming application and proprietary management software.

Through the software dedicated to white blood cell differential, both data and images for each WBC are stored and can be called back for a possible review of the case.

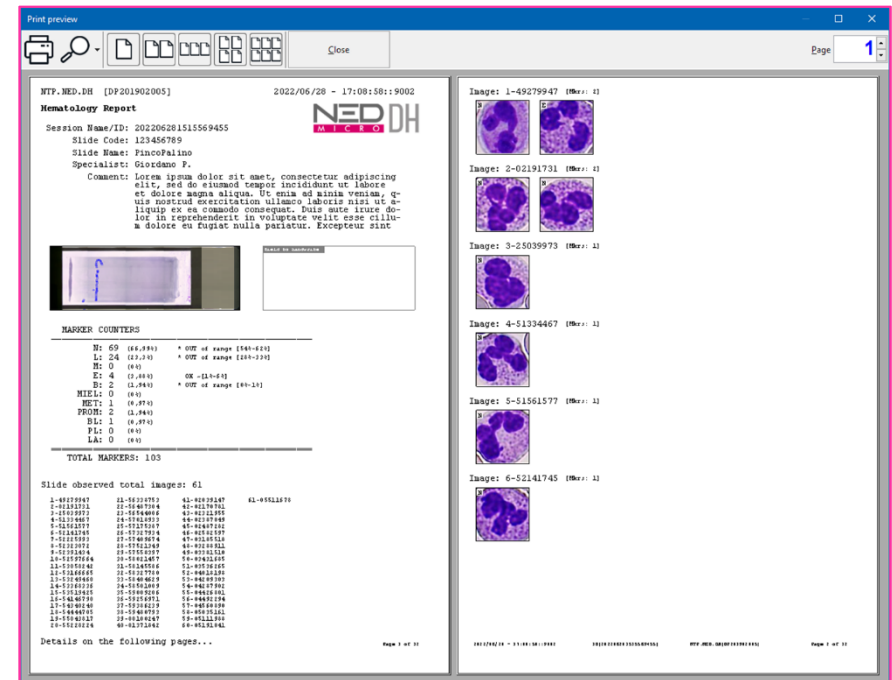
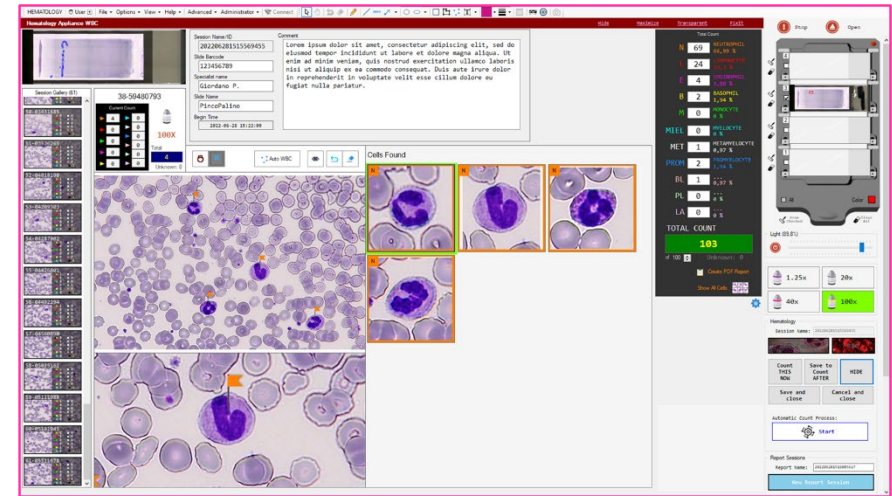
NED.Micro.DH can be used instead of the classic light microscope through the use of an external keypad, allowing connection to the LIS and data transfer without the need of manual transcription.

NED.Micro.DH can be proposed as the ideal tool to connect peripheral laboratories with hub hospitals where hematology specialists are located, to control, verify, and validate data, even in real time.



WBC COUNT SESSION

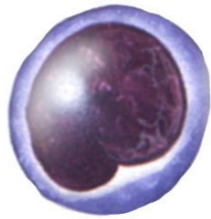
White Blood Cells



TYPES OF WHITE BLOOD CELLS



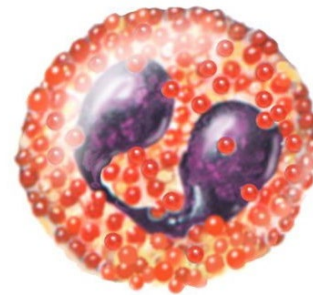
➤ Neutrophil [N] ◀



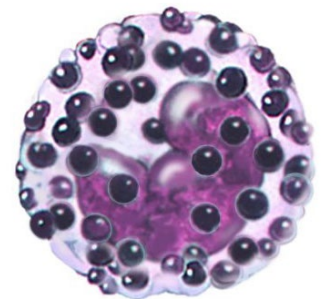
➤ Lymphocyte [L] ◀



➤ Monocyte [M] ◀



➤ Eosinophil [E] ◀



➤ Basophil [B] ◀

➤ Myelocyte [MIEL] ◀

➤ Metamyelocyte [MET] ◀

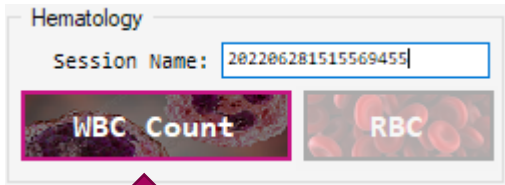
➤ Promyelocyte [PROM] ◀

➤ Blast [BL] ◀

➤ Plasm [PL] ◀

➤ Lymph-Abnormal [LA] ◀

CREATE A WBC COUNT SESSION

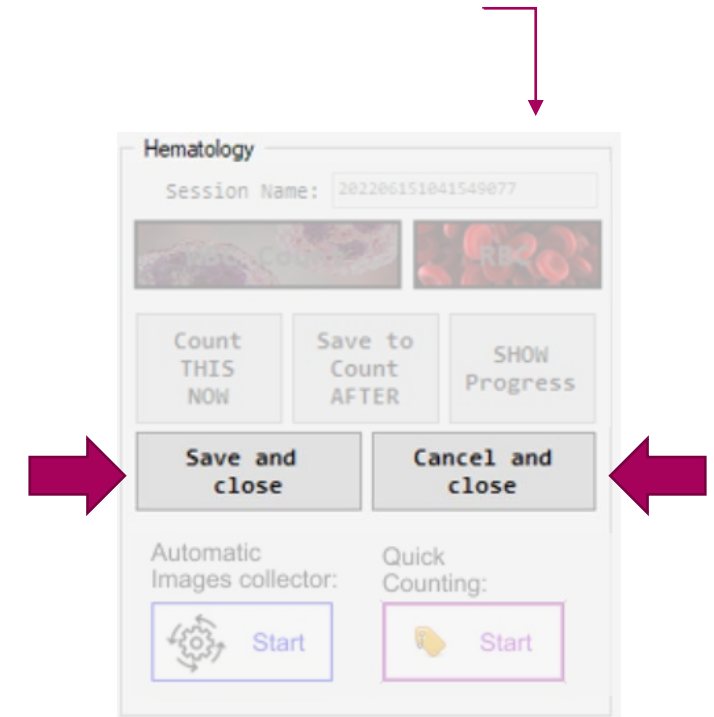
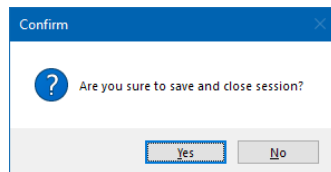
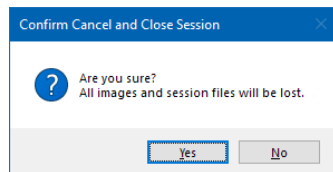


On the panel Hematology, in the main interface sidebar, enter a name for the entire session in the designated box and click «WBC Count».

After the WBC session has been started the control panel will be displayed.

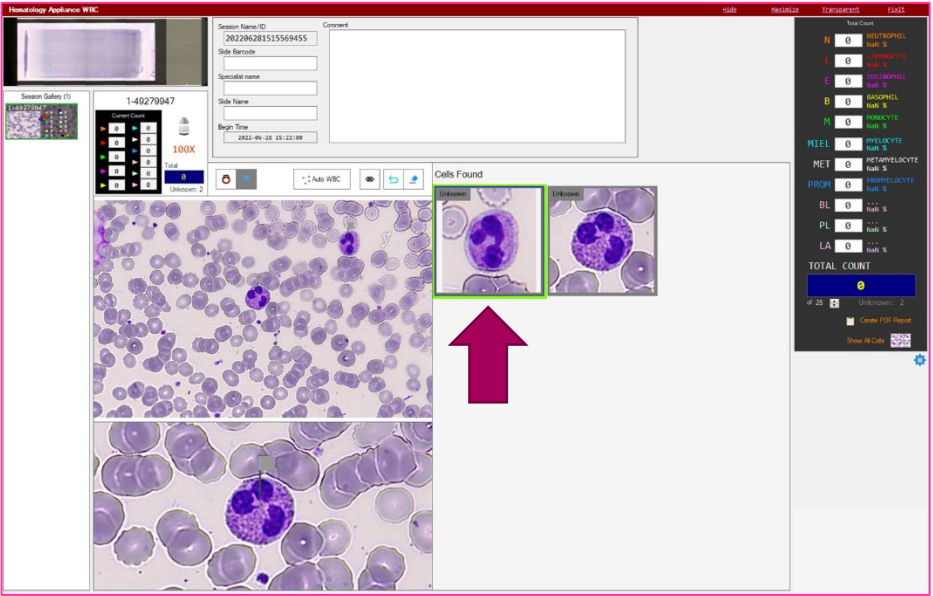
CANCEL THE SESSION TO START AGAIN OR SAVE AND CLOSE IT

Click «Cancel and Close» or «Save and Close» in the control panel and accept the confirmation message.

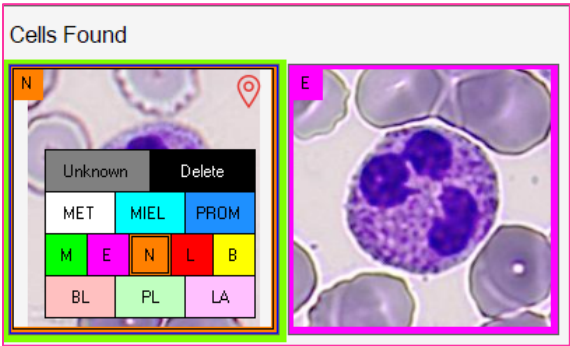


HOW TO COUNT THE WBCs ?

On the control panel click «Count This Now» to freeze the real-time image and switch to the count WBC interface.



Placing the mouse pointer over one of the cells automatically detected (in the «Cells Found» area) a context menu will be displayed where the user can manually classifying the cell, indicating the type.



Repeat for every cell in the area.

