



Read this IFU carefully before use of the MD ANALYZER.



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Instructions, diagrams, descriptions or other information to assist service personnel are available on request from the manufacturer.

This manual includes the description of software USPIH ver.9 and higher for OS WINDOWS and OS ANDROID.

The definitions "USPIH ver. 9.7" or "USPIH 9.7x" which are used below, concern all the versions of software USPIH with index 9, starting from 9.0 and higher.

According MDCG 2023-4 Medical Device Software (MDSW)

8	Definition of hardware as				
Name of the Medical Dev	ice	ANESA (A	AMP, DAD-AN	II)	
Name of the Software		USPIH			
A. External hardware component providing input data to an MDSW app.		B. Hardware component incorporated within a smartphone or wearable connected to an MDSW app on a smartphone or wearable.			
Manufacturer of hardware component and MDSW app are the same entity.	Manufacturer of hardware component and MDSW app are different entities.	Manufacturer of hardware component incorporated within a wearable and MDSW app are the same entity. Manufacturer of wearable and MDSW app are different entities.			
C. The hardware or hardware component is placed on the market as an accessory to a MDSW. D. The hardware or hardware component is placed on the market as a medical device either: as part of a system according to article 22 MDR as a combination with another medical device according to article 2(1), as an integral part of a medical device					
E. The hardware or hardware component is an integral part of a general consumer product or wearable digital product and is not a medical device or an accessory to a medical device and has no intended medical purpose.					

IEC 62304:2006/AMD 1:2015 (IEC 62304:20015 ed.1.1) Medical device software -Software life cycle processes -Amendment 1 (next IEC 62304) Software USPIH class A.

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1. SOFTWARE USPIH 9.7X AND ANDROID FEATURES

Both types of software, USPIH 9.7x and ANDROID, do not contain the mathematical part of software USPIH. The main processing algorithm is hosted on a cloud server. Therefore, MD ANALYZERs with the software USPIH 9.7x and ANDROID work only via the Internet.

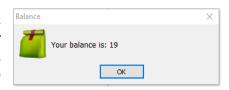
The user of software USPIH 9.7x and ANDROID should register an account on the cloud server. This account will be connected with the MD ANALYZER (the serial number of a specific device is registered for the user).

The routine workflow looks like this:

- ✓ A user/doctor installs software USPIH 9.7x or ANDROID and makes necessary settings (Chapters 4 for USPIH 9.7x, and Chapter 8 for ANDROID).
- ✓ When a patient comes for an examination, a doctor fills in his/her initial data: name, surname, gender, age, hight, and weight.
- ✓ The microprocessors are fixed on a patient's body, and the measurement is carried out (<u>Video</u> for USPIH 9.7x and Chapter 8 for ANDROID), considering the proper positioning of the patient (<u>Video</u>).
- ✓ The measurement results are sent to the cloud server for processing (<u>Chapter 5</u> for USPIH 9.7x, and <u>Chapter 8</u> for ANDROID). The calculation usually takes a couple of seconds and mainly depends on the user's Internet speed.
- ✓ The ready report with calculated parameters automatically returns to the user's computer. Thus, it is available for analysis/interpretation by a doctor, as well as for printing and saving on the computer immediately after testing (Chapter 6 and 8.4, 8.5 for ANDROID).

Important:

Considering that the measurements performed on the MD ANALYZER with USPIH 9.7x or ANDROID are sent to the cloud server for calculation, a processing fee is applied for each. In that regard, a user/doctor must keep a sufficient balance on the cloud server. To access the system, a user should make the prepayments to the supplier (distributor/manufacturer) in time to keep the balance positive.



The prepaid amount is credited to a user's registered account on the cloud server. The cost of processing each examination/test is debited automatically. The total balance is reduced according to the number of tests carried out. Each user can control the spending, the number of made tests, and the remaining tests using the software USPIH 9.7x or ANDROID options by clicking on the icon "check balance" (Chapter 4.3.1.8).

Each user is allowed to make the number of tests which has been prepaid. If the account balance is not sufficient, data processing becomes unavailable. The user shall replenish the balance via the distributor or the manufacturer.



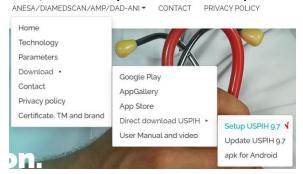
The authorised distributor in the country/region is responsible for managing the accounts of users from the territory using the Administrator software on the server. In the case of direct sales from the manufacturer, the managing of such users' accounts is made by the manufacturer.

2. SOFTWARE INSTALLATION/UPDATE. USPIH VER.9.7X

MD ANALYZER requires the installation of the latest version of its software. Before installing the software USPIH, please make sure that your computer has three available USB ports (or two USB ports and BLUETOOTH) and that you have the rights of "Administrator" in Windows OS (Windows 7 or higher).

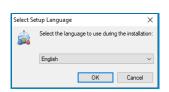
To install/update/set up the software for USPIH 9.7x, please follow the instructions below:

2.1 DON'T CONNECT THE DEVICE. Download a setup file for the MD ANALYZER to your computer using the WEB: https://kolibri.cloud/. Choose "Setup USPIH 9.7x" and the appropriate file will be downloaded to your computer. (in the example below, it is Setup USPIH 9.7x or Update USPIH 9.7x)



2.2 Run the downloaded file (in the example above, it is *setup_USPIH_9.7-CLOUDE.exe*) to install the software following the instructions below.

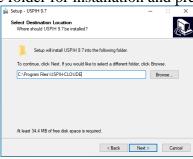
Select the language and click "OK":



In the appeared window, click "Next":

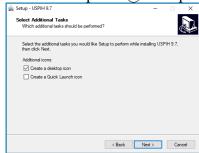


Select the folder for installation and press NEXT

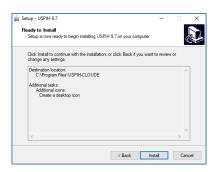


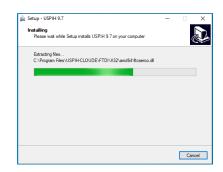
Press "Install"

Tick "Create a desctop icon@" and press NEXT

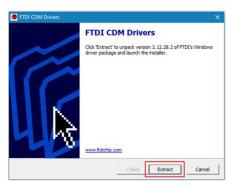


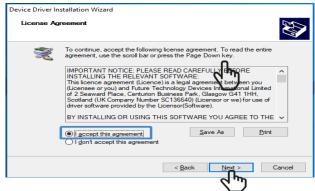
Wait while installation is completed

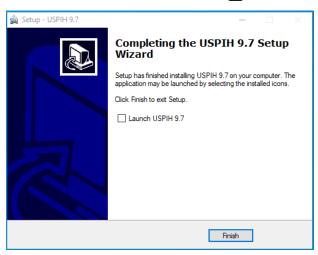


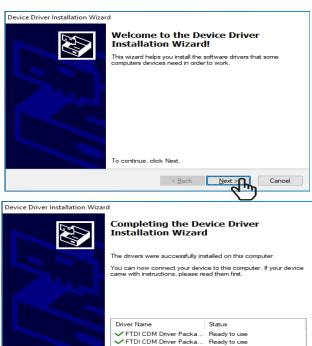


2.3. The installation of drivers will be start automatically immediately after the main software set up is completed. Please follow the instructions below.









Important Note:

If software USPIH is installed to your computer first time (o.i. before you have never worked with this device on this computer), do not tick "Launch USPIH 9.7x" (because the process of driver's installation is not completed yet). Press" Finish".

< Back Finish

Cancel

CONNECT THE DEVICE MD ANALYZER to your computer. The installation of drivers will be finalized.

Launch USPIH using the appropriate icon on your desktop.

2024-04-13

USPIH 9.7

3. START WORKING WITH USPIH VER.9.7X.CONNECTION OF THE DEVICE

CONNECTION OF THE DEVICE ANESA (AMP, DAD-ANI) TO A COMPUTER VIA BLUETOOTH BLE

Switch on the unit of MD ANALYZER (ANESA, AMP, DAD-ANI).

