

Software_Manual_WBC_Differential_Counter

User manual- New version of the program

After you start WBC_Counter_Windows_Name_Date.exe (medical2_6.exe) the program looks as shown on Figure 1 which is the Main menu. To start counting with the keyboard of the computer enter '1' and after that 'Enter'. It opens the screen shown on Figure 2 and Figure 2.1 where you have to enter the patient's name. When entering the name of the patient it should not contain spaces. Instead of space you should use this symbol „_“ underscore. After you enter the name and do not use spaces but use this symbol „_“ instead of space you press „Enter“ it opens Counting Table shown in Figure 3. The keyboard language must be set to English in order to work with the program.

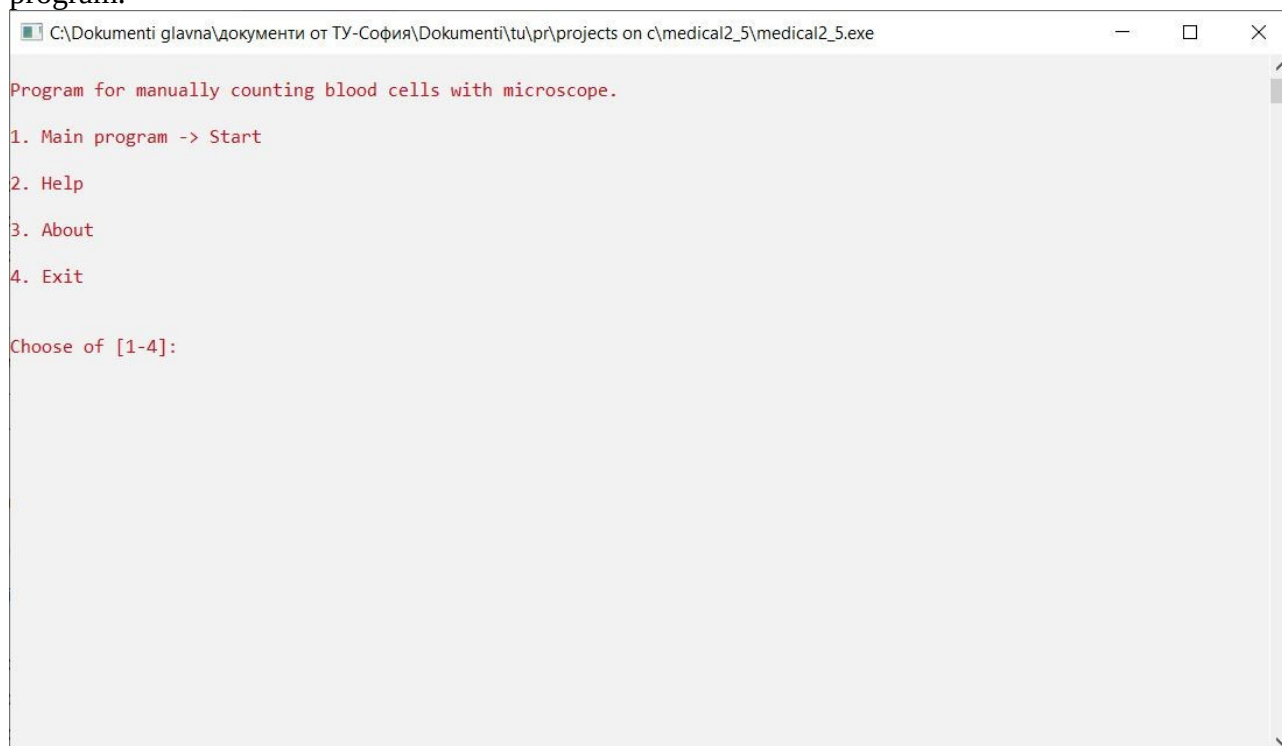


Figure 1. Main Menu.

