

INSTALLATION AND USER GUIDE

MESIresults





MESResults

MESResults application is designed to be used with Automated ankle brachial pressure index measuring device (ABPI MD). Using USB cable, ABPI MD device can be connected to the computer. It enables possibility of printed or/and electronic handout. The application allows importing information such as name, address and logo of the institution which can be saved in MESResults and printed on every file leaving the health care facility.

This user guide will help you install the application and give you information about MESResults use.

You can download MESResults application from **www.mesimedical.com**.

This manual will guide you through the process of installing MESResults, and provide information on how to manually install MESResults on your computer.

For a successful installation you will need a **PC running the operating system Windows XP or greater**.

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1 Installation

Step 1

To start the installation you must first double click on the MESIresults installation file and follow the instructions in the ensuing steps.

Step 2

Select your language and then press the **OK** button. (Figure 1)

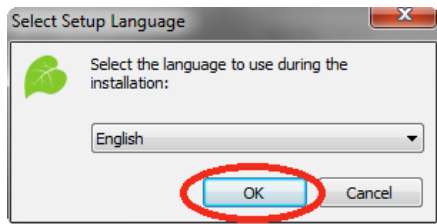


Figure 1: Language select

Step 3

Click the **Next** button to continue. (Figure 2)

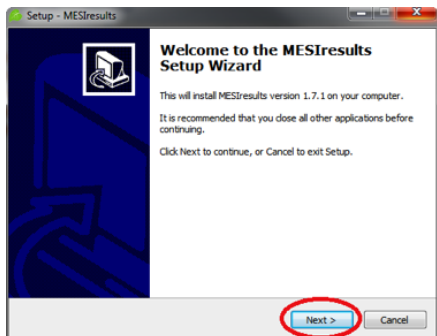


Figure 2: Welcome window

Step 4

In step 4 you can select the additional tasks that you would like Setup to perform while installing.

If you wish to create a desktop shortcut of MESIresults then check **Create a desktop icon**. If you don't want a desktop icon, uncheck it (Figure 3, by number 1) and continue the installation by clicking the **Next** button.

If you wish to delete all your previous application settings and begin with a completely new installation of MESIresults, check **Clear all previous application settings** (Figure 3, by number 2) and proceed by clicking the **Next** button.

You can select both options and continue.

If this is your first installation we recommend leaving it the way it is: uncheck and proceed by clicking the **Next** button.

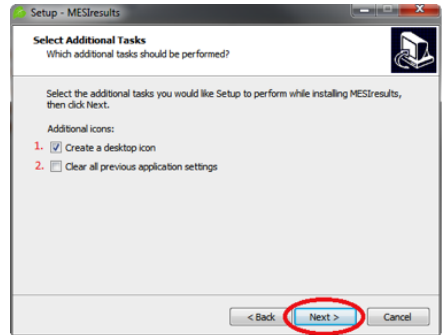


Figure 3: Additional task select

Step 5

Click on the **Install** button to continue. (Figure 4)

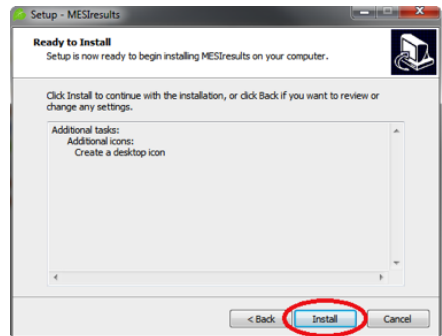


Figure 4: Ready to install window

Step 6

If you are using the Windows XP operating system, the Windows Security window will not appear.

Step 6 is only for users with **Windows 7** and **Windows Vista** operating system. If the Windows Security window appears in the process of the application installation (Figure 5) then click on **Install this driver software anyway**. This is needed for MESIresults to work correctly.

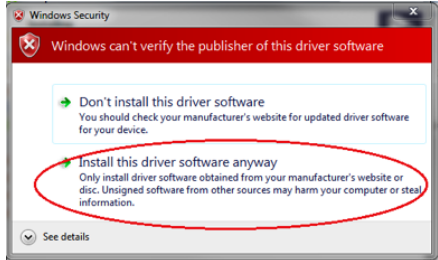


Figure 5: Windows security

Step 7

When the installation is completed, click the **Finish** button and the MESIresults application will open.

Now you have successfully installed the MESIresults application. If your PC computer is running the operating system Windows XP, then continue with the driver installation.

If the application doesn't work, delete it from your computer and install again. Be careful that you follow all the specified installation steps and install the drivers correctly.