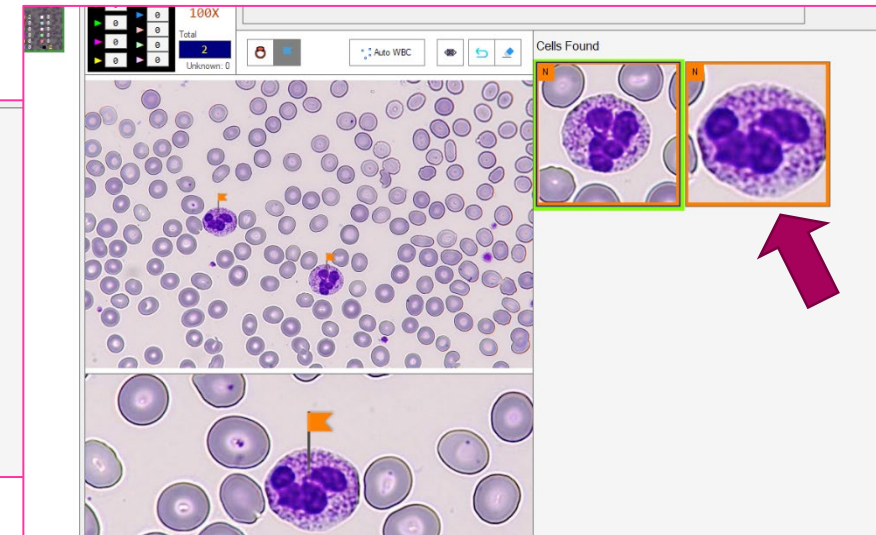
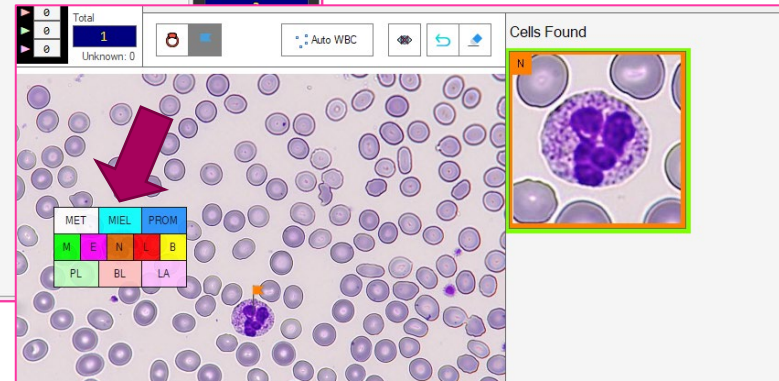
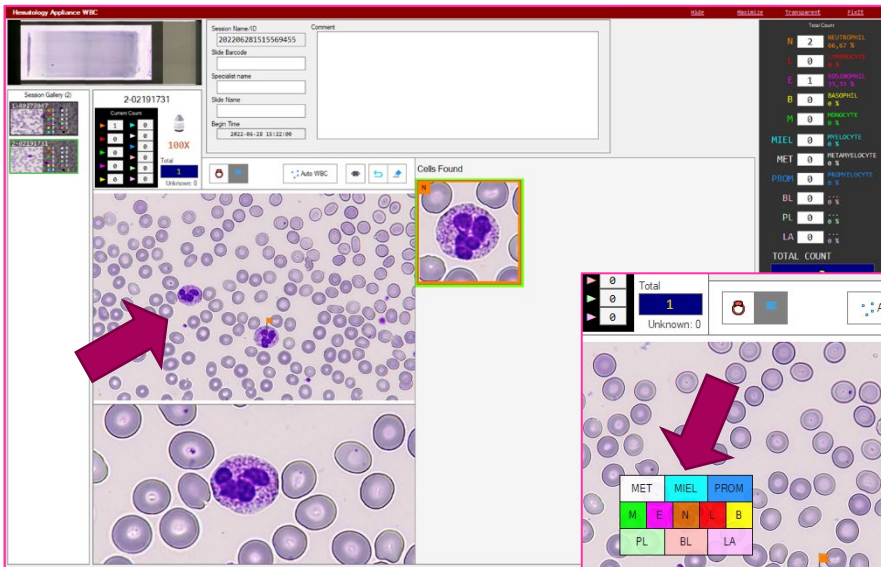


It is also possible to save the real-time image in the gallery and count the WBC later by clicking on «Save to Count After».

WHAT IF I DON'T FIND ALL THE CELLS IN THE IMAGE IN THE «CELLS FOUND» AREA ?

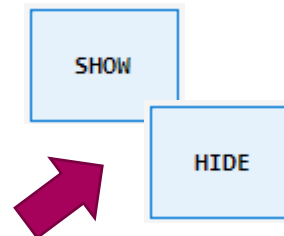
In this case the cells can be counted and added manually: place the mouse pointer on the desired cell and click to display the context menu to tag and possibly identify the cell. Then it will be displayed in the «Cells Found» area.

- ① When a cell is manually added or removed both partial and total count numbers are automatically updated.

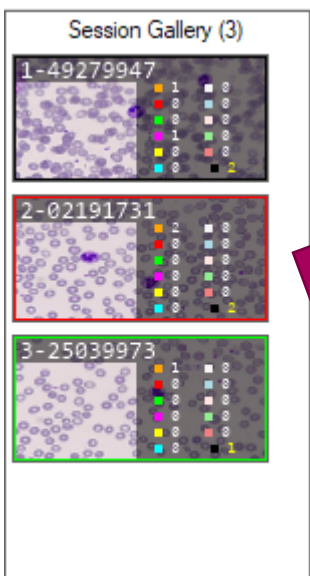


RETURN TO THE *REAL-TIME* IMAGE

It is always possible to switch between the count session interface and the real-time imaging by clicking the «**Show/Hide**» button in the control panel.



- ① Alternatively, also keyboard shortcuts can be used.



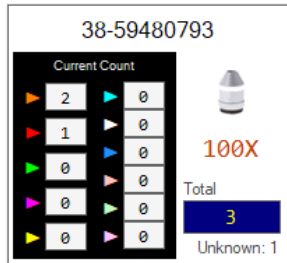
RECALL AN IMAGE PREVIOUSLY ANALYZED

Click on the desired image in the gallery in the left side of the WBC count session interface.

The image is displayed together with possible cells previously identified, and the markers can be modified or deleted. It is also possible to visualize the cell in *Real-Time*.

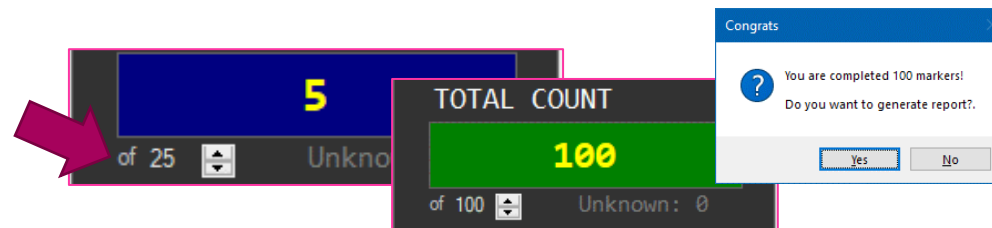
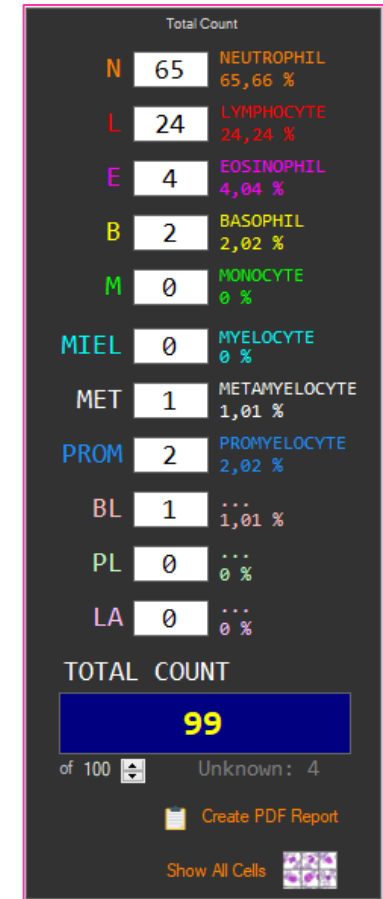
COUNTERS

There are two panels in the WBC count session: one for the partial count referring only to the selected image; the other for the total count referring to all images of the session.



i In the partial count panel also image ID and the used objective are displayed.

i In the total count panel it is possible to change the total number of cells that must be detected; once this value is reached a message will appear.



SLIDE DATA

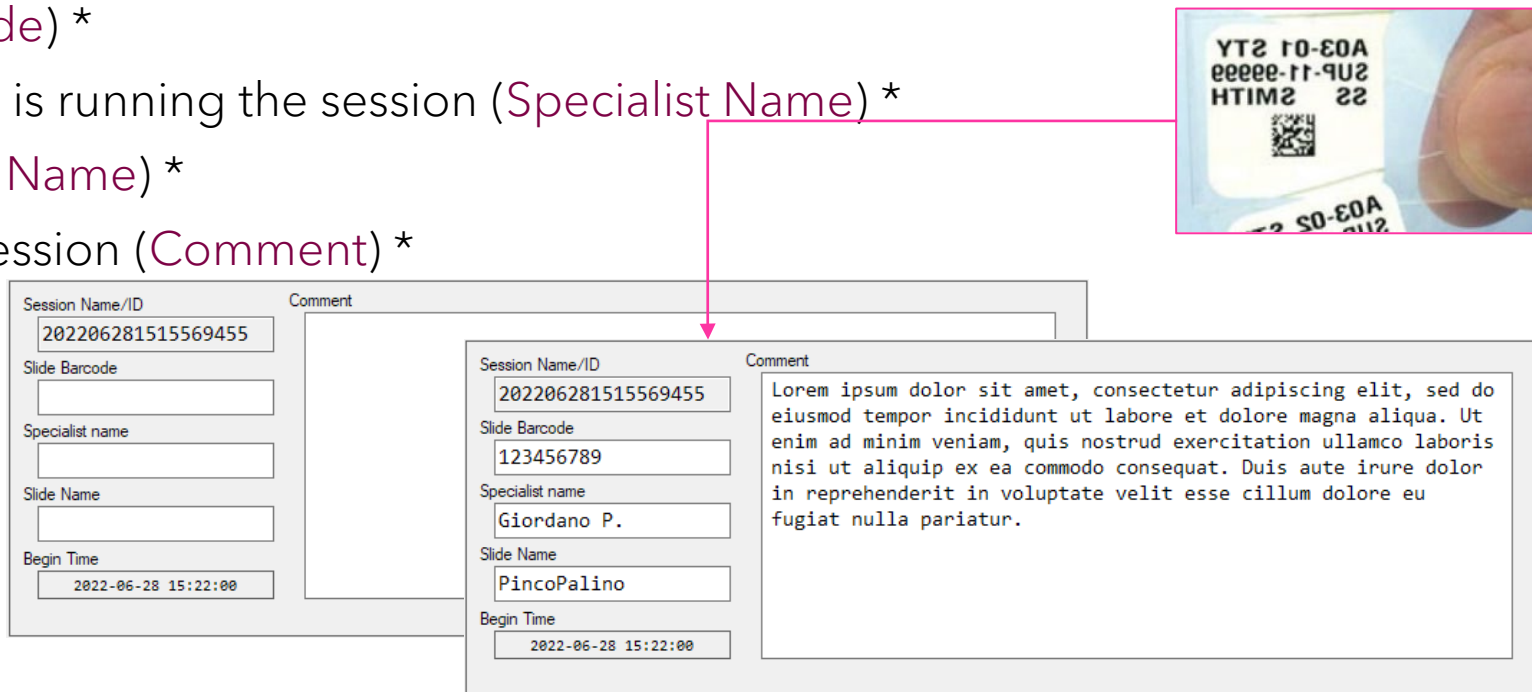
It is possible to add slide data; they eventually will be saved and displayed in the final *Report*.

① The name/*ID* of the session must be added at the beginning of the session and cannot be modified afterwards.