After opening Counting Table you will be able to start counting. To count with column BASO. press button 'C', to count with column EOSIN. press button 'V', to count with column MYELO. press button 'B', to count with column JUVEN. press button 'N', to count with column STAB. press button 'M', to count with column SEG. press button '<', to count with column LYMPH. press button '>', to count with column MONO. press button '?'. During counting special functions are: press '0' to set counter to zero, press '7' to save the current result to a .txt file, press '9' to exit the program. Here are described the new functions:

- The last result is saved in FileBr.txt
- In file Last_results.txt are saved all current and old results and the latest results go at the bottom of the file. Important – You should be aware that, if the file size of Last_results.txt exceeds 500 000 bytes, the file Last_results.txt is deleted and the program starts from the begining of the file and all old results are deleted.
- In the files with the results FileBr.txt and Last_results.txt as well as on the screen of the program date and time are added.

If you want to access Help while in main menu press '2' and 'Enter'. If you want to access About while in main menu press '3' and 'Enter'. If you want to exit while in main menu press '4' and 'Enter'.

Other features include calculating percentage for every column, notification sound when reaching total count of 50 blood cells, notification sound and automatic save of the result when you reach

100 blood cells also the last result is saved in FileBr.txt history of results is saved in Last_results.txt (new functions). To add a new patient you have to close the program and start it again and then you will be able to enter the new name of the patient. Please note that the format of the date and time is as the format of the date and time in Bulgaria. If you have problems starting the program and it is blocked by Windows Defender you can allow it as shown in Figure 6.