Run SOFTWARE USPIH 9.7x on your computer using the appropriate icon

Select the type of connection (Bluetooth/BLE or USB)

The login is the serial number of your device. It will be loaded and display automatically.

Enter the password.

Press "Enter"

After the authorization on the server, the software's main window will be displayed

The following error message can appear in case of

- no Internet connection or if the password is
- wrong password
- device MD ANALYZER is not registered in the cloud system

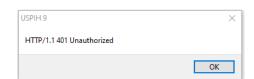
After pressing the "OK" button, the program will close the main window. We recommend to make an authorization again using the correct data.





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ANESA XXXX or BLE



4. SOFTWARE USPIH VERSION 9.7x INTERFACE



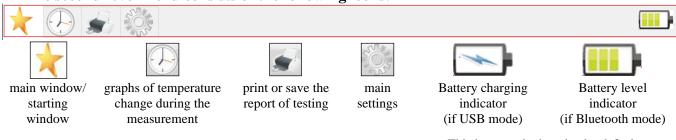
Description of the interface icons/options, used in the software USPIH ver. 9.7x:





At first time, USPIH 9.7x runs in English. To change the language, use an appropriate menu "Language" The interface is available on 20 languages: Ukrainian, Russian, English, Chinese, Spanish, Hungarian, Slovak, Greek, Slovenian, Italian, French, Turkish, Croatian, Polish, Bulgarian, Japanese, Czech, Serbian, German and Vietnamese.

4.2 The second-level menu consists of the following icons:



This icon can be inactive by default. To display it, please press CTRL+B



(4.2.1) **The main window** shows the content of the database "Patients". After clicking on any patient from the database, two submenus become available one by one: "Examinations" and "Initial data"

The part "Patients" has the following options:

Filter for searching the patients by a date of examination: it is possible to choose an exact date of examination or suspected period of time, when the examination might be done.

To activate filter, use an icon



To de-activate filter use an icon





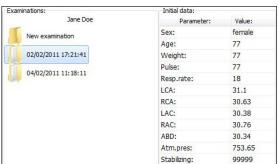
List of patients in the database (in groups and out of any group)

After clicking on the name of any patient, the part "Examinations" appears at right. It shows all existing surveys for a chosen patient in the database. Also, an icon "New examination" is available to start a new measurement for this person immediately.

After clicking on an examination, the part "Initial data" appears at right.

Initial data concerns the selected examination of the patient and contains initial information about this patient at the moment of testing: gender, age, HR, RR, temperature values in each point, air pressure and temperature stabilization data*





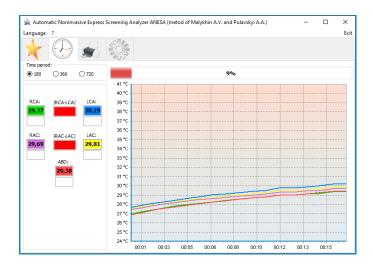
The options of this menu are described in details below, Chapter 4.3.1.



(4.2.2) **Graphs of temperature** change during the measurement. This menu is activated automatically when the measurement starts. It allows monitoring of temperature changes at each point in real-time. Detailed description of available options is in Chapter 4.3.2

st "99999" means the temperatures during measurement fully stabilized (100%).

[&]quot;00000" means the temperatures didn't stabilize during measurement.



(4.2.3) Print or save the report of testing

This menu is displayed automatically when the measurement is finished. All options available in this menu are described below in Chapter 4.3.3.

(4.2.4) Main settings

This menu allows entering information about your company which will be used for printing versions of surveys by default. This menu also allows fixing the Internet connection settings, doing factory reset and editing normal ranges used for the parameters in the report.

Detailed description of each option of this menu is available below, Chapter 4.3.4.



(4.2.5) **Battery status.** This icon appearance depends on the connection mode chosen by a user. The icon will show the battery's charge level if the device is connected via Bluetooth. If the device is connected via USB, the icon will show that the battery charging process is going. *This icon can be inactive by default. To display it, please press CTRL+B*

4.3 The third-level menu includes a number of the options available for each of the item from the second level (Chapter 4.2). They are described below.



(4.3.1.1) Used for searching patients or patients' groups in the database. It is necessary to enter the letters from a name or surname of the patient or a group name (minimum 3 letters) and the program will offer patients and groups containing entered combination of letters.



*











Reset search parameters

Groups of patients

Add a new patient

Edit data of a patient

n of Delete a patient from database (card)

t from Merge surveys of a patient

Delete an examination







Request for a report in SGS units



Request

for

balance

Changing a password of authentication



Indicators of connection mode:

connected via BLUETOOTH or USB

Working mode is highlighted

Synchronization of the database

(4.3.1.2) Reset search parameters – use this icon if you need to return to a full database after filtering the patients/groups for searching. After pressing on this icon, the complete list will be available again.



For the convenience of usage, the patients in database can be divided into groups. Use this icon to create a new group and edit or delete the existing one. The following window for editing will appear after pressing the icon >



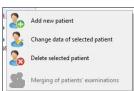






(4.3.1.4) Add/Edit/Delete a patient's card

Adding, editing and deleting of patient's cards can be done in two ways: using these icons in the main menu or in the context menu (right click by mouse on the selected patient). The same icons are used in both types of menu.



To **Add** a patient, press appropriate icon and fill in the required data



It is necessary to fill in the name and surname of a patient, choose the group (if necessary) and gender in the appropriate fields.

In case it is necessary to identify a patient additionally, tick the appropriate window and add identifying information (e.g. ID, passport, social number, etc.).

It is possible to select an existing group of patients from the drop-down list or create a new group (entering a new group name). If the name of group is new in the database (doesn't repeat any existing one), the group will be created automatically.

If the field "Group" remains blank, the patient's record/card will be placed in general list of the database (out of any group); such patients will be listed after all the groups.

For gender selection (male or female), click the appropriate button.

After confirmation of adding a new patient (button "Yes"), the patient's card will be displayed in appropriate group or in the general list.

To **Edit** the information about an existing patient, it is necessary to select a patient and press an appropriate icon in the main or context menu.





IMPORTANT! After changing the gender of a patient, all the surveys of this patient will be changed/recalculated automatically, according to the renewed information.

To **Delete a patient's card**/record from the database, it is necessary to select a patient's card from the list of patients and then click an appropriate icon in the main or context menu



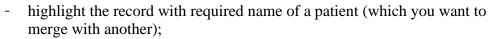
In case the password protection was set up, enter the valid password in the appeared window (the default password is "0000" (four zeros)).



(4.3.1.5) Merge surveys of a patient

Software allows merging the patient's examinations under the one name. It is useful in case the same patient was added to the database several times (with differences in the name or surname, e.g. John Doe, John D., J. Doe). So, his or her surveys can be merged under single name (in one card). This option is

available just for patients with the same gender. It can be done in the following way:



- hold down the button «Control» (Ctrl) on the keyboard and select another record (if the patient was saved several times, select a few records);
- click an appropriate icon in the main or context menu

- in the appeared window, select the preferred name of the patient. Click "Yes" to continue or "Cancel" to exit.

Finally, there will be one patient with several surveys in the database.



Attention! After merging the surveys, IT IS IMPOSSIBLE TO SEPARATE THEM BACK and restore their original form!



(4.3.1.6) **Deleting of patients' survey(s)** from the patient's card and database It can be done in the following way:

- Select an examination, which should be deleted and click this icon in the main menu or in the context menu (right click by mouse on the selected patient). The same icon is used in both types of menu.
- In case of password protection was set up, enter the valid password in the appeared window (the default password is "0000" (four zeros)).

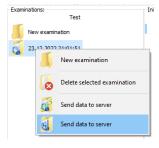




(4.3.1.7) Request for a report in SI or SGS units

Use these icons to choose the units which are preferable for the analysis and interpretation.