Available boxes:

- Slide number (*Slide Barcode*) *
- Name of the specialist that is running the session (*Specialist Name*) *
- Name of the patient (*Slide Name*) *
- Notes/comments on the session (*Comment*) *

* Optional

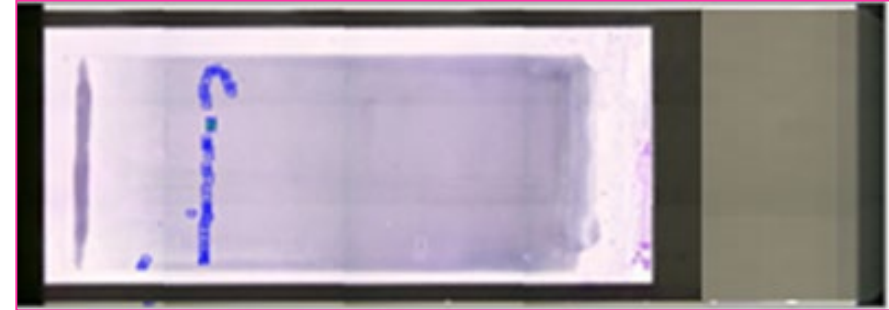


The diagram illustrates the data entry process for a WBC count session. It shows two forms side-by-side. The first form is partially filled with example data. The second form is also filled with example data, and a pink arrow points from a barcode on a slide (labeled 'YT2 10-80A 00000-11-902 HTIM2 22') to the 'Slide Barcode' field in the second form.

Field	Form 1 (Left)	Form 2 (Right)
Session Name/ID	202206281515569455	202206281515569455
Slide Barcode		123456789
Specialist name		Giordano P.
Slide Name		PincoPalino
Begin Time	2022-06-28 15:22:00	2022-06-28 15:22:00
Comment		Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

MINIMAP

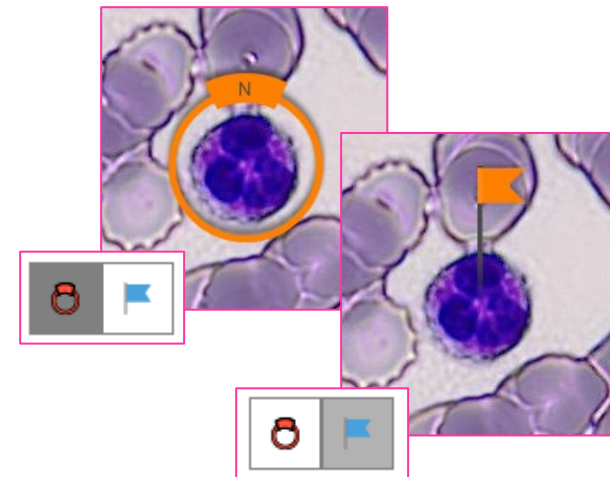
It is possible to understand where the image currently displayed has been detected within the slide through the minimap, placed on top left of the WBC count session interface.



- ① The region outlined in green corresponds to the image currently displayed; other regions outlined in blue correspond to the location of all the other images in the gallery. It is then possible to have an overall view of the path during the count session.

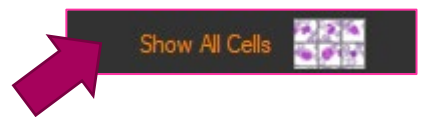
WBC MARKER

It is possible to choose among two possible markers to indicate the WBC in the displayed image: one with a ring shape, the other resembling a flag.

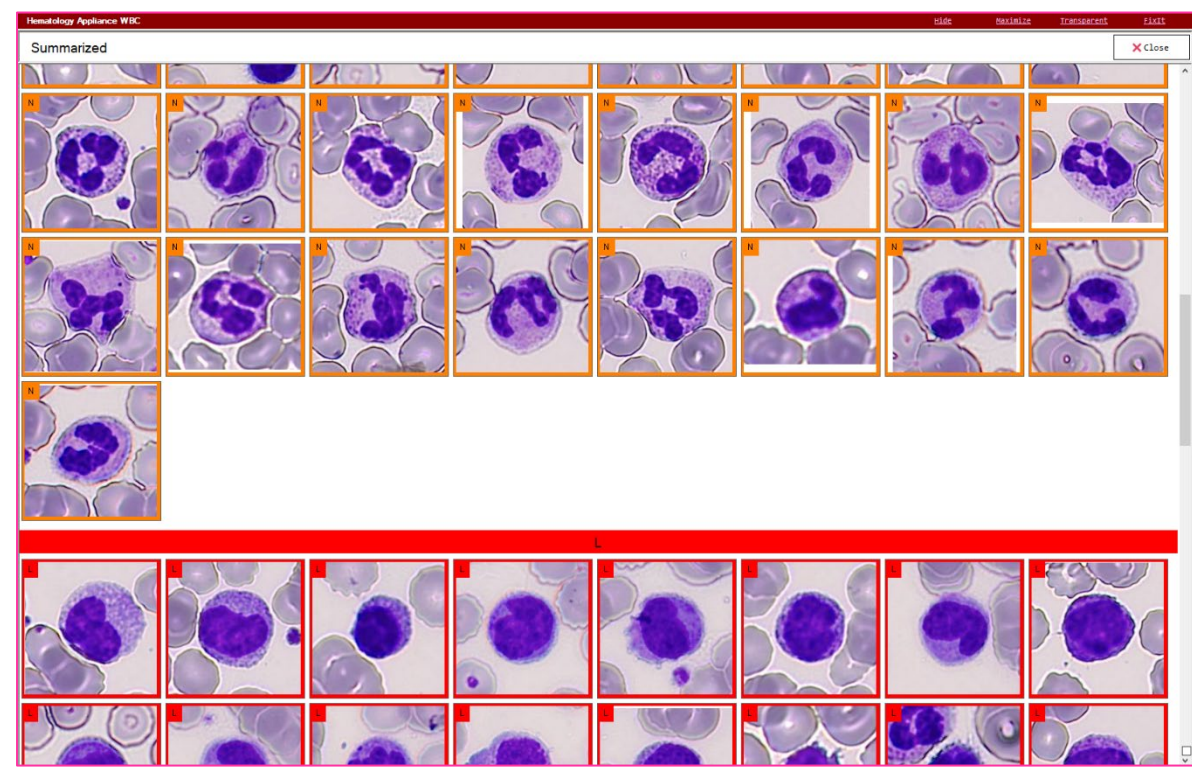
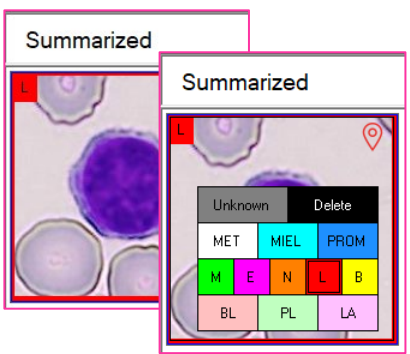


PANEL WITH ALL CELLS

Click the «Show all cells» button to open a summary panel showing all the identified cells..

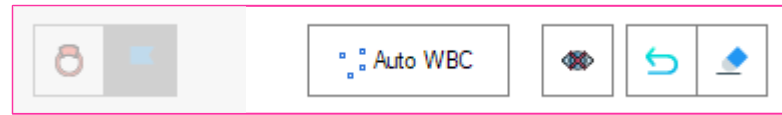


- i Also in this panel it is possible to change the classification through the context menu by placing the mouse pointer and click on the desired cell.

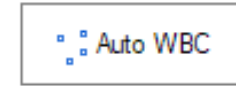


OTHER OPTIONS OF THE MENU *TOOLS*

Beyond the marker type, there are 4 more options in the menu *tools* of the current displayed image:



- Auto WBC delete all the markers in the current image and start again the automatic identification procedure of all the cells.
- Hide/Show hide or show all the markers in the current image.
- Undo deletes only the last added marker in the current image.
- Clear All deletes all the markers in the current image.

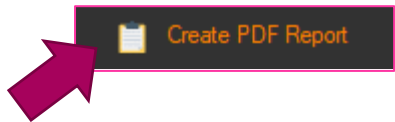


① Everytime a marker is deleted, both partial and total count counters are updated automatically.

PRINT OR SAVE A REPORT

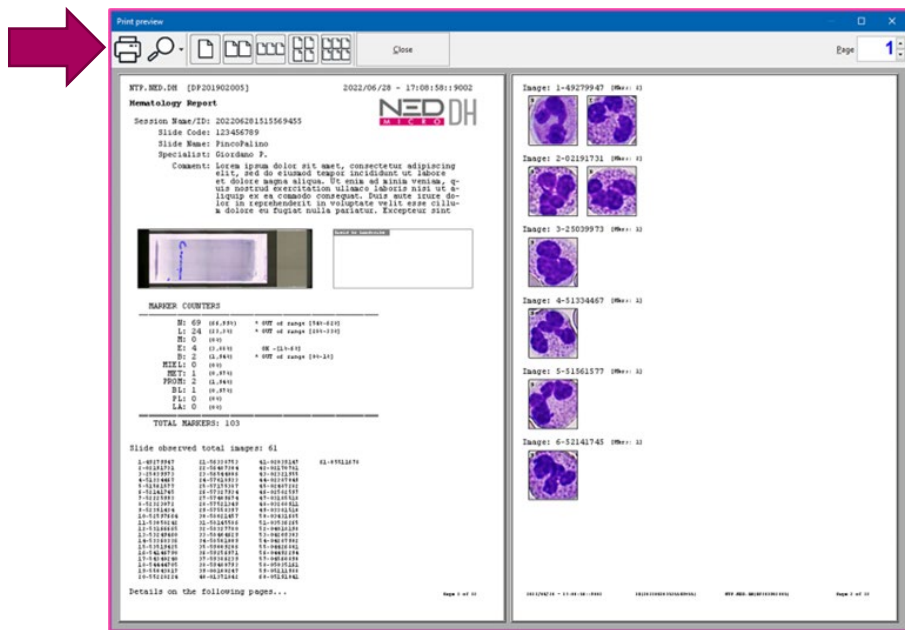
Click the button «**Create PDF Report**» in the WBC count session interface.

A preview of the report will be displayed.



① From this window it is possible to print the report or save it as a.pdf file

① In the first page of the report all the slide data are displayed.

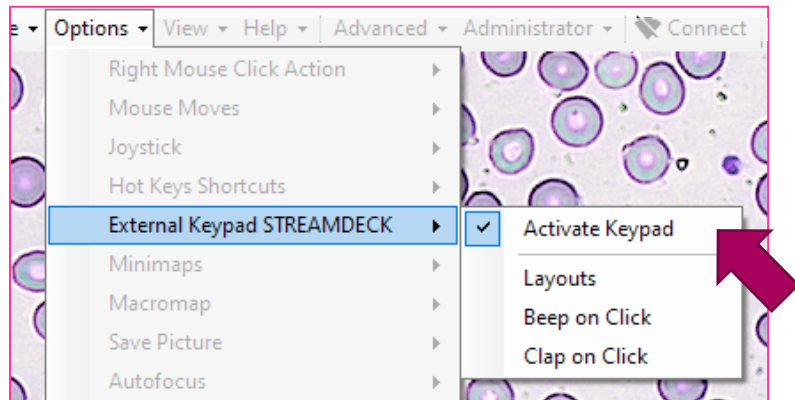


① In the following pages all the cells identified and classified during the session are displayed.