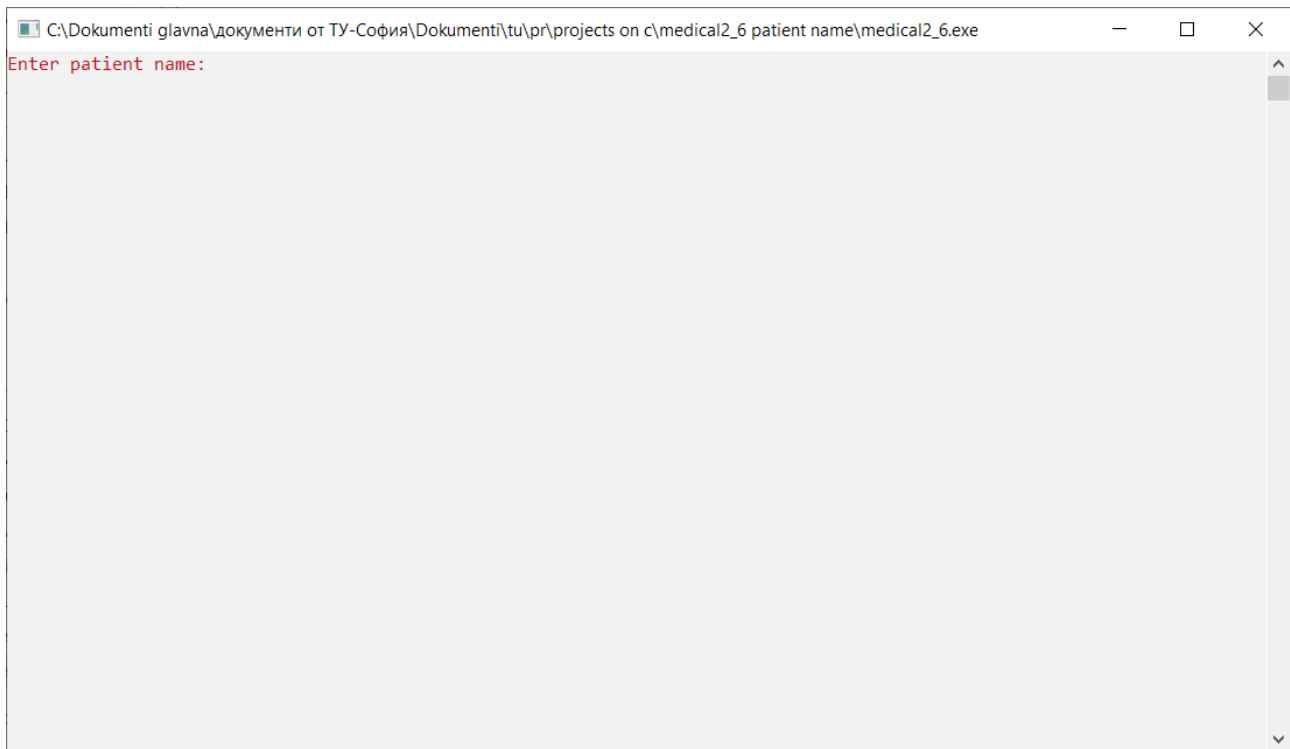


Figure 2. Enter the name of the patient.

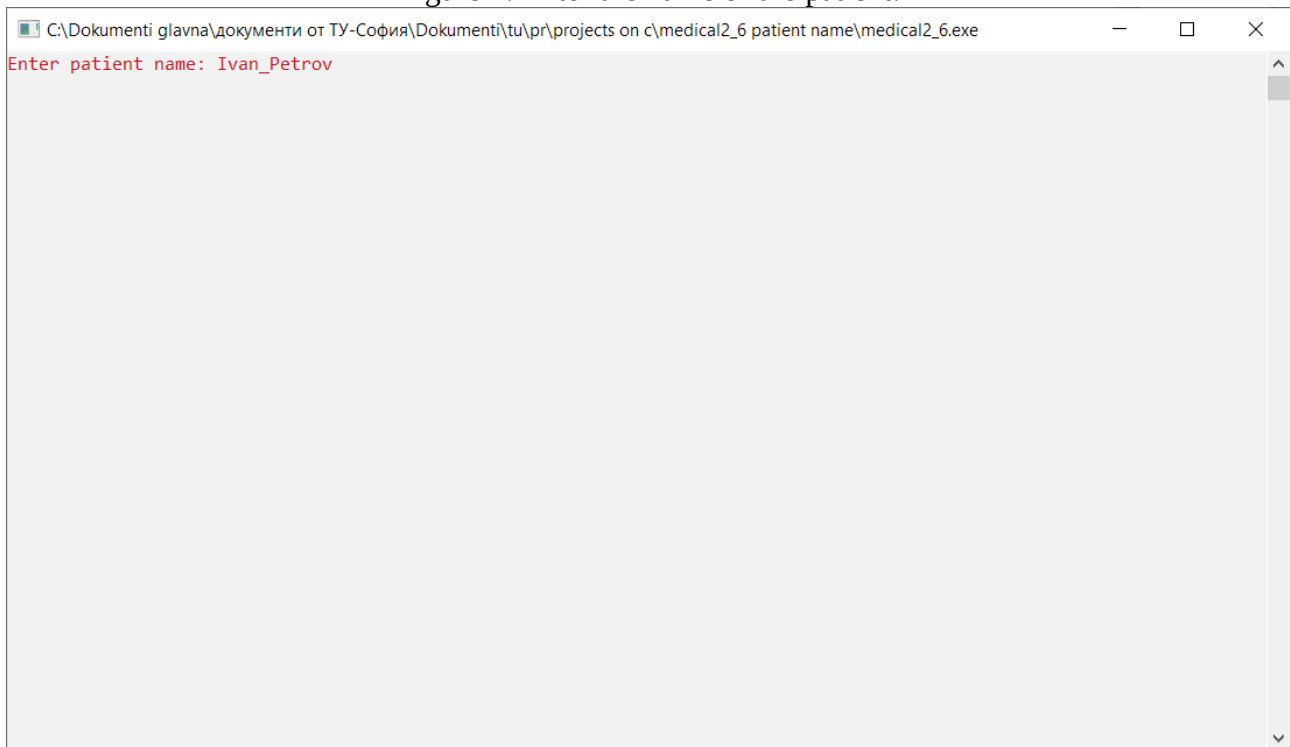


Figure 2.1. Example of entering the name of the patient.