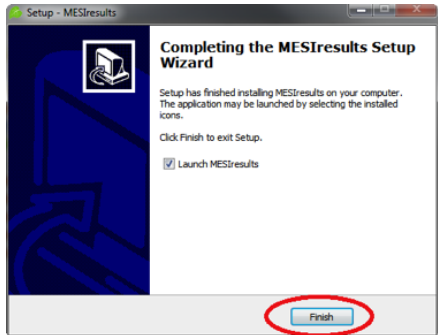


Figure 6: Finish window

Driver installation for Windows XP

If your PC is running the Windows XP operating system, you must follow the installation steps listed below to successfully install the drivers for the MESIresults application. In Windows Vista, Windows 7 or Windows 8 those steps are not necessary.

Before proceeding, please download drivers from our web site www.mesimedical.com. You will need drivers to finish installation.

Step 1

First, connect your ABPI MD device with a USB cable to your computer and turn on the device. After a few moments the **Found new hardware wizard** should appear.

Select the option **Select from a list or specific location (Advanced)** in *Figure 7* and then click **Next**.

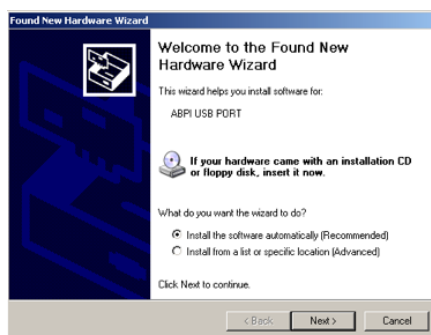


Figure 7: New hardware wizard window

Step 2

Select the option **Don't search. I will choose the driver to install** in *Figure 8* and click the **Next** button.

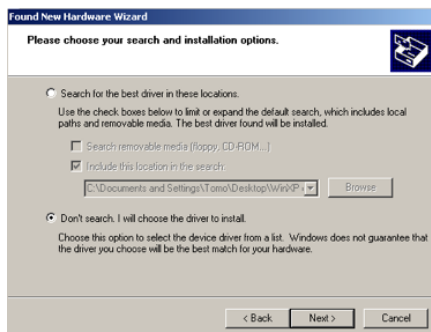


Figure 8: New hardware wizard - choice

Step 3

To select the driver, click on the option **Show compatible hardware** (Figure 9).

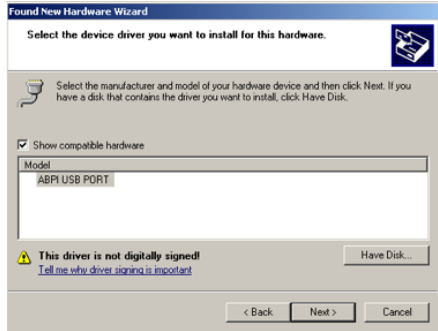


Figure 9: New hardware wizard - driver selection

The installation window will appear. Click the button **Browse**. (Figure 10)

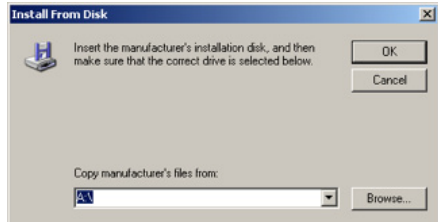


Figure 10: Installation from disk

Browse your computer for the folder 'WinXP driver' and file 'ABPIMD_XP.inf'. Select it and click on the button **Open**. (Figure 11)

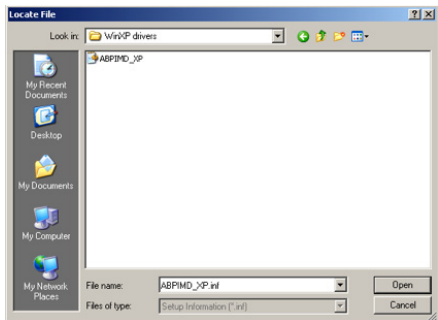


Figure 11: File location window

The installation window (Figure 12) will appear again. Click the **OK** button to continue.

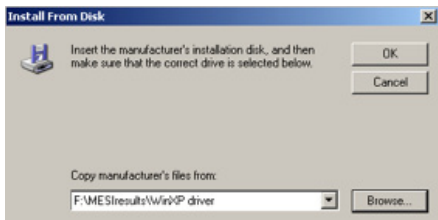


Figure 12: Installation from disk – driver location

Step 4

After you select the driver, the Hardware Update Wizard window will appear again. In the window Model (Figure 13) the **ABPI USB PORT** statement should appear, if not then repeat step 3. If the statement is shown then click the button **Next** to continue.