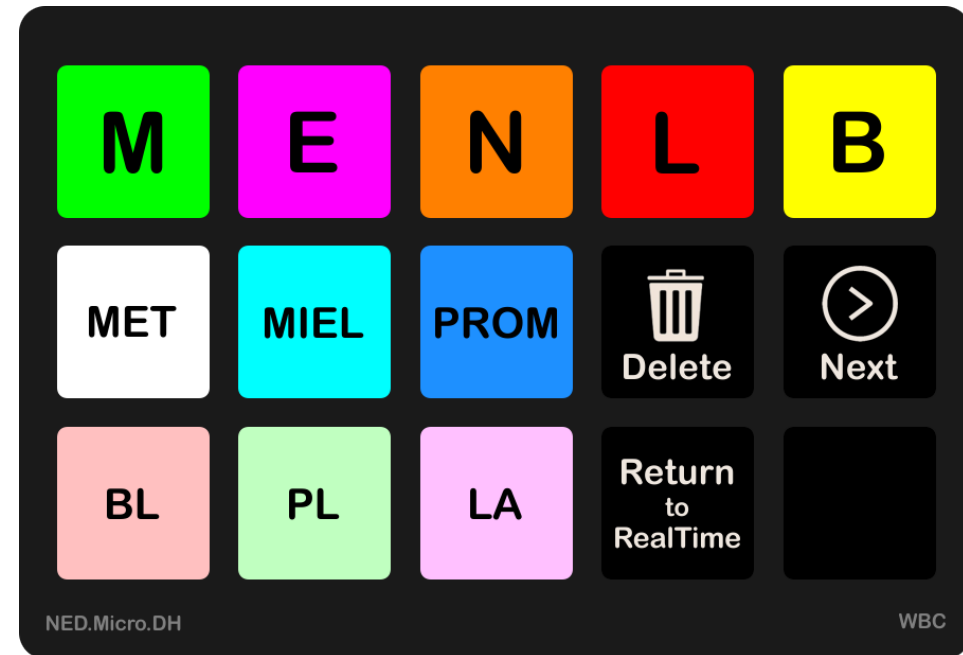
EXTERNAL KEYPAD

It is possible to use the external keypad to speed up the WBC counting procedure.

It can be activated in the menu *Options* of the main interface.

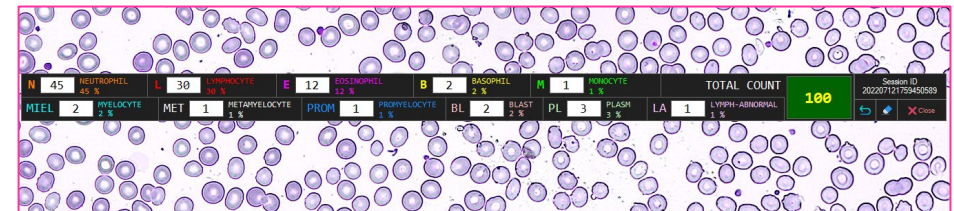
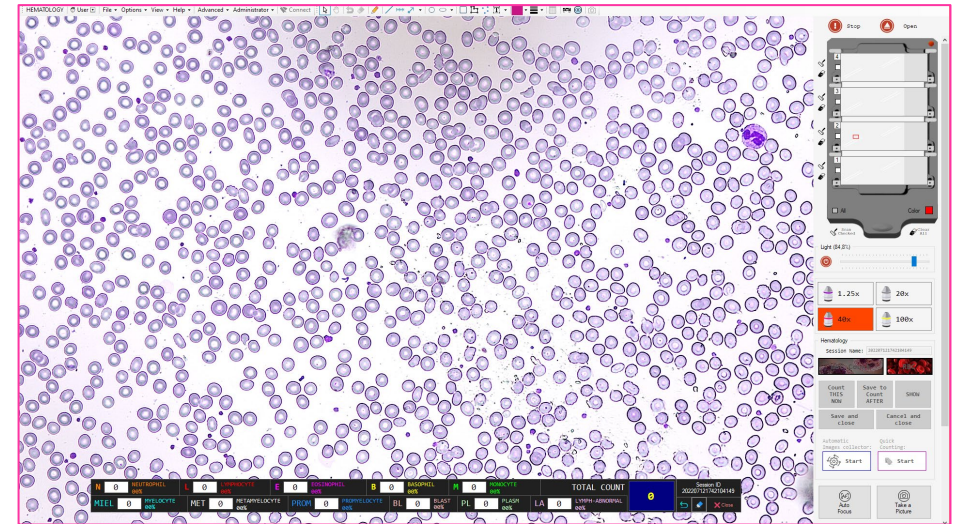


- i In the keypad all the available functions are displayed; in addition to classify and delete the cell, it is possible to return to *Real-Time* navigation with a single key.





WBC QUICK COUNT SESSION

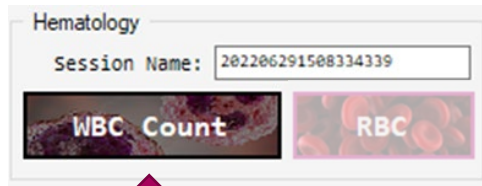


STILL WITH THE OLD METHODS?

When you will experience
our **NEDDH**
MICRO **vs**
you will never
come back to the
optical microscope...



CREATE A WBC QUICK COUNT SESSION

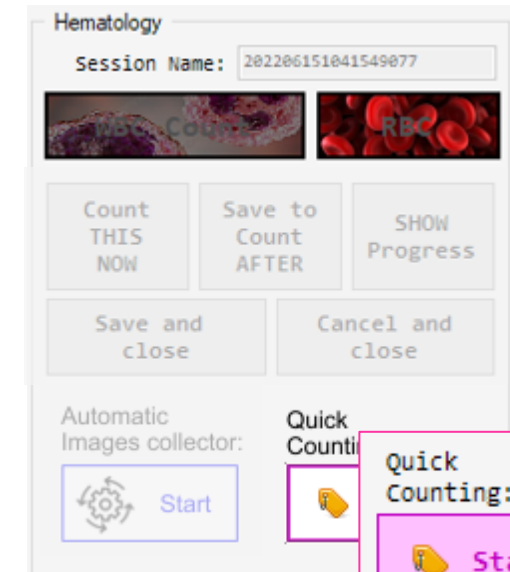
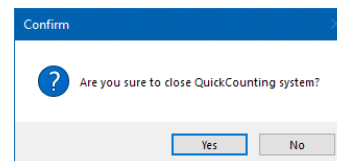


On the panel Hematology, in the main interface sidebar, enter a name for the entire session in the designated box and click «WBC Count».

Once the WBC session has been created click the button «Start» under the title «Quick Counting».

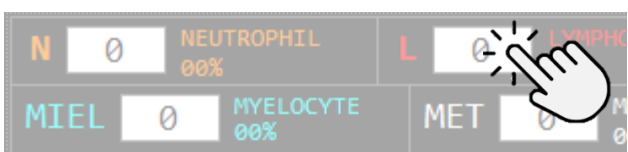
CANCEL AND CLOSE THE SESSION

Click «Close» in the control panel and accept the confirmation message.



COUNT THE CELLS IN THE QUICK SESSION

Use the external keypad or click in the box of the desired cell type in the quick count panel.



- i Both absolute values and corresponding percentages will update at every click.

N	<input type="text" value="0"/>	NEUTROPHIL 0 %	L	<input type="text" value="0"/>	LYMPHOCYTE 0 %	E	<input type="text" value="0"/>	EOSINOPHIL 0 %	B	<input type="text" value="0"/>	BASOPHIL 0 %	M	<input type="text" value="0"/>	MONOCYTE 100 %	TOTAL COUNT			<div>0</div>	Session ID 202207141705315962	
MIEL	<input type="text" value="0"/>	MYELOCYTE 0 %	MET	<input type="text" value="0"/>	METAMYELOCYTE 0 %	PROM	<input type="text" value="0"/>	PROMYELOCYTE 0 %	BL	<input type="text" value="0"/>	BLAST 0 %	PL	<input type="text" value="0"/>	PLASM 0 %	LA	<input type="text" value="0"/>	LYMPH-ABNORMAL 0 %			

N	10	NEUTROPHIL 41,67 %	L	9	LYMPHOCYTE 37,5 %	E	4	EOSINOPHIL 16,67 %	B	0	BASOPHIL 0 %	M	1	MONOCYTE 4,17 %	TOTAL COUNT			24	Session ID 202207141705315962	
MIEL	0	MYELOCYTE 0 %	MET	0	METAMYELOCYTE 0 %	PROM	0	PROMYELOCYTE 0 %	BL	0	BLAST 0 %	PL	0	PLASM 0 %	LA	0	LYMPH-ABNORMAL 0 %			

N	59	NEUTROPHIL	59 %	L	28	LYMPHOCYTE	28 %	E	3	EOSINOPHIL	3 %	B	2	BASOPHIL	2 %	M	2	MONOCYTE	2 %	TOTAL COUNT			100	Session ID 202207141705315962		
MIEL	1	MYELOCYTE	1 %	MET	1	METAMYELOCYTE	1 %	PROM	1	PROMYELOCYTE	1 %	BL	1	BLAST	1 %	PL	1	PLASM	1 %	LA	1	LYMPH-ABNORMAL		1 %		

- i The quick count panel is always visible while the session is running.

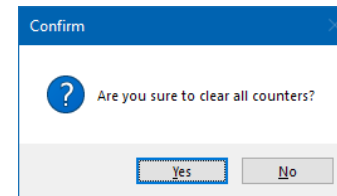
OTHER OPTIONS OF THE QUICK COUNT PANEL

«Undo» to delete the last counted cell.

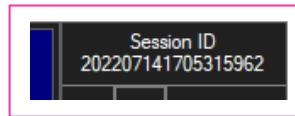
«Clear All» to delete all the cells and reset the counters.



① Message to confirm the reset.



Session ID



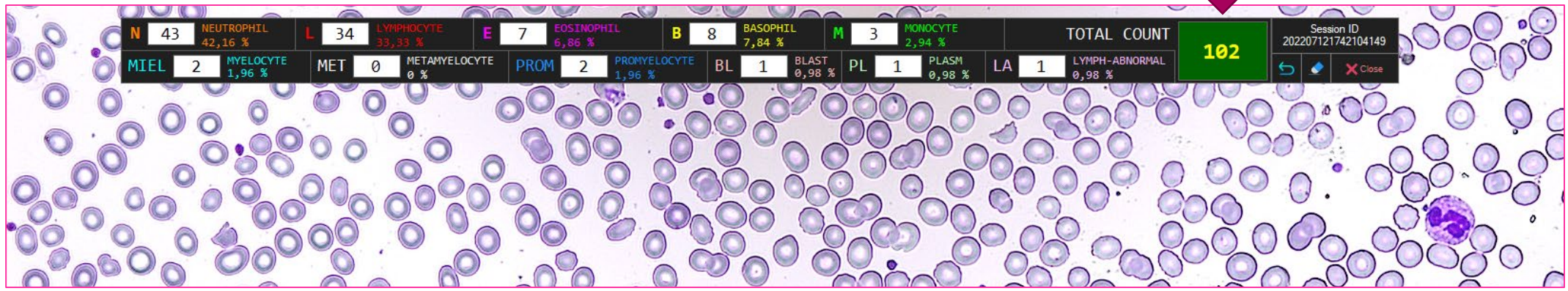
① Clicking and dragging on the session ID it is possible to move the panel to place it in the desired position of the screen.



MODIFY THE TOTAL NUMBER OF CELLS TO COUNT

In the quick count panel by right-clickling on the present total number, a field will appear where the total goal number can be updated.

- i Once the goal number is reached the box with the total counter will be highlighted in green to indicate that the count is completed.



EXTERNAL KEYPAD

The external keypad interface contains the same functionalities of the quick count panel.

- ① Available buttons and boxes:
- the total count in the first button;
 - the eleven buttons corresponding to the cell types;
 - «Undo» e «Clear All» buttons.