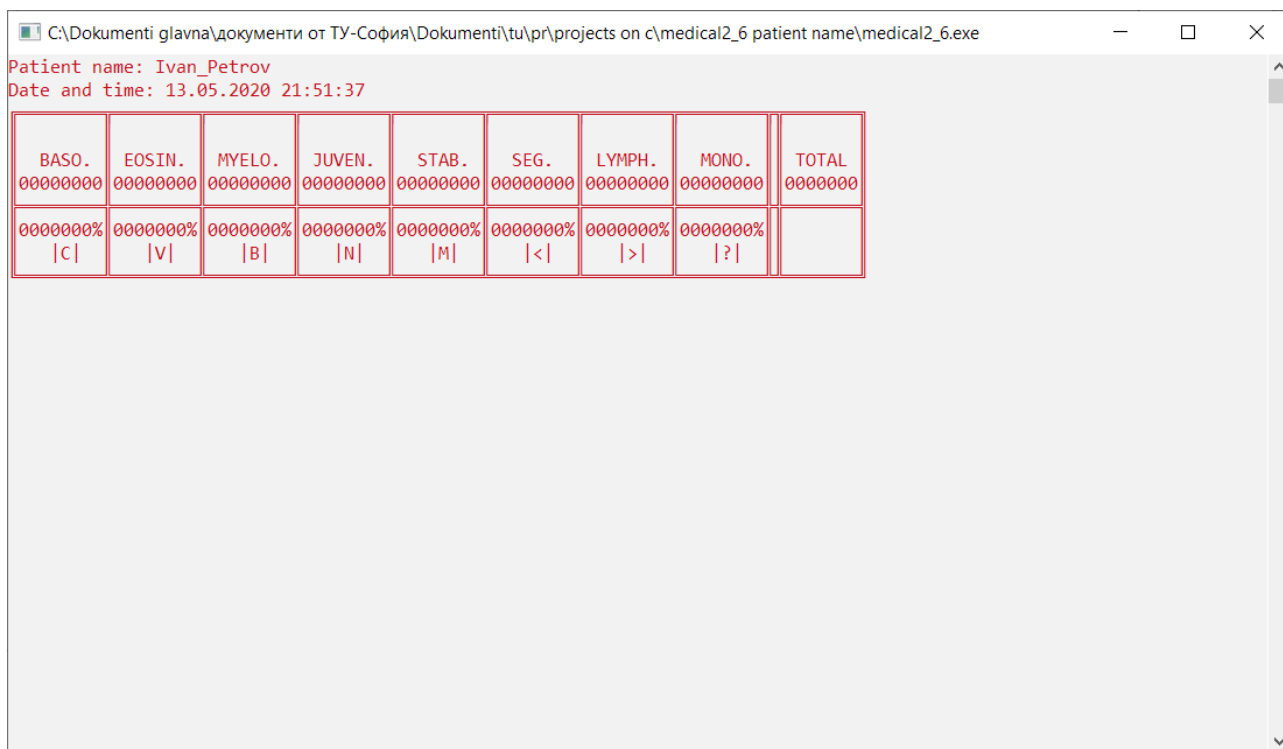


Figure 3. Counting Table.