It is possible to make a choice of preferable in two ways: using these icons in the menu or in the context menu (right click by mouse on the selected examination). The same icons are used in both types of menu.



John Doe 12345

Choose the name for merging records

William Blacksmith 1234567890

Merging of patients' examination

Cancel



(4.3.1.8) Request for the balance

A user can request the state of balance on the cloud server at any time using this icon. It will help to avoid situations when the tests cannot be processed due to insufficient balance (Chapter 7).



(4.3.1.9) Change password of authentication

During the forst login to the system the password of authentication is set (Chapter 8). Use this icon if you need to change it. The system will ask you old password and then you can set the new one.



(4.3.1.10) Indicators of connection mode

Each of these two icons is highlighted depending on the mode of connection you use. If the device is connected via Bluetooth, then the first icon will be highlighted. The second icon will be highlighted when USB connection is used.

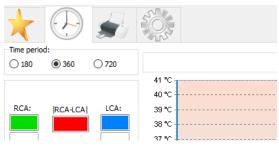




(4.3.1.11) Synchronization. If you have previously used software USPIH 9.7x on another computer, you can synchronize your new computer with the existing database on the cloud server. After installing software USPIH 9.7x on a new computer and the first authorization, use this icon for synchronization.

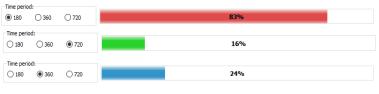
(4.3.2) Options in "Graphs of temperature"



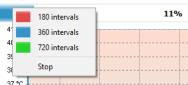


(4.3.2.1) **Time period.** A user can choose any of available time periods for testing. It can be changed even during the measurement. Progress bar

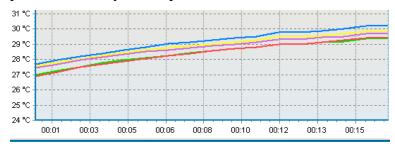
at right shows the process in color and in %. The color of progress bar changes according to the chosen period.



There is one more option, which allows changing time period: you can use context menu when clicking right mouse button on the coloured progress bar. Also, you can stop the measurement here, too. The following windows will appear.

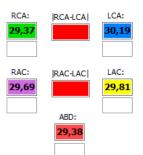


(4.3.2.2) **Temperature graphs.** It allows monitoring of temperature changes at each point on a body (where sensors were placed) in real-time. The colors of curves are the same as color of cables which are placed on a body of the patient. So, a doctor can re-fix those sensors, which loose contact with skin (if



temperatures drop down, even slightly, it means that sensor-to-body contact is poor or lost. Such a situation requires to replace the sensor and fix it properly again. Usually, it requires also the prolongation of the measurement. A user needs to choose longer period of time for measurement, see clause above (4.3.2.1).

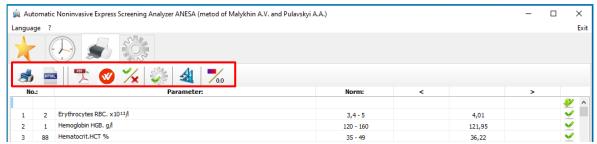
(4.3.2.3) **Temperature values.** It allows monitoring of temperature changes at each point on a body (where sensors were placed) in real-time using the real values measured. The values of temperature are displayed



in colour rectangle which repeat the color of cables placed on a body of the patient. Three additional rectangles (RCA-LCA, RAC-LAC and one below ABD) show the temperature stabilization process. They change their color from red via yellow to green, demonstrating how temperature is stabilized till the end of the measurement. It is required to choose a longer period of time if any of these three rectangles are yellow or red before the end of the measurement (see clause above (4.3.2.1). All of them must be green when the measurement is going to end.

(4.3.3) Options in "Print or save the report of testing"





This menu is opened automatically when the measurement is finished. The user can prepare the report with parameters and a conclusion for printing or saving using the available options.

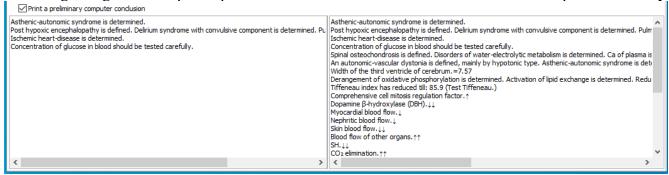
(4.3.3.1) Print-out the report with results

This icon is used to send the file for printing out. It is used after a doctor analyses the received information and makes a conclusion. It is prohibited to print out the report without consideration of the medical professional.

Printing out a preliminary computer conclusion:

In the bottom **right-side window**, an automatic conclusion is formed. It is compiled by the system based on the parameters calculated. But this conclusion can only be used as a prompt for the doctor, which needs to be considered and corrected appropriately by him.

Acceptable conclusions can be moved to the **left-side window** (drag-and-drop). Also, the doctor can type his findings, diagnoses and prescriptions here. The text from a left-side window will be printed-out only.

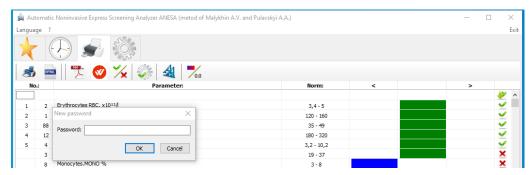


(4.3.3.2) Save the report in HTML format

This option is used to save a report in HTML format. By default, the file name will contain the patient's name, date and time of the test. A user can change it to any other according to the needs. If it is necessary to add a preliminary computer conclusion to the saving file, please follow the instructions for printing out above (Chapter 4.3.3.1)

(4.3.3.3) Save the report in PDF format (encrypted)

This option is used to save an encrypted report in PDF format. By default, the file name will contain the patient's name, date and time of the test. A user can change it to any other according to the needs. After pressing this icon, the system will ask you to set a password. So, the saved file will be protected from unauthorized reading. Only a person, who knows a password, can open and read it.



If it is necessary to add a preliminary computer conclusion to the saving file, please follow the instructions for printing out above (Chapter 4.3.3.1)



(4.3.3.4) AI system



When generating a report, you can use these buttons enabling or disabling the built-in system for monitoring the accuracy of calculated parameters (AI). Thus, when the system is enabled (blue colour icon), the report will include only the parameters with the maximum accuracy available for the algorithm. When red icon is active, the report will include all the parameters calculated without verification by AI algorithm.

(4.3.3.5) Manual inclusion/exclusion of parameters in the report



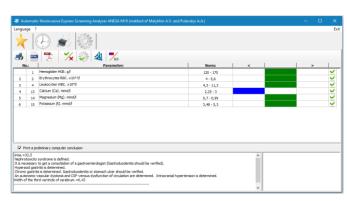
By default, all the parameters are marked with "v". If it is necessary to exclude any parameter(s) or group(s) of parameters from the printed version of the report, please use "x" for them (a click on the symbol "v" change it to "x" and vice versa.



(4.3.3.6) Selected parameters

If the list of selected parameters was formed in settings (Chapter 4.3.4.4), then it will be displayed by default after each measurement.

Use this icon to see the complete list of parameters instead of the selected one.

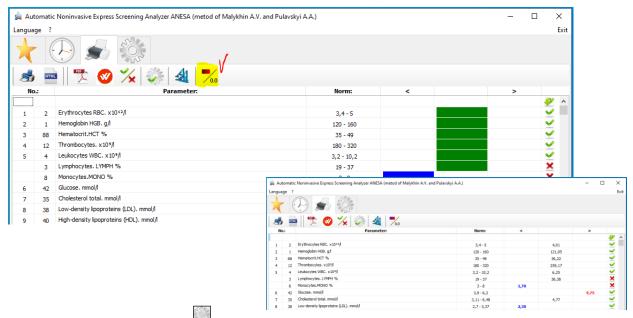


(4.3.3.7) Font

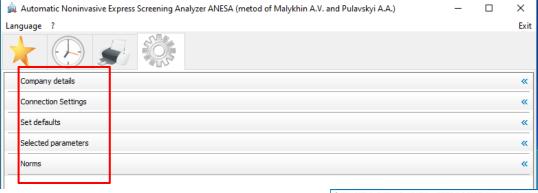
Use this icon to adjust fonts used in the printed/saved version of report. It is possible to set font and size of letters.