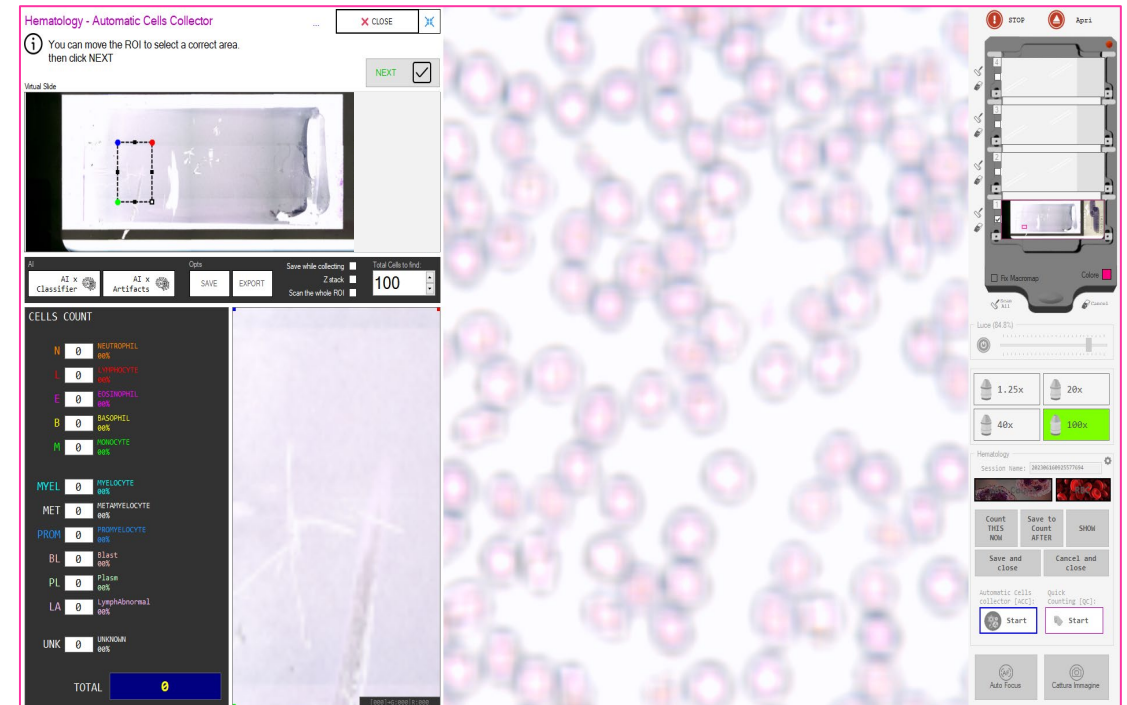
AUTOMATIC CELL COLLECTION

for WBC count

RUO



For Research
Use Only



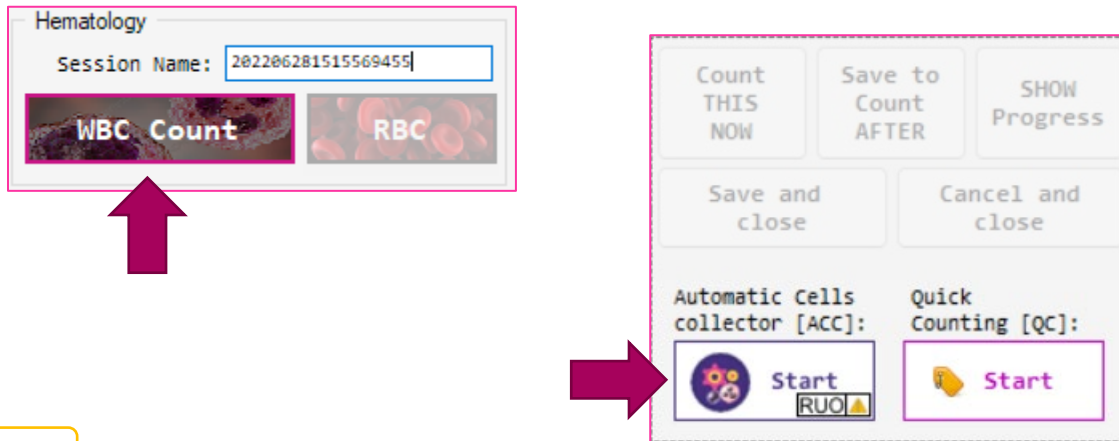


AUTOMATIC CELL COLLECTION (ACC)

The automatic cell collection is a sub-function of the WBC count system; before using it, it is necessary to create a new WBC count session.

As shown previously, it is necessary to enter a ID session name and click the «WBC Count» button.

Then click the button « Start» under the title «Automatic Cells Collector» in the control panel, to open the interface of automatic collection.



- ① Since this is a sub-function of the WBC count session, all the images collected during the procedure can be exported to the count WBC interface.

RUO 

HOME INTERFACE

Buttons to close and finish the procedure or minimize the window

Virtual slide (minimap)

Menu for setup, save/export images

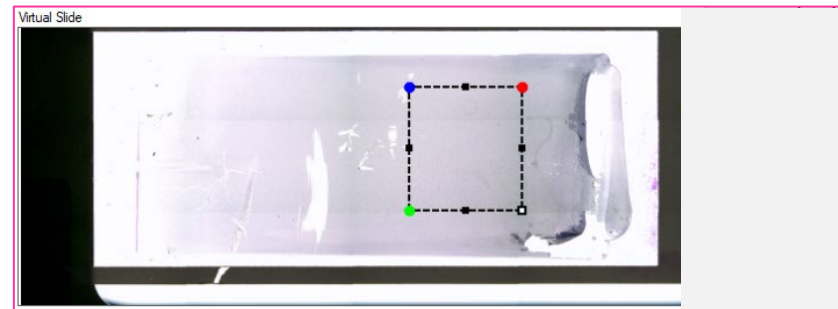
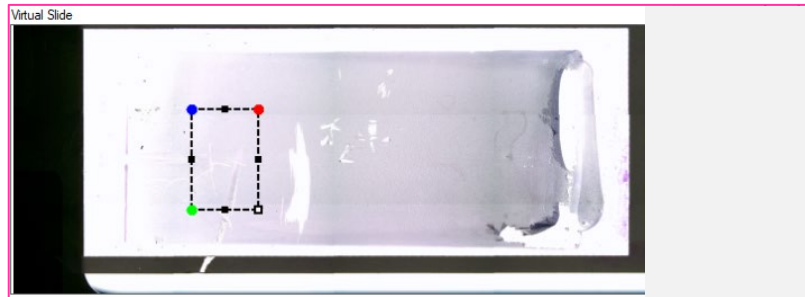


real-time image



SELECT THE REGION OF INTEREST (ROI)

It is possible to place and size the ROI inside the virtual slide, so the user can choose which region of the blood smear to analyze.



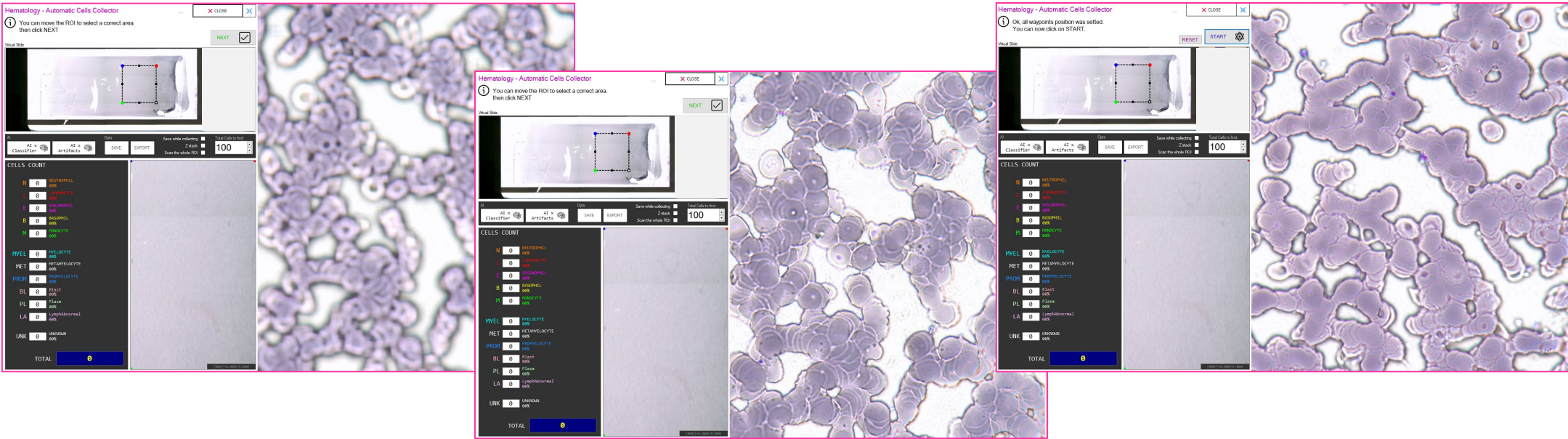
By clicking the button «Next» the next step is initiated, consisting in focusing the real-time image in three vertices of the ROI.

RUO



PRELIMINARY STEP

Focusing the image at three vertices of the ROI and then click the button «Next»; after the third point the same button changes to «Start». By clicking it the ACC will start.



i At any time the user can return to the ROI choice by clicking the button «Reset»

RESET

RUO 

START THE AUTOMATIC CELL COLLECTION

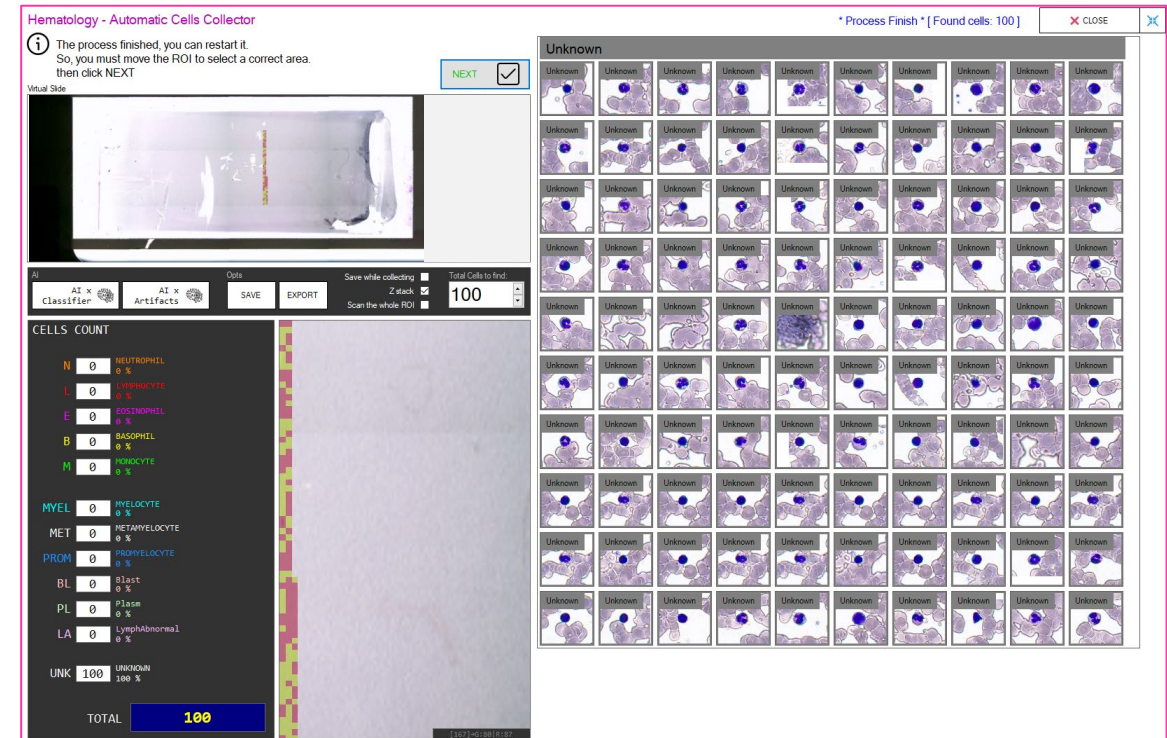
Once the ROI has been chosen, the images at the three vertices have been focused, and the procedure parameters have been setted, the ACC will start by clicking the button «**Start**».