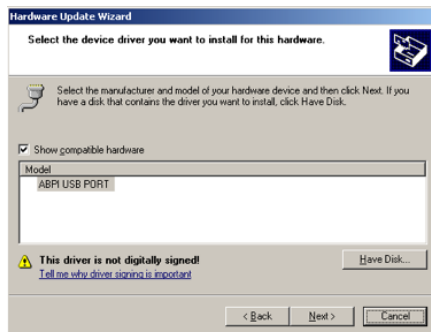


Figure 13: New hardware wizard - driver selection

Step 5

As the drivers are new, the window in Figure 14 may appear. We assure you that this driver is safe and will not harm your computer. To continue click on the button **Continue**.



Step 6

To complete the installation click on the button **Finish**.

Now you have successfully installed the drivers for XP. Thank you.



Figure 15: Hardware update wizard - finish

4 Instructions for use

This manual will help guide you through the process of using the application. MESIresults offers you a basic menu view where you can access four different tabs: Measure ABPI, History, Settings and About.

MESIresults application can be used in two different ways:

- ABPI MD device and computer are connected during the measurement. Process of the measurement is shown also on computer screen and the oscillation data is available.
- ABPI MD device is connected to the computer after the measurement is done. The measurements are synchronized between device and computer. The oscillation data is not available with synchronized measurements. In the History tab these measurements are marked with device icon.

On the bottom right you can see the status bar. The green circle indicates the connection status of the ABPI MD device with the computer. The serial number of the device is displayed on the bottom left side of the computer screen. If the device is not connected, the status circle is transparent and the device's serial number will not be displayed.



Figure 1: Basic view - Status connected

Connect the ABPI MD device to your computer by using the USB cable and then turn the device ON.

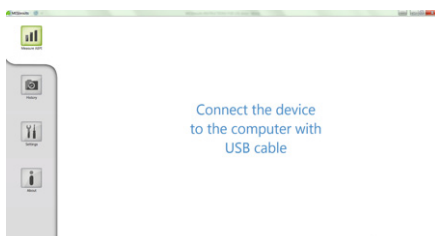


Figure 2: Basic view - Status disconnected

Before using the device, we recommend that the user set the institution's basic data and logo ("user details"), which will then be seen on the patient's handout. You can access the form in the Settings tab.

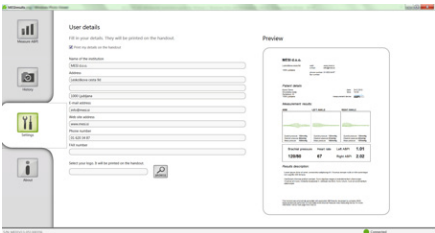


Figure 3: Settings tab: Set user details; print details for the handout

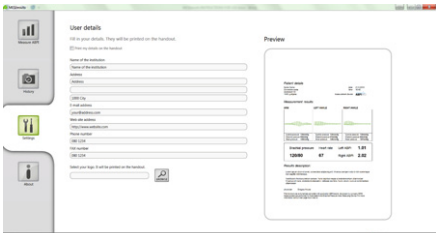


Figure 4: Settings tab: Set user details; without details on the handout

Measure ABPI tab

1.1

The Measure ABPI tab displays the measurement screen. Press the START button on the device to start measuring.



Figure 5: Start the measurement

During the measurement process the oscillation graphs are active. The graph observation can be displayed on the computer monitor or the device. After approximately 3 minutes the measurement is finished.

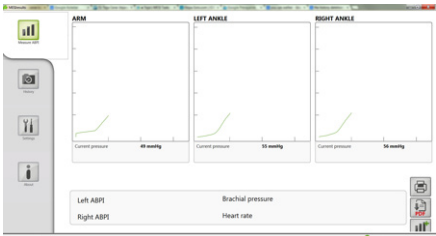


Figure 6: Active oscillation graphs

After the measurements are taken, the Calculation note appears. The device makes a beeping noise which indicates that the calculation of results is in progress. It should take roughly 30 seconds to see the results on the computer display.

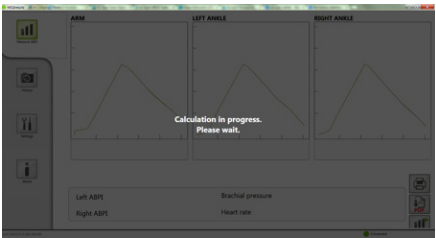


Figure 7: Calculation in progress

If an error message is displayed during the measurement, or if the measurement is interrupted, click anywhere to continue.