(4.3.3.8) Parameters in color or values

Use this icon to choose the content of printed/saved report. All the parameters in the report will be indicated in colour or in figures. Clicking on this icon changes this option from one to another and vice versa.



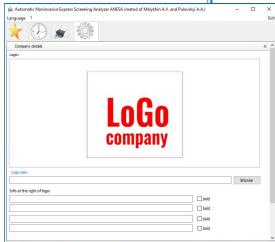
(4.3.4) Options in "Main Settings"



(4.3.4.1) Company details

This option allows adding a company name, it's address and contact information, as well as a company's logo. Four fields are intended for the details of the company. It is possible to make a bold text in any of the field (tick it).

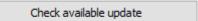
Company Logo can be uploaded too. The image must be in *.bmp format and its size cannot be smaller than 40x40 pixels (click "Browse" and select a picture)



(4.3.4.2) Connection settings

Use this menu if you need to manually adjust your Internet connection details (proxy, port, etc.).

To update the software, use the following icon



If update file is available, it will be downloaded and software USPIH will be closed automatically.

Open the folder your folder **Downloads** and find the file "update_USPIH_9.7x-CLOUDE.exe" there. Run it to update software USPIH following the instructions in Chapter 2 (the updating process is similar to the software installation).

Update your software USPIH regularly.

(4.3.4.3) Set defaults

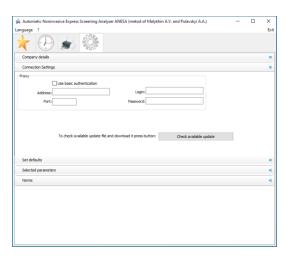
This option allows returning to the factory settings. It is necessary to use this option, if a user would like to cancel all changes made in the initial settings. Personal settings will not be restored after this operation.

(4.3.4.4) Selected parameters

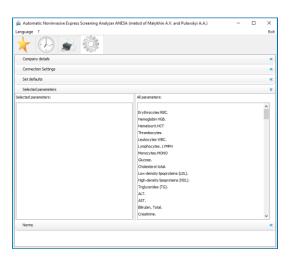
Sometimes, medical professionals prefer to use a shorter list of parameters for quick preview after measurement. So, it is possible to prepare such a list using this menu. There is a list of all parameters, divided by groups, in the right part of the window (All parameters). It is necessary to double click on the name of the parameter or the name of a group of parameters ('drag & drop' may be used, too). Highlighted parameter or group will appear in the left part of the window (Selected parameters). To clear the list of "Selected parameters" click the button "DELETE".

Further, after each measurement, selected parameters will be displayed at first.

To see all the parameters, follow the instructions above in Chapter 4.3.3.6







(4.3.4.5) Norms

This menu allows changing the normal ranges for each parameter (with regard to the gender and age) according to the commonly accepted ranges on the territory of use.

There are two systems of units in the software: SI and SGS.



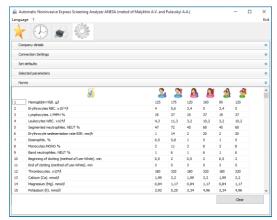


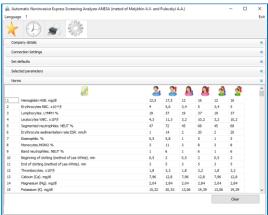
It is necessary to click on the icon SI or SGS (above the list of parameters) depending on which of them you are going to use (name of the icon is changed after clicking, from SI to SGS and versa).

Then the normal ranges can be changed for any parameter. Do not leave empty fields in norms.

Change normal ranges carefully considering a gender (male or female) and age (normal ranges for children are different).

To return to the factory settings, choose the system of units (SI or SGS) and click the button "Clear". Then do the same for another system of units.





5. DESCRIPTION OF THE MEASUREMENT PROCEDURE

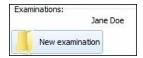


It is required to make an examination, in the supine position, when a patient is calm, had no physical activity during 5-10min, (See video).

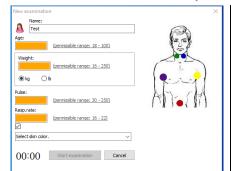
Any measuring procedure is started from adding a new patient (Chapter 4.3.1.4) or choosing the existing one from the database and creating the new examination according to the following path.

Create new examination

Select a patient from the list of database in the main window and click the icon "New Examination":



In the window that appears, enter the initial data of the patient (foe existing patient the number of fields will be less. It is not necessary to enter: his/her name, surname and gender. Other should be filled in):



Data	Units	Description	Valid range
Age	years	number of full years	18-100
Weight	kg or lb	weight of a patient in kg or lb	40-200 kg 88- 441 lb
Heart rate/Pulse	beats/mi n	number of heart beats /60 sec	30-250
Respiration rate	Insp/min	number of inspiration /60 sec We recommend setting a value between 16 and 22. For	5-50

	normal breathing, set the value to 18.	
Select skin colour	For Negroid race, select the "Dark Skin" menu. For all others, select the "Light Skin"	
	menu.	

A qualified medical professional determines a patient's heart rate manually, putting his/her fingers to the pulsation area. A patient should be calm; supine position is required. Measurement should be done carefully. In case of problems with definition of the heart rate (especially with 100 or more beats per minute), we recommend to use a heart rate monitor, e.g. KOLIBRI or similar.

Stopwatch, which may be helpful for measurement of heart rate, is located in the bottom left corner. Clicking on the stopwatch will start time count 00:00. Other clicks on the stopwatch will stop time count and reset it.

Five microprocessors (sensors) should be placed on the definite biologically active points (skin in the areas of sensors' placing should be cleaned and degreased previously using alcohol wipes; sensors must be disinfected with alcohol wipes, too) according to the following instructions

Carotid sensors

Blue - in the area of the carotid artery bifurcation (on the external and internal) on the **left** side, in the area of cricoid (LCA)

Green - in the area of the carotid artery bifurcation (on the external and internal) on the **right** side, in the area of cricoid (RCA)





The point of carotid bifurcation is to be found manually: the most intensive pulsation will be in the point of bifurcation. From the position of anatomy, approximately, the point of carotid bifurcation is located between sternocleidomastoid muscle and trachea (middle of distance), at the level of C3 and C4 cervical vertebrae, on the level of thyrohyoid membrane (approximate horizontal line), when both points are parallel to trachea (vertical line). In men, this line is often located on the level of Adam's apple. Women often have a crease on this level. Sensors should be fixed by plaster.

Axillary sensors (armpits)

Yellow - on the left armpit in axillary area (LAC)







Each of the axillary sensors should be placed in armpits, at the top of axillary crease (as the axillary artery passes in this area close to the skin) according to a colour identification. The sensors should be in a continuous contact with the skin during the process of measurement (if necessary, a sensor may be fixed by plaster).

Abdominal sensor

Red - in the abdominal area (umbilicus/navel) (ABD)



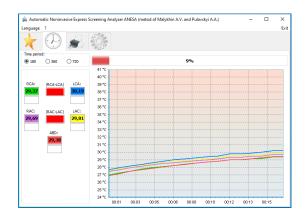






Abdominal temperature (umbilical) is measured in the area, where aorta, inferior vena cava and large lymph vessel are crossed. Pulsation is felt manually in the cross-point of vessels. Sensors should be fixed by plaster.