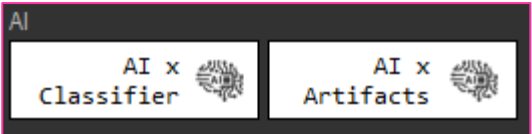
- ① The completion percentage of the procedure will appear on the top right. Anytime it is possible to abort the procedure by clicking the button «**Stop**».



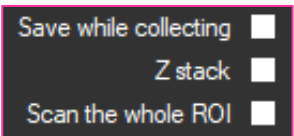
RUO



WHICH PARAMETERS CAN BE SET?



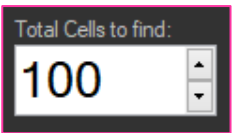
AI-based pre-classification of WBC and automatic removal of artifacts (currently available at 100x only).



Save while collecting: when selected the images of the cells will be automatically saved during the collection in a default folder.

Scan the whole ROI: when selected the system will scan the whole map, otherwise the procedure stops when the number of cells defined by the user is collected.

Z stack: when selected the system will collect for every cell several images at different focus position; the collection time increases but the quality of images increases.



The following buttons are activated at the end of the collection procedure.

Save: save all the cell images in a default folder (not necessary when «Save while collecting» is activated).

Export: export all the images to the interface of WBC count session; when the export is over the ACC interface is replaced by the WBC count session interface where all the collected images and the identified (and possibly pre-classified) cells are shown.



DETAILS ON EACH IDENTIFIED WBC

Durante il processo di raccolta o al termine, se l'utente ha attivato l'opzione z-stack, cliccando su ogni cellula potrà vedere l'immagine a diverse condizioni di fuoco.

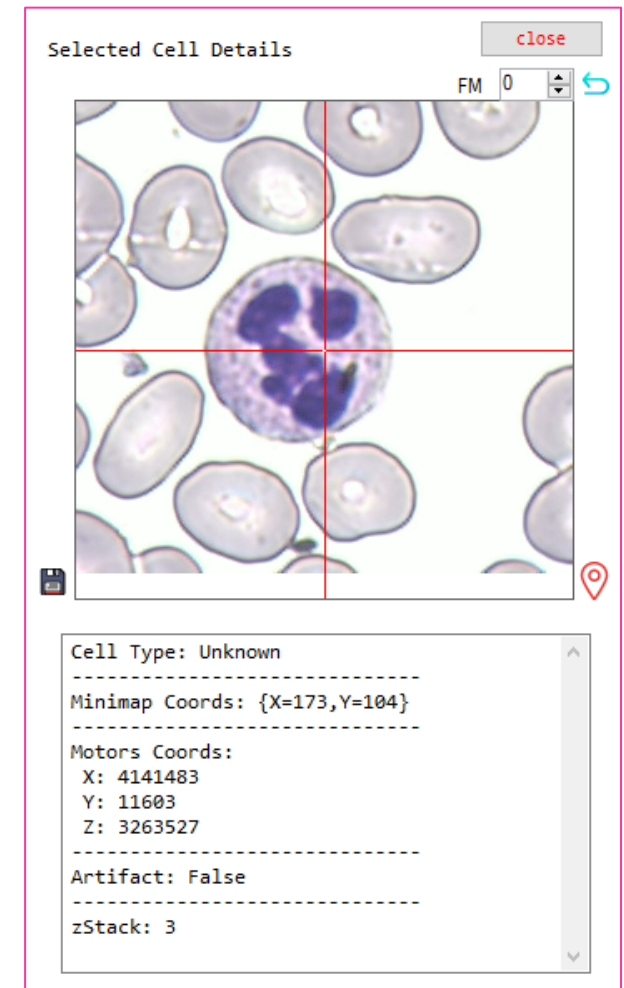
In questa finestra può svolgere determinate azioni:

close: chiude l'interfaccia.

undo: torna al primo valore di z-stack della cellula. ↶

save: salva l'immagine della cellula nel percorso predefinito. 💾

location: il microscopio si sposta sulla cellula nell'interfaccia di lavoro real-time. 📍



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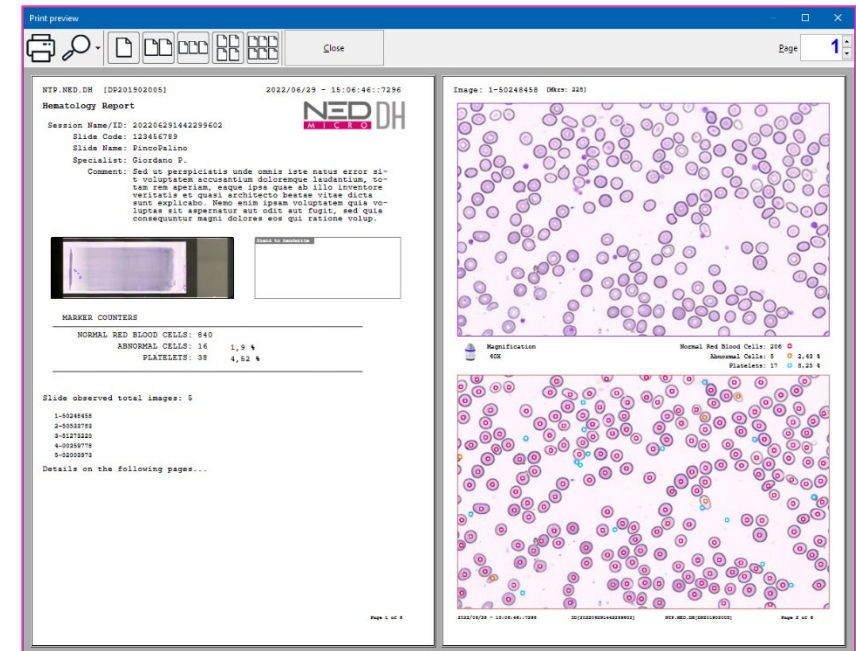
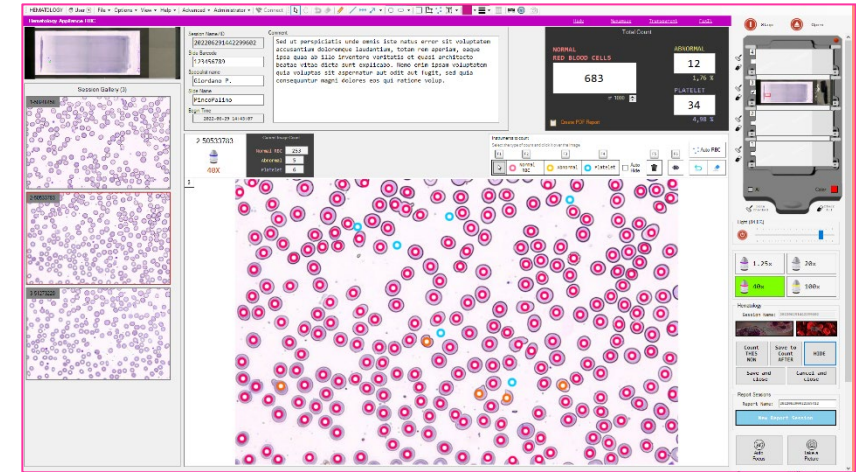
RBC COUNT SESSION

Red Blood Cells and Platelets

RUO



For Research
Use Only



RED BLOOD CELLS & PLATELETS

Our cells tags:
[Normal RBC] - [Platelet] - [Abnormal Cell]





















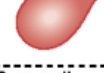









Red Blood Cell

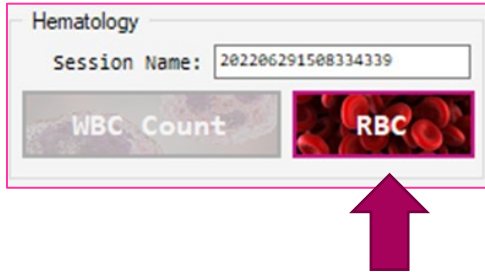


Platelet

Globuli Rossi Anomali

Size variation	Hemoglobin distribution	Shape variation		Inclusions	Red cell distribution	
Normal 	Hypochromia 1+ 	Target cell 	Acanthocyte 	Pappenheimer bodies (siderotic granules) 	Agglutination 	
Microcyte 	2+ 	Spherocyte 	Helmet cell (fragmented cell) 	Cabot's ring 		
Macrocyte 	3+ 	Ovalocyte 	Schistocyte (fragmented cell) 	Basophilic stippling (coarse) 		Rouleaux 
Oval macrocyte 	4+ 	Stomatocyte 	Tear drop 	Howell-Jolly 		
Hypochromic macrocyte 	Polychromasia (Reticulocyte) 	Sickle cell 	Burr cell 	Crystal formation HbSC  HbC 		

CREATE A RBC COUNT SESSION

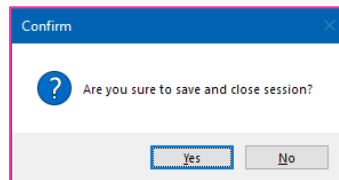
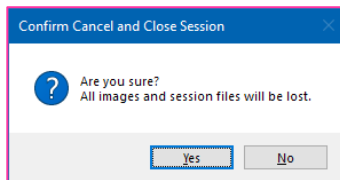
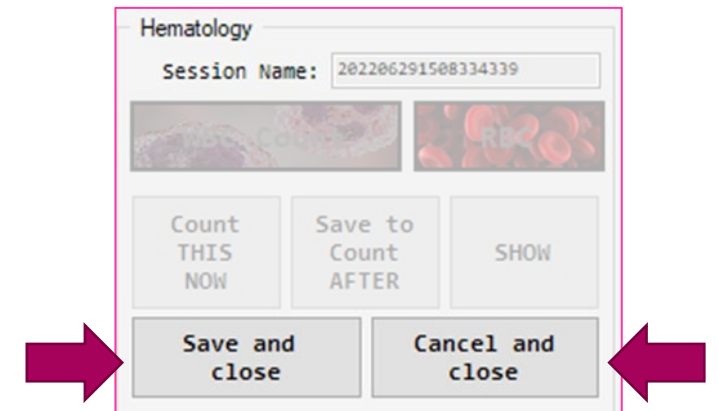


On the panel Hematology, in the main interface sidebar, enter a name for the entire session in the designated box and click «RBC».

After the RBC session has been started the control panel will be displayed.