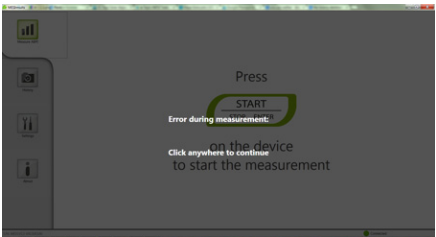


Figure 8: Errors

After the measurement is finished, the results are displayed on the computer screen. You can print or export the patient's results by the clicking print button or saving it as a PDF file. To view previous measurements click on the History tab.

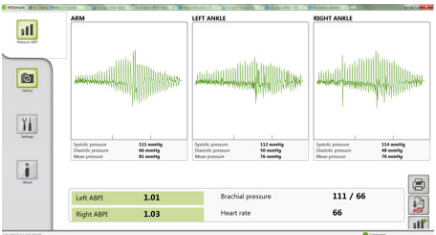


Figure 10: Results

By clicking the “Print” or “PDF file” button, the patient’s form opens. Here you can fill in the patient’s personal data, measurement description and see a preview of the printout. The patient data is automatically saved once the patient data is filled out. You can also browse saved data.

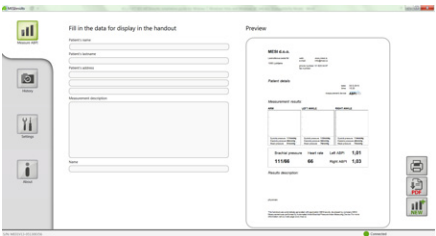


Figure 11: Patient's data form and handout preview

After filling out the handout you can either print it, save it as a PDF file, or measure a new patient by clicking the respective buttons on the bottom right of the screen.

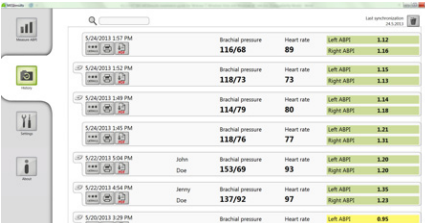
Another way to see the patient's results is by clicking on the History tab. The top result is the result of the last patient. The History tab provides you with a set of previous measurements, which are saved for subsequent printing.

The measurements displayed with the device icon on the left side of the result are measurements performed without a USB connection. These results do not contain the oscillation data, which is why graphs are not included in the handout. If the ABPI MD device is connected to the computer during the measurement process, the oscillation graphs can be seen by clicking the "Details" button, "Print" button, or they can be saved as a PDF file.

The Left and Right ABI results are also indicated by color codes.

Measurements containing the patient's name and surname can also be browsed by typing the patient's name or surname into the search field in the upper left part of the window.

History can be deleted by clicking the icon on the upper right side of the MESresults application. Information about the most recent synchronization can also be seen there.



Date	Time	Patient	Blood pressure	Heart rate	Left ABI	Right ABI
5/24/2013	1:57 PM	John Doe	116/68	89	3.12	3.16
5/24/2013	1:52 PM	John Doe	118/73	73	3.15	3.12
5/24/2013	1:48 PM	John Doe	114/79	80	3.14	3.18
5/24/2013	1:45 PM	John Doe	118/76	77	3.21	3.11
5/22/2013	5:04 PM	John Doe	153/69	93	3.28	3.26
5/22/2013	4:54 PM	John Doe	137/92	97	3.18	3.23
5/20/2013	3:28 PM	John Doe			3.05	

Figure 12: Previous measurements

Settings tab

The settings tab allows the user to set the institution's basic data and logo, which can then be seen on the patient's handout. If you want the data to be printed on the handout, be sure to check the check box for printing details on the handout (see Figure 3).

1.4 About tab

The **About** tab offers information about MESIresults, such as the software version and company information.



Figure 13: General information

1.5 Troubleshooting

Issue	Possible solution
Device does not connect to application.	Check if the drivers are installed and are working properly. Try reinstalling drivers or application.
Institution information is not printed on the handout.	Make sure that "Print my details on the handout" checkbox in Settings tab is checked. If that doesn't solve the problem, reinstall the application.
Application crashes during start-up.	Run application without device connected to the computer. If it works check drivers, otherwise reinstall application.

If you have any problems, please contact our help services at **+386 (0)1 620 34 87**.