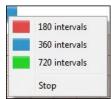
Process of measurement is run after pressing the button "Start measurement" in the software USPIH. Information processing takes 180-720 seconds, depending on a patient's state. After starting, a qualified medical professional follows up the process of measurement and controls if the process is going in a right way, using progress bar and temperature graphs (colour of each graph corresponds to colour microprocessors on a body):



The interval of measurement can be 180, 360 or 720 seconds (by default, it is 360 seconds). It can be



changed before and during an examination in the "Time period" menu

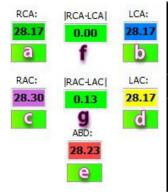


or in drop-down menu, which appears after right-click on the progress bar. The measurement can be stopped using this menu, too



ATTENTION! The accuracy of measured results by the MD ANALYZER depends on accurate process of temperature measurements. That's why, the software interface includes visual indicators, which help a qualified medical professional to determine the time of temperature stabilization and control the process of measurement!

The indicators are the following:



- ${\bf a}$ an indicator of temperature stabilization on the right side of carotid artery bifurcation
- \boldsymbol{b} an indicator of temperature stabilization on the left side of carotid artery bifurcation
- \boldsymbol{c} an indicator of temperature stabilization in the right armpit (in axillary area)
- **d** an indicator of temperature stabilization in the left armpit (in axillary area)
- **e** an indicator of temperature stabilization in the abdominal area (umbilicus)
- $\mathbf{f}-\text{indicator}$ of the temperature difference between left and right side of carotid artery bifurcation
- **g** indicator of the temperature difference in armpits

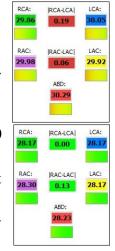
At the beginning of measurement all indicators are red. After 30 seconds, the software starts to analyse temperature stabilization.

The coloured rectangles, containing the values of temperature, have the same colour as the corresponding sensors. The colour of indicators a, b, c, d, e varies from **red** (the temperature is not stable) to **green** (stabilized temperature) during the process of stabilization. Each indicator shows the process of stabilization of an appropriate sensor.

Temperature is considered stable, if it doesn't change more than 0.15°C during 40 seconds.

Indicator **f** shows the temperature difference between bifurcation points of left and right carotid arteries; usually (for a healthy person) it should not exceed 0.5°C.

Indicator \mathbf{g} shows the temperature difference between left and right armpit (for healthy person), usually it should not exceed 0.5° C.





IMPORTANT! Indicators **f** and **g** are very important for a qualified medical professional during test. They are used as control instruments and give the information, if the test is going right and chosen time interval is enough for testing.

If the difference between armpit sensors does not exceed 0.5°C, as well as carotid sensors, and temperature of all sensors (including sensor of abdominal area!) stabilized, the indicators become green, otherwise – red.

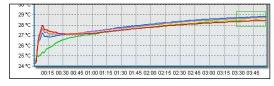


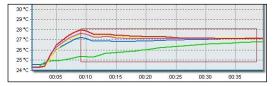
IMPORTANT! If the rectangles below temperature values are not green till the end of measurement, a qualified medical professional should change time interval to the larger one.

Colour "floating window" will appear over temperature graphs in 40 sec. after starting measurement. The window will have a red border, if stabilization of temperatures is not achieved. When temperature values stabilize, the "floating window" becomes green. This is another **important control issue during measurement**.

It is possible to zoom the graph by selecting the necessary area with a mouse.

To return the graph to its original position, please hold the left mouse button and drag it across the field chart from right to left

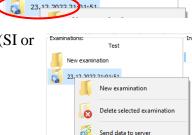




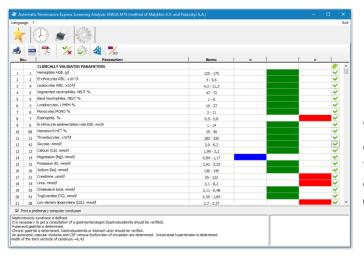
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When the measurement is completed, the appropriate record will appear in the patient's card in database.

Using the context menu (right click on the mouse), send the measured data to a server for processing, considering the units you need in the report (SI or SGS).



Send data to server



The window with "Results of measurements" opens automatically, when the report returns to the computer. To prepare the surveys for printing out or saving, please follow the instructions in Chapter 4.3.3.

Examinations:

New examination

6. EXAMPLE OF A SURVEY

Example of the report, which is generated after data processing

Weight: (kg): 77 Pulse: 77 Resp.rate: 18 Atm.pres: 734,9 154,47

Preliminary computer conclusion about diagnosis:

Cardio cerebral insufficiency is defined. Insufficient blood supply of brain (encephalopathy) is determined. Impaired coagulation should be verified. The blood coagulation must be under control.

Post hypoxic encephalopathy is defined. Delirium syndrome with convulsive component is determined. Pulmonary-cardiac insufficiency is determined.

Distinct reduction of leucocytes is determined. Leukocytes WBC.=3.57 < 4.63=Erythrocytes RBC. It is recommended to get the consultation

of hematologist, gastroenterologist.

It is recommended to get the consultation of hematologist, gastroenterologist, oncologist.

Concentration of glucose in blood should be tested carefully.

Spinal osteochondrosis is defined. Disorders of water-electrolytic metabolism is determined. Ca of plasma is changed (Ca of bone tissue). Hypertension of pulmonary circulation is defined.

Width of the third ventricle of cerebrum.=6.76

Width of the third ventricle of cerebrum.=6.76
Derangement of oxidative phosphorylation is determined. Activation of lipid exchange is determined. Reduction of amino acid synthesis is defined (tyrosine, glutamine). Impact of ethanols should be verified. Dopamine β-hydroxylase (DBH).=20.8
Tiffeneau index has reduced till: 83.6 (Test Tiffeneau.)
Comprehensive cell mitosis regulation factor.
Dopamine β-hydroxylase (DBH).↓↓
Myocardial blood flow.↓
Nephritic blood flow.↓
Skin blood flow.↓
Skin blood flow of other organs.↑↑

Basal pressure of Oddi's sphincter

(CO₂) in arterial blood.↑ (CO₂) venous blood.↑↑ Minute ventilation (VE)↑

Minute ventilation (VE)↑↑
Peak expiratory flow (PEF).↓
Test Tiffeneau.↓
Working rate of oxygen consumption.↑↑
Quantity of assimilated oxygen on 100 gr. of cerebral tissue.↓↓
Quantity of assimilated oxygen on 100 gr. of cerebral tissue.=1.80
Or consumption.(VO;)↓
Oxygen extraction index.↓↓
Low risk of atherosclerosis.
Low risk of atherosclerosis.
Average blood pressure (MAP). norm 60-100) =97.7
Thrombolysis in Myocardial Infarction (TIMI) Risk Index.↑