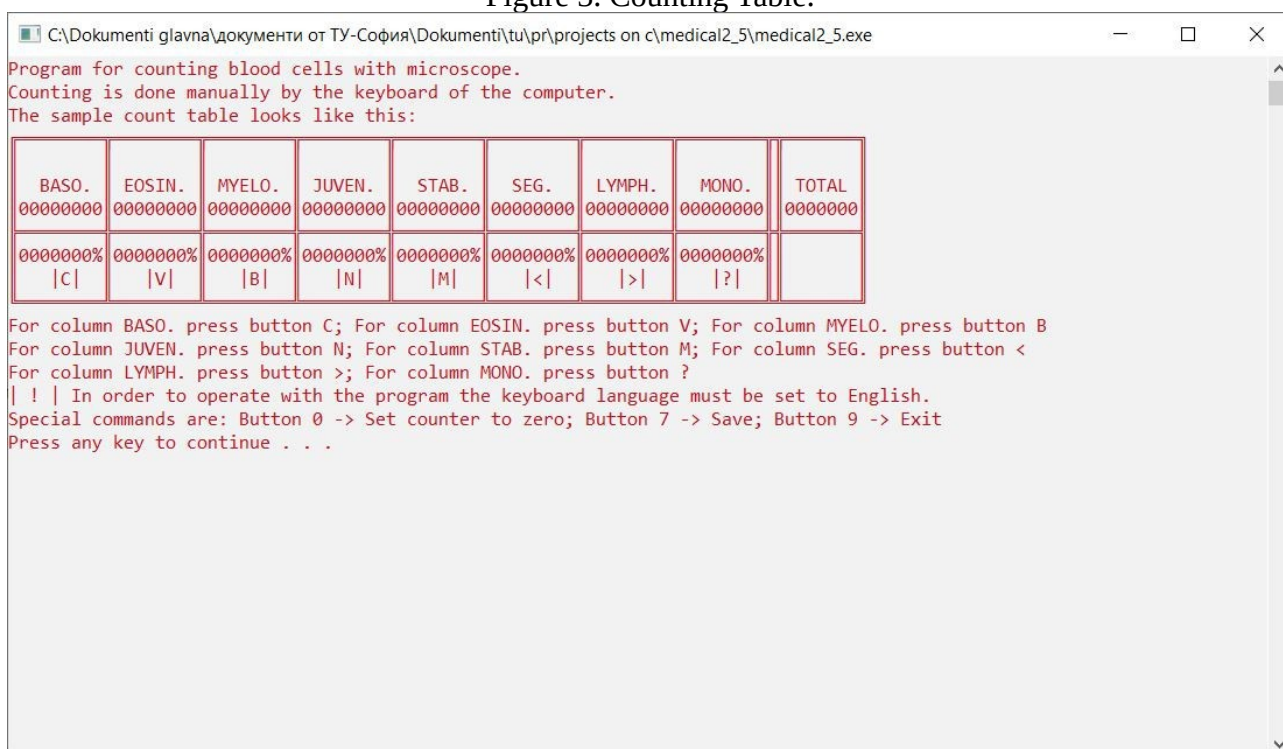


Figure 4. Help.

FileBr - Notepad

File Edit Format View Help

Patient name: Georgi Georgiev
Date and time: 13.05.2020 21:22:45

BASO.	EOSIN.	MYELO.	JUVEN.	STAB.	SEG.	LYMPH.	MONO.	TOTAL
00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000008
0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	
C	V	B	N	M	<	>	?	

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Figure 7. Example of the content of FileBr.txt.

Last_results - Notepad

File Edit Format View Help

Patient name: Ivan Petrov
Date and time: 13.05.2020 21:22:03

BASO.	EOSIN.	MYELO.	JUVEN.	STAB.	SEG.	LYMPH.	MONO.	TOTAL
00000001	00000017	00000009	00000017	00000020	00000004	00000001	00000035	0000104
0000000%	0000016%	0000008%	0000016%	0000019%	0000003%	0000000%	0000033%	
C	V	B	N	M	<	>	?	

Patient name: Georgi Georgiev
Date and time: 13.05.2020 21:22:45

BASO.	EOSIN.	MYELO.	JUVEN.	STAB.	SEG.	LYMPH.	MONO.	TOTAL
00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000001	00000008
0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	0000012%	
C	V	B	N	M	<	>	?	

Patient name: Ivan Petrov
Date and time: 13.05.2020 22:06:10

BASO.	EOSIN.	MYELO.	JUVEN.	STAB.	SEG.	LYMPH.	MONO.	TOTAL
00000001	00000004	00000005	00000006	00000003	00000002	00000000	00000000	00000021
0000004%	0000019%	0000023%	0000028%	0000014%	0000009%	0000000%	0000000%	
C	V	B	N	M	<	>	?	

Ln 1, Col 1 100% Windows (CRLF) UTF-8

Фигура 8. Example of the content of Last_results.txt.