CANCEL THE SESSION TO START AGAIN OR SAVE AND CLOSE IT

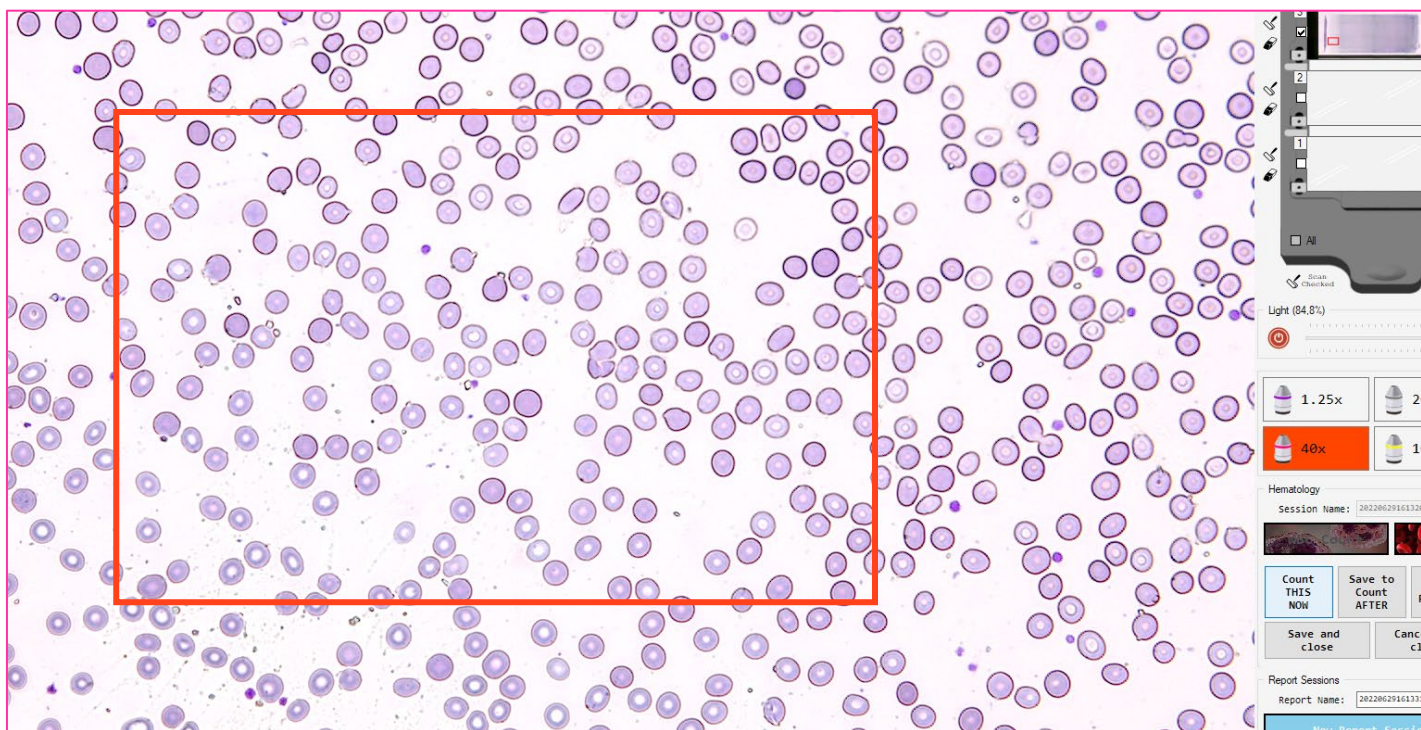
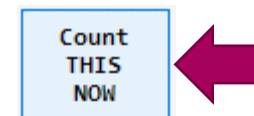
Click «Cancel and Close» or «Save and Close» in the control panel and accept the confirmation message.



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COUNT RED BLOOD CELLS AND PLATELETS

On the control panel click «Count THIS NOW» to freeze the real-time image and switch to the RBC count interface.

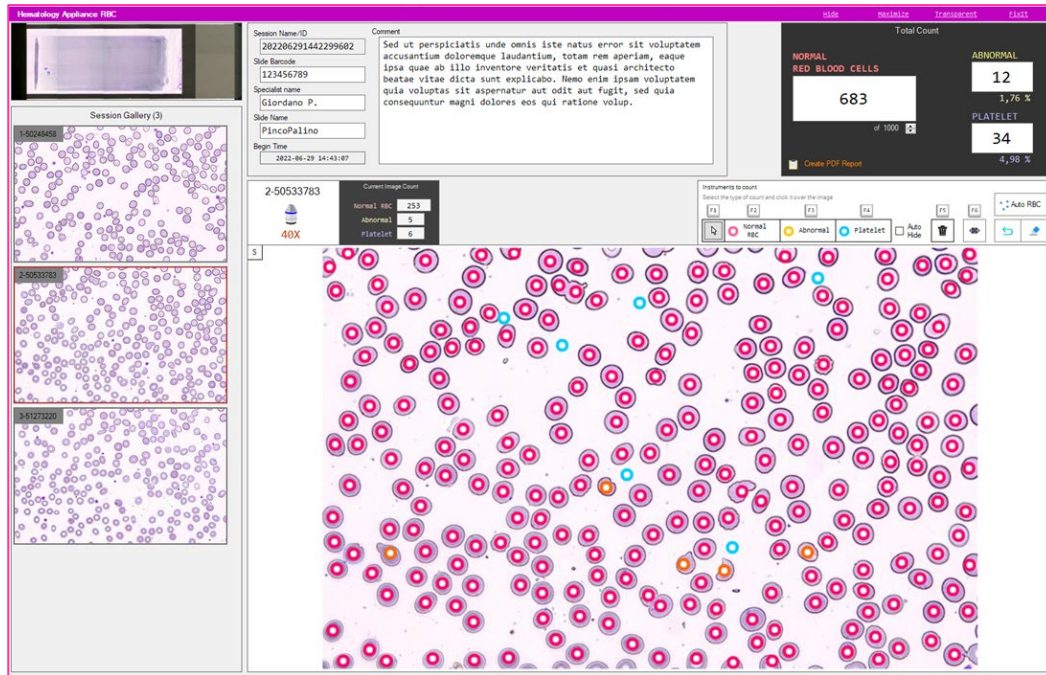


- i When the mouse pointer is on the button «Count THIS NOW» a red rectangle in the *Real-Time* image will be displayed, indicating the region of the field image that will be saved and considered for RBC count.

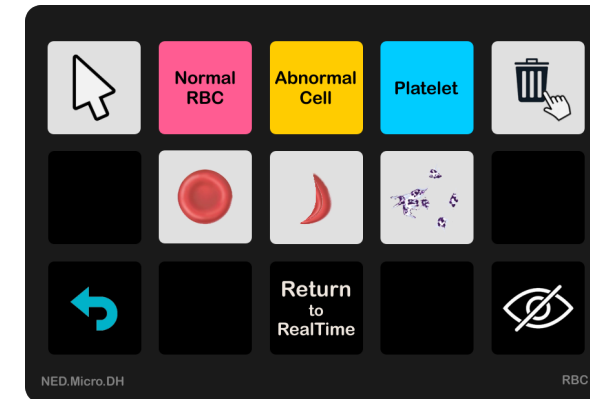
RUO 

COUNT RED BLOOD CELLS AND PLATELETS

When the RBC count interface will open all the identified cells (both red blood cells and platelets) will be highlighted with a colored marker.



- ① All the markers can be deleted or modified, and possibly added.
- ① To speed-up the procedure it is possible to use the external keypad.



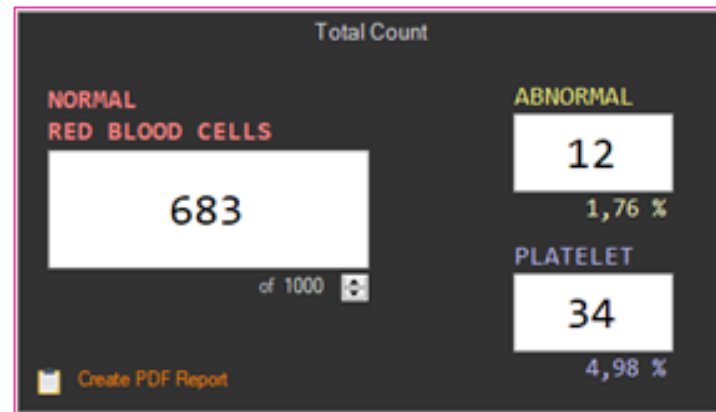
It is also possible to save the *Real-Time* image in the gallery and count the RBC later by clicking on «**Save to Count After**».

COUNTERS

There are two panels in the RBC count session: one for the partial count referring only to the selected image; the other for the total count referring to all images of the session.

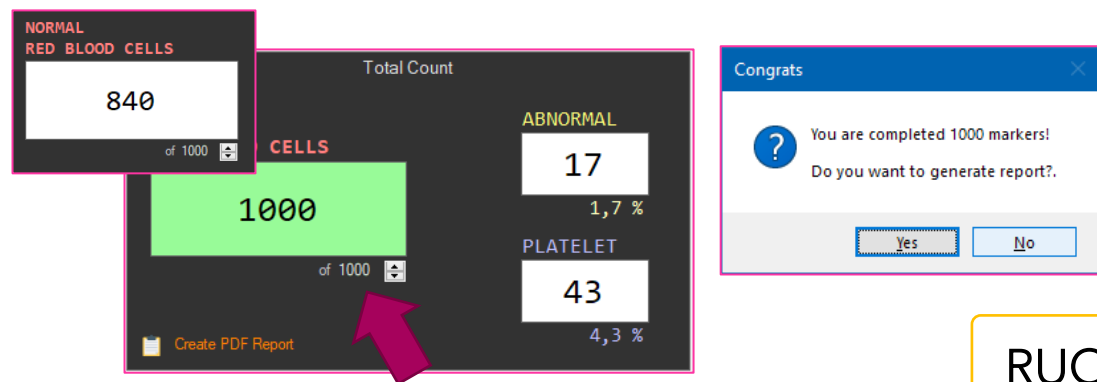


① In the partial count panel also image ID and the used objective are displayed.



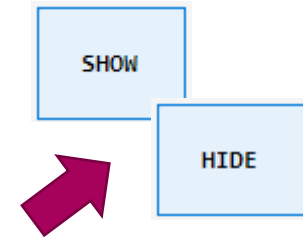
① In the total count panel it is possible to change the total number of red blood cells that must be detected; once this value is reached a message will appear.

① The absolute number and relative percentage of abnormal red blood cells and platelets is also displayed.

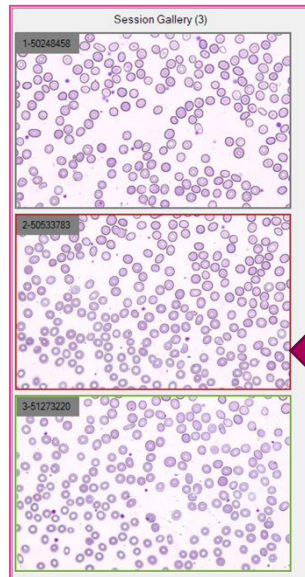


RETURN TO THE *REAL-TIME* IMAGE

It is always possible to switch between the count session interface and the *Real-Time* imaging by clicking the «Show/Hide» button in the control panel.



① Alternatively, also keyboard shortcuts can be used.



RECALL AN IMAGE PREVIOUSLY ANALYZED

Click on the desired image in the gallery in the left side of the RBC count session interface.

The image is displayed together with all the markers of identified cells; they can be deleted, modified or added, and the counters will update.

RUO 

MINIMAP

The position where the image has been detected within the slide is shown in the minimap, placed on top left of the RBC count session interface.



- i The region outlined in green corresponds to the image currently displayed; other regions outlined in blue correspond to the location of all the other images in the gallery. It is then possible to have an overall view of the path during the count session.

CHOOSE THE TYPE OF CELL

	Normal RBC	Abnormal	Platelet
	Normal RBC	Abnormal	Platelet
	Normal RBC	Abnormal	Platelet



In the panel *tools* it is possible to choose the type of cell to be added:

- Normal RBC:** normal red blood cell.
- Abnormal:** abnormal red blood cell.
- Platelet:** platelet.

- i Each type of cell is identified by a different color

After choosing the type of cell simply click the desired cell to add the marker.

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SLIDE DATA

It is possible to add slide data; they eventually will be saved and displayed in the final *Report*.

① The name/**ID** of the session must be added at the beginning of the session and cannot be modified later.

- Slide number (**Slide Barcode**) *
- Name of the specialist that is running the session (**Specialist Name**) *
- Name of the patient (**Slide Name**) *
- Notes/comments on the session (**Comment**) *

* Optional



Session Name/ID	Comment
202206291442299602	
Slide Barcode	
Specialist name	
Slide Name	
Begin Time	
2022-06-29 14:43:07	

Session Name/ID	Comment
202206291442299602	
Slide Barcode	123456789
Specialist name	Giordano P.
Slide Name	PincoPalino
Begin Time	2022-06-29 14:43:07
	Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione volup.