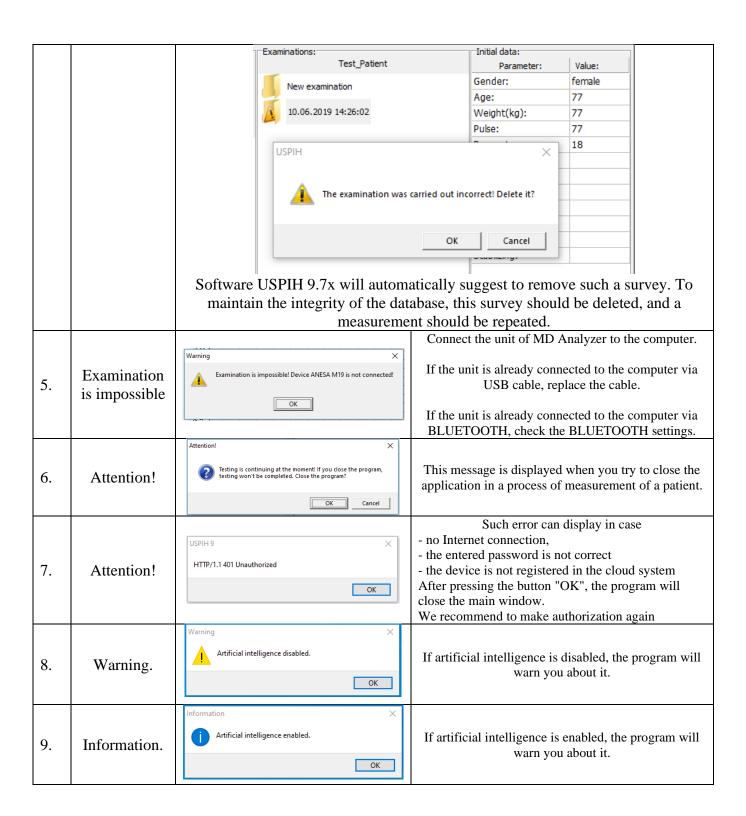
No	0.:	Parameter:	Norm:	<		>
1	2	Erythrocytes RBC. x1012/l	3,5 - 5			*
2	1	Hemoglobin HGB. g/l	110 - 150			*
3	88	Hematocrit.HCT %	40 - 50		*	
4	12	Thrombocytes. x109/l	100 - 300		*	
5	4	Leukocytes WBC. x109/l	4 - 10	*		
6	3	Lymphocytes. LYMPH %	17 - 40		*	
7	8	Monocytes.MONO %	3 - 8		*	
8	42	Glucose. mmol/l	3,9 - 6,2			*
9	35	Cholesterol total. mmol/l	2,8 - 5,17		*	
10	38	Low-density lipoproteins (LDL). mmol/l	2,07 - 3,62		*	
11	40	High-density lipoproteins (HDL). mmol/l	0,93 - 1,81		*	
12	41	Triglycerides (TG). mmol/l	0,55 - 1,71		*	
13	25	ALT. U/I	2 - 40		*	
14	24	AST. U/I	2 - 40		*	
15	27	Bilirubin, Total. µmol/l	1,7 - 17,1		*	
16	31	Creatinine. µmol/l	70 - 106	*		
17	34	Urea. mmol/l	3,2 - 7,1		*	

\checkmark						
No	0.:	Parameter:	Norm:	<		>
1	2	Erythrocytes RBC. x1012/l	3,5 - 5			5,10
2	1	Hemoglobin HGB. g/l	110 - 150			152,72
3	88	Hematocrit.HCT %	40 - 50		44,25	
4	12	Thrombocytes. x109/l	100 - 300		259,35	
5	4	Leukocytes WBC. x109/l	4 - 10	3,35		
6	3	Lymphocytes. LYMPH %	17 - 40		36,57	
7	8	Monocytes.MONO %	3 - 8		3,27	
8	42	Glucose. mmol/l	3,9 - 6,2			10,15
9	35	Cholesterol total. mmol/l	2,8 - 5,17		4,60	
10	38	Low-density lipoproteins (LDL). mmol/l	2,07 - 3,62		2,26	
11	40	High-density lipoproteins (HDL). mmol/l	0,93 - 1,81		1,67	
12	41	Triglycerides (TG). mmol/l	0,55 - 1,71		1,57	
13	25	ALT. U/I	2 - 40		7,57	
14	24	AST. U/I	2 - 40		7,85	
15	27	Bilirubin, Total. µmol/l	1,7 - 17,1		13,34	
16	31	Creatinine. µmol/l	70 - 106	60,33		
17	34	Urea. mmol/l	3,2 - 7,1		3,51	

Reminder: The results of a test can be presented in a graphic format and in values. Switching between these data visualization formats is carried out using the check-box.

7. TROUBLESHOOTING FOR USPIH 9.7X

No	Error/ problem	Indication and Reason(s)	Solution/advice		
		One or several sensors are damaged USPIH Cable with a microprocessor (s) is damaged or disconnected. The test could not be completed.	Replace the cable with a good one.		
1.	Measurement couldn't start or it is interrupted in a process	Sensors are not placed on a patient's body or placed incorrect USPIH Errorl Check the accuracy of microprocessors' placing and connection of cable with microprocessors! Continue testing? OK Cancel RCA: RCA-LCA LCA: 17,18 RC-LAC LAC: 17,28 RC-LAC LAC: 17,48 RC-LAC LAC: 17,48 RC-LAC LCA: LCA	Place the sensors in a way, as it is required by this Manual (Chapter 11) and then click "OK". The window may appear again, if the measured temperatures is below 24°C or above 41°C		
2.	Measurement is not started or it is interrupted in a process	If a sensor(s) or cable(s) for sensor are damaged (by any reasons), a user is warned in two ways: 2.1 error window Check out the blue cable! Continue diagnosis? Yes Cancel	Replace the cable with a good one.		
3.	Device MD ANALYZER isn't found	There is no connection between MD ANALYZER and PC	Depending on the mode of connection you use, 1) check USB cable or reconnect USB cable or replace it, if it is damaged; 2) check BLUETOOTH pairing, reconnect if necessary.		
	1 20 7720	Drivers for the device were installed incorrectly Check the drivers and reinsta (IFU Chapter 2)			
4.	A survey is unavailable	If a survey in the database is damaged or the measurement has been interrupted, such surveys will be marked with a special character and such surveys will be unavailable for opening. New examination 10.06.2019 14:26:02			



8. SOFTWARE USPIH FOR ANDROID (INSTALLATION, SETTINGS, WORK)

If MD ANALYZER is used together with a tablet PC based on OS ANDROID, then a specially designed software should be installed (the latest version of software).

To install such a software for ANESA, please follow the instructions below:

Download a setup file for the MD ANALYZER with Android

and run it.

The setup file is available on the official website https://kolibri.cloud/ (APK for ANDROID)

Switch on Bluetooth and Location on your Tablet with OS ANDROID. Download the APK and install it.

If Location is not enabled on your mobile device, the software will offer to enable it.

It is mandatory to switch on Location.

Run APK

Enter login and password. Press button "Yes".

The software will open the main window.



Create a patient card



Edit patient card



Delete patient's card



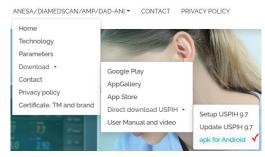
Show patient history.
Select by the date of examination

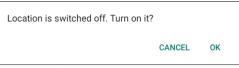


Refresh screen content

Press button "Settings menu":









Login (at least 6 characters): Enter login





Settings



Main menu (Return to main screen)



Searching



Medical device connection indicator via BLUETOOTH



Medical device connection indicator via USB

Select the type of BLUETOOTH connection (**Classic** or **BLE**) or USB.

To connect a medical device to a mobile gadget via USB, use an adapter USB-A to USB-C.



Note: Make sure your gadget supports OTG.

Select interface language.

Enter the company details.

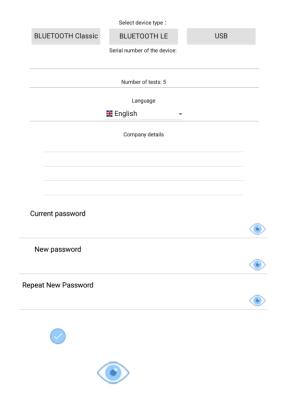
You can set your password to access test results in the cloud server.

The same menu is used for changing the passowrd.

Changes will take effect after clicking the "Accept" button

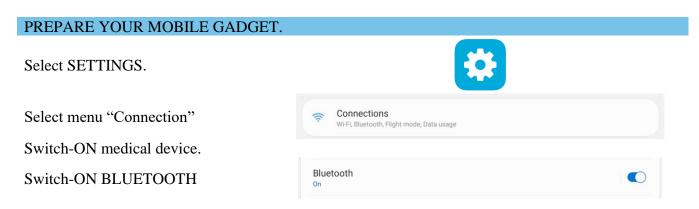
To view the entered data, use the appropriate icon

When all sensors are connected to the unit of MD ANALYZER and their operability is verified, then the **LED flashes white** on the side panel of the unit.



After connection of the unit of MD ANALYZER (with already connected sensors) to your Tablet PC **the LED rarely flashes blue** (the same LED on side panel of the unit).

8.1 CONNECTING A MEDICAL DEVICE OPERATING ON BLUETOOTH VERSION 4.2 OR BELOW.

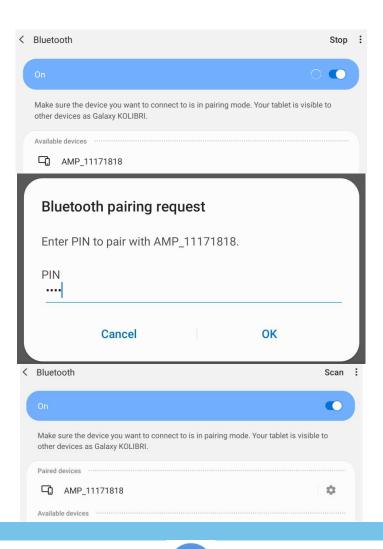


After the mobile gadget shows a list of devices visible for Bluetooth, select a medical device from the list. In the example, this is an AMP with serial number 11171818.

The mobile gadget will ask for permission to pair and ask for a password.

Enter password: 1234 and click OK.

The mobile gadget will notify you of a successful pairing if everything is done correctly.



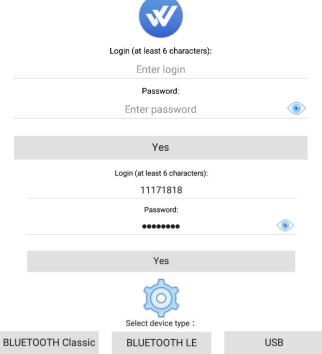
PREPARE SOFWARE.

Next step: run APK

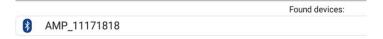
Enter login and password. Press button "Yes".

Select menu "Settings".

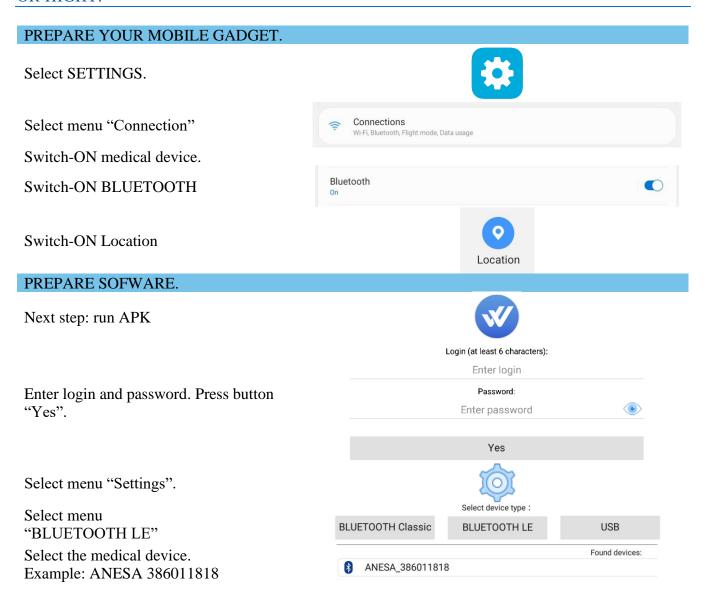
Select menu "BLUETOOTH Classic"



Select the medical device.



8.2 CONNECTING A MEDICAL DEVICE OPERATING ON BLUETOOTH VERSION 5.0 OR HIGHT.



8.3 PATIENT'S CARD CREATION

Press an icon

"Create a patient card"

Enter

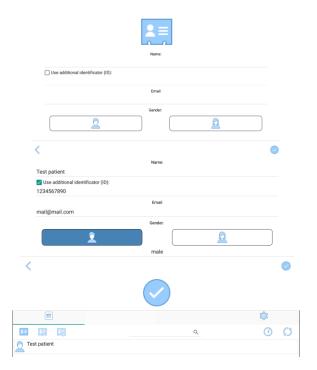
- 1. Patient name
- 2. ID
- 3. Email
- 4. Choose gender

Press the button "Accept"



A patient card will be created if you press the "accept" button.

The patient record has been created.



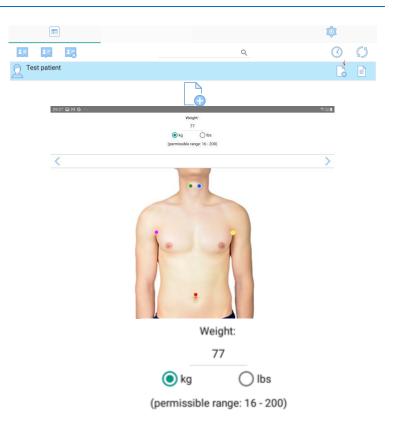
8.4 PATIENT TESTING

Select the patient

Press button "Create test card"

Enter weight

Select kg or lbs. Press button "Next"

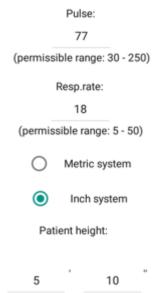


Enter heart rate (pulse)
Press button "Next"

Enter respiratory rate Press button "Next"

Select "Metric system" or "Inch system" (for height))

Enter height
Press button "Next"



After that, correctly place five microprocessors (sensors) on the patient's body. DESCRIPTION OF MEASURING PROCEDURE of the tutorial video on YouTube.

The proper sensors' placement is shown schematically in the software interface.

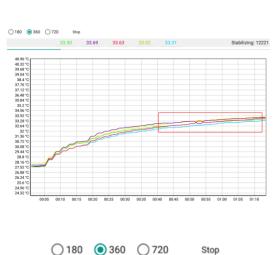


Select system of units Press button "Next"

The process of temperature measurement will be displayed in graphs in real time.

Color of curves corresponds with the color of cables with sensors placed on a patient's body.

A user can choose the period of time necessary for measurement. It can be changed during the measurement or even stopped before ending.



SGS

SI

If one of the sensors loses contact with the skin during the measurement, then the appropriate graph starts to decline. This is a useful element of control during the measurement, which allows timely correction of the fixation of sensors (left screen shot below).

If the temperature values at five points have stabilized, a green rectangle will appear on the graph, and the stabilization parameter will be equal 99999. The measurement can be completed. (right screen shot below)

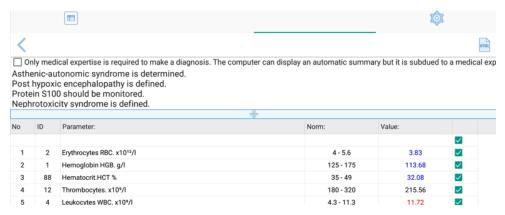


When the measurement is finished, the software will automatically offer to send the results of measurement to the cloud server for mathematical processing. When it is completed, the results will be returned in the form of a report

Send data to server? (LCA: 35.04, RCA: 35.10, LAC: 35.12, RAC: 35.05, ABD: 35.35, Atm.pres: 718.2)

to your tablet PC. Usually, it takes a couple of seconds to send the results of measurement and receive the report.

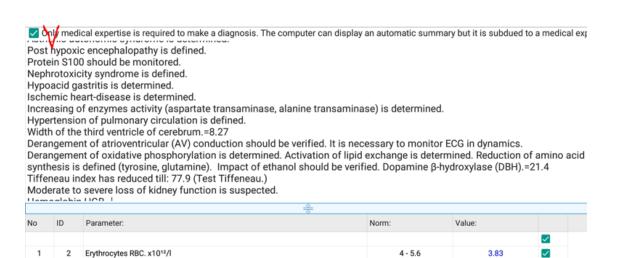
Press "OK" and receive results. The results will be represented as follows:



Use the split icon to view the automatic summary generated by the software.



Use the checkbox to print the automatic summary generated by the software.



You can remove some parameters from printed version of the report by deleticng the tick in the corresponding raw.

Hemoglobin HGB. q/l



113.68

125 - 175

Use this icon to generate a report in HTML format

The software will prompt you to download the report in HTML format.

The file name will contain the patient's name, date and time of the test.

OS ANDROID will offer several applications for opening and displaying the report with results

Note: We recommend CHROME, BRAVE or VIVALDI browsers.

Select any one you have and open the report.



Downloads/ANESA_HTML/Test patient 12_25_22 9_36_54 AM.html

ОК



The report will starts from a preliminary machine conslusion about health state of tested person. It is only a promt for a doctor, which needs to be consiredred and corrected accordingly.

Test results will be displayed in coloured bars:

blue - value below normal | **green** - value is normal | **red** - the value is above the norm.

Only medical expertise is required to make a diagnosis. The computer can display an automatic summary but it is subdued to a medical expertise.

Asthenic-autonomic syndrome is determined.

Post hypoxic encephalopathy is defined.

Protein \$100 should be monitored.

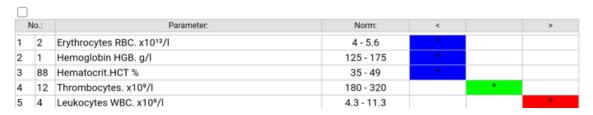
Nephrotoxicity syndrome is defined.

Hypoacid gastritis is determined.

Ischemic heart-disease is determined.

To display parameters in values (instead of color bars), use the checkbox in right up corner of the table (tick it)

The following parameters were simultaneously captured to issue the above preliminary report.



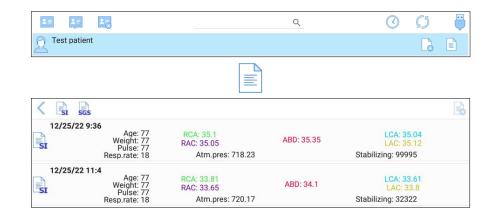
\checkmark						
No.:		Parameter:	Norm:	<		>
1	2	Erythrocytes RBC. x1012/I	4 - 5.6	3.83		
2	1	Hemoglobin HGB. g/l	125 - 175	113.68		
3	88	Hematocrit.HCT %	35 - 49	32.08		
4	12	Thrombocytes. x109/I	180 - 320		215.56	
5	4	Leukocytes WBC. x109/I	4.3 - 11.3			11.72
6	3	Lymphocytes. LYMPH %	19 - 37		25.18	
7	8	Monocytes.MONO %	3 - 11		6.52	

8.5 VIEW TEST RESULTS

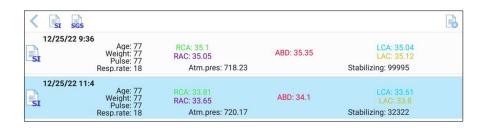
Select the patient.

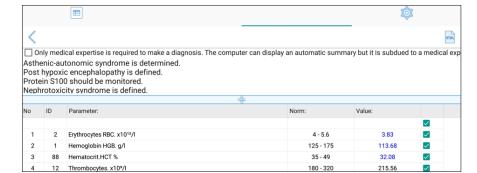
Press button "View results"

Select a test.



Double-click to test.





The software will show the test results.

8.6 DELETE TEST RESULTS

Select the patient.

Press button "View results"

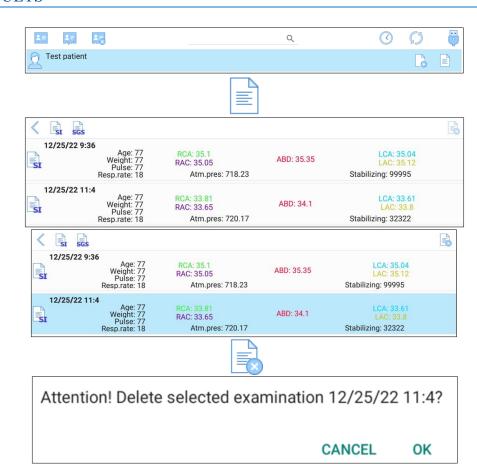
Select test.

Double-click to test.

Press button "Delete test"

The program will warn about deleting the test.

Press button "OK".



The test has been deleted.



8.7 USING THE CALENDAR TO FIND TEST RESULTS

Press button "Main menu" (Return to main screen)

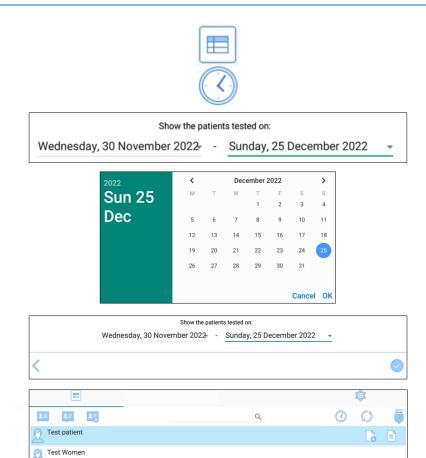
Press the button "Calendar."

Select 'Start date" and "Finish date."

Use the calendar.

Press the "Accept" button.

The program will show all the tests for the period you have chosen.

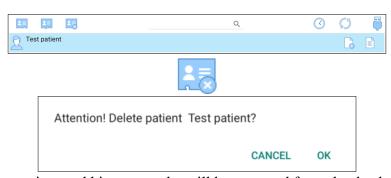


8.8 DELETE A PATIENT'S CARD

Select the patient.

Press button: "Delete a patient".

The program will warn about deleting the selected patient. Note: All tests of the deleted patient will also be deleted too. Press "OK"



The patient and his test results will be removed from the database

8.9 EDIT A PATIENT'S CARD

<u>*</u> 0 0 **♣** ₩ Q Select the patient. Test patient Press button: "Edit patient card". Test patient Use additional identificator (ID): 1234567890 Edit the patient Email chart. mail@mail.com Press the button "Accept"

8.10 TROUBLESHOOTING FOR USPIH ANDROID

No	Error/problem	Indication and Reason(s)	Solution/advice
1.	Test error Measurement is not started or it is interrupted in a process	Examination is impossible! Device ANESA is not connected! OK Reasons: The device is not connected to the Tablet PC	Connect the MD to the Tablet. Adjust settings in the menu
2.	Error!	Error! (Error resolving Address amp.mdevice.eu: No address associated with hostname (7)) OK	The error occurs when the mobile gadget is not connected to the Internet or there is no access to the cloud server. Connect your mobile gadget to the Internet.
3.	Connection error	Error! (Socket Error # 104 Connection reset by peer.) Reasons: 3.1 There is No Internet connection 3.2 Cloud server is not working	2.1 Check your Internet connection 2.2 If Internet connection is OK, contact your service provider and inform about the problem

3	Temperature alert During the measurement, the window for temperature monitoring changes its colour to red and flashes	Reasons: 3.1 Sensor(s) lost the contact with skin of a patient 3.2 Sensor(s)/cable(s) lost connection with the unit (see Error 5 below).	Note: such alert signals that the measured temperature is below +24C or above +41C 3.1 Fix the sensor(s) on a patient's body properly according to the requirements in Chapter 11. 3.2 Check the connection of cables with the unit. (see also Error 5 below)
4	Balance alert	Attention!! Number of tests: 2 OK Reasons: If the user's balance is close to zero, the software displays this alert	Contact your service provider to replenish your balance.

9. MANUFACTURER AND THE AUTHORIZED SERVICE CENTRES



Manufacturer: SC KOLIBRI LLC

Kinnyi provulok 8a, Kharkiv, 61001. Ukraine.

Tel.: +380-973779787

email: bioluch@gmail.com URL: https://kolibri.cloud



Authorized representative in European Union: ONKOCET Ltd.

4 Kutuzovova str., 90201 Pezinok, Slovakia, Tel.: +421

(2) 44 64 09 77

email: onkocet@onkocet.eu URL: www.onkocet.eu

All valid permissions and certificates are placed on the manufacturer's homepage www.anesa.biz https://kolibri.cloud/

10. COMPLIANCE WITH GDPR

Considering that