RUO



ALTRE OPZIONI DEL MENU *TOOLS*

Beyond the marker type, there are 6 more options in the menu *tools* of the current displayed image:



- Auto Hide hides all the markers of the cells different from the type selected, to facilitate the vision of the main image.
- Delete cell (F5) when selected deletes a marked cell by clicking the marker of the cell to be deleted.
- Hide/Show (F6) hide or show all the markers in the current image.
- Auto RBC delete all the markers in the current image and start again the automatic identification procedure of all the cells.
- Undo deletes only the last added marker in the current image.
- Clear All deletes all the markers in the current image.

- ① Everytime a marker is deleted, both partial and total count counters are updated automatically.
- ① All the options associated with a function key can be activated straight using the keyboard.

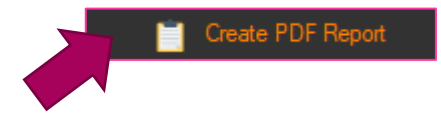


PRINT OR SAVE A REPORT

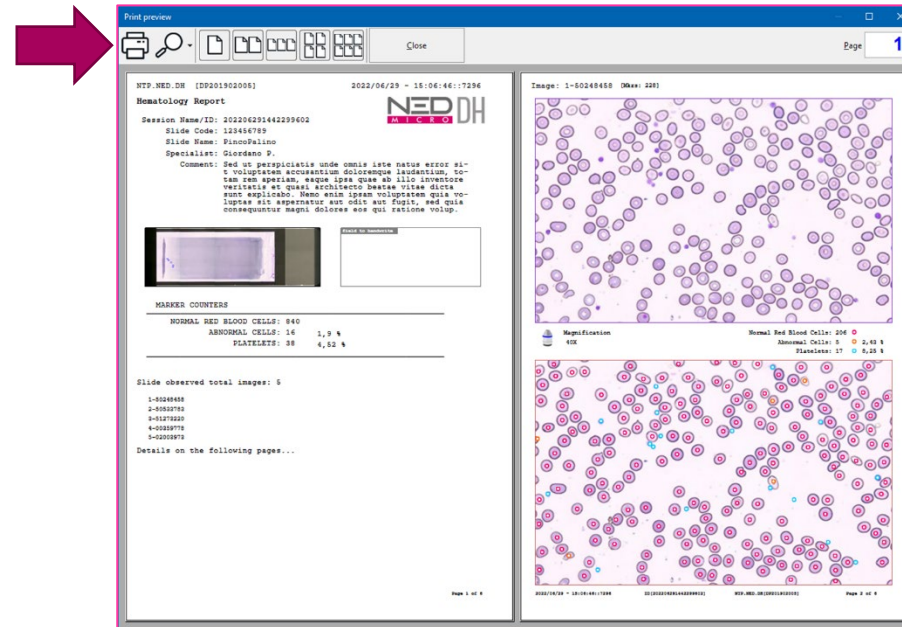
Click the button «Create PDF Report» in the RBC count session interface.

A preview of the report will be displayed.

① From this window it is possible to print the report or save it as a.pdf file

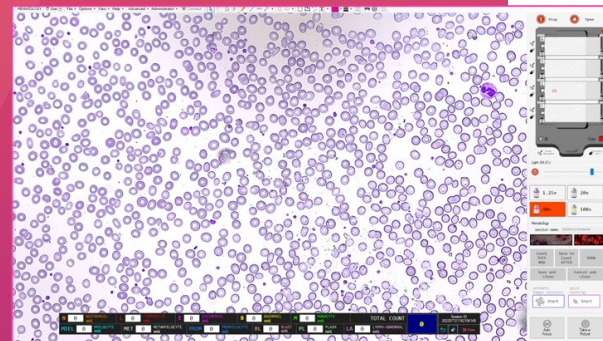
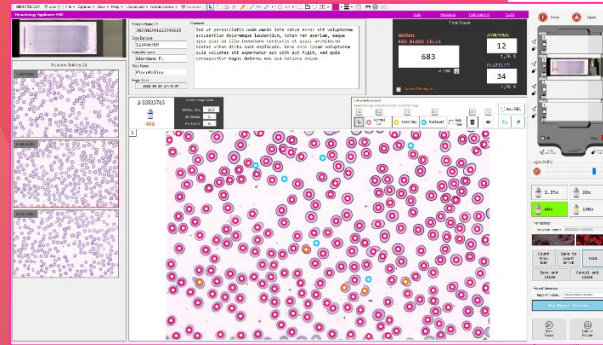
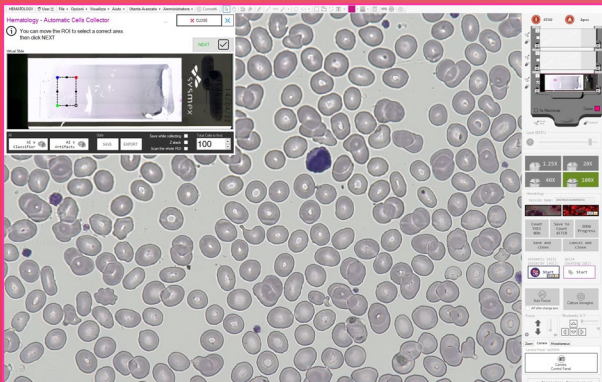
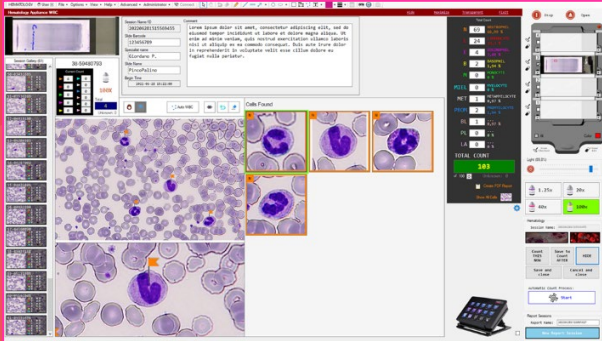


① In the first page of the report all the slide data are displayed.



① In the following pages all the cells identified and classified during the session are displayed.





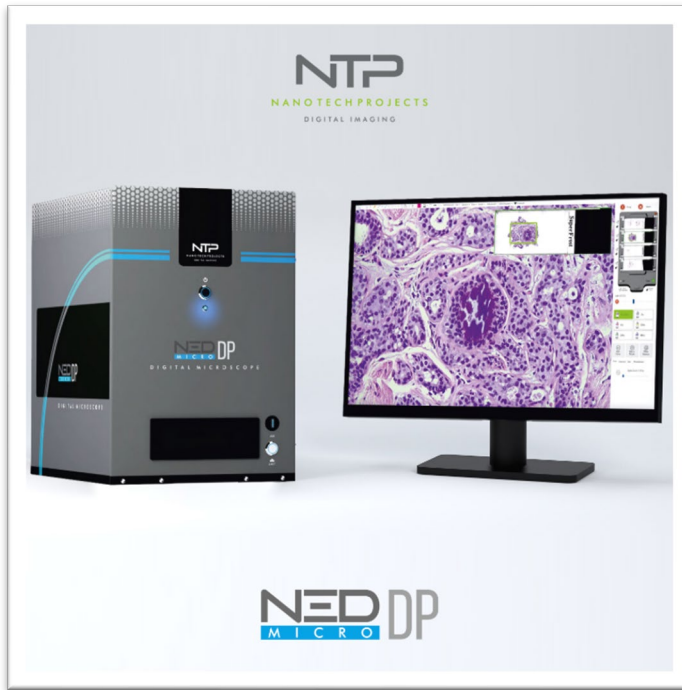
With **NED.Micro.DH** you can:

- perform manual leukocyte counting;
- use the WBC quick counting system;
- automate the WBC collection process;
- count normal and abnormal red blood cells, and platelets.

A set of *tools* will allow you to achieve all of this with great ease.

... and much more...

NED.Micro.DH will guide you in the exciting journey towards digital hematology.



NED PRODUCTS

Nano Eye Device



Digital Pathology



Digital Hematology



Virus Detector

...multiple products for multiple applications...

Visit www.ntpsrl.biz and you will find all the information you need.

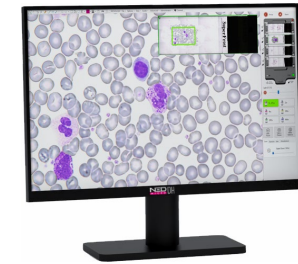
ACCESSORIES



External keypad
Up to 15 interactive buttons



Joystick
XYZ axes
6 buttons



Monitor FHD
(24"-32")
Dicom Ready

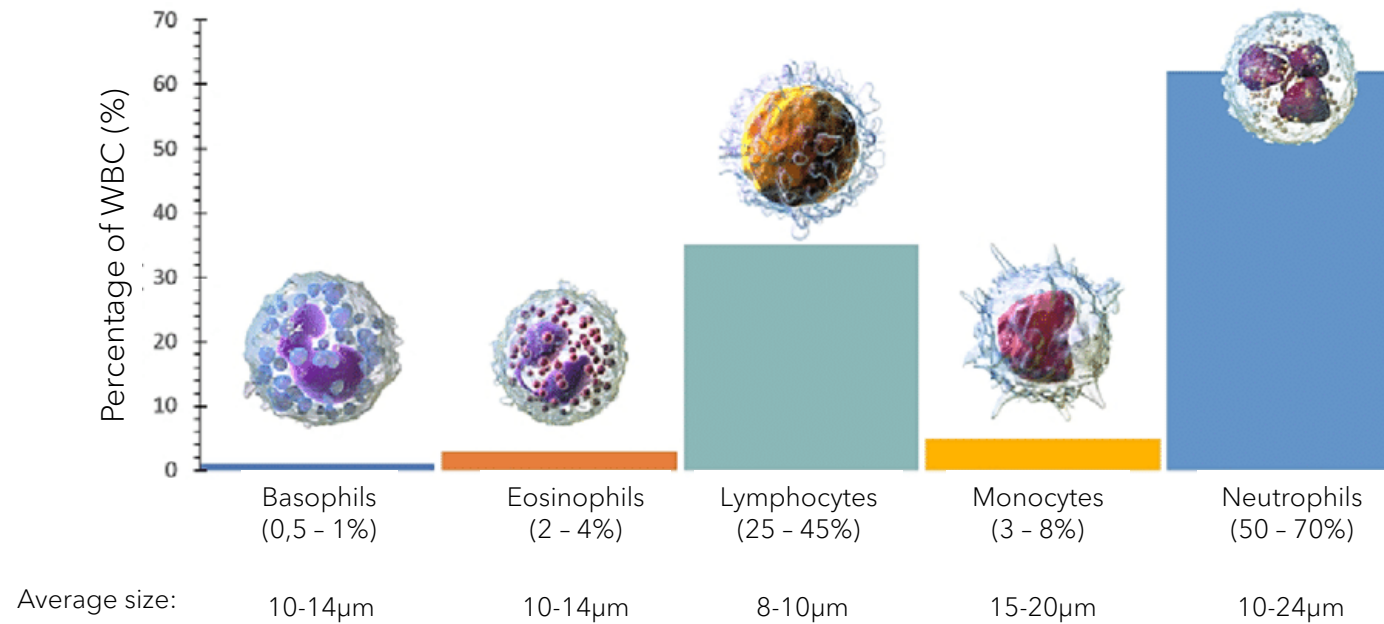
External keypad interfaces:



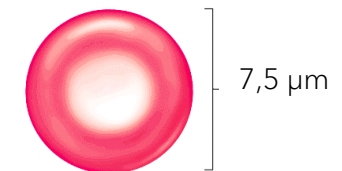
USEFUL INFORMATION

Average concentration of white blood cells in adults

Reference: <https://it.wikipedia.org/wiki/Leucocita>



Red Blood Cell
Size



Normally, the average number of red blood cells is 4,5 - 6 millions/mm³, and 4 - 5,5 millions/mm³ for men and women respectively.

ANNOTATIONS

ANNOTATIONS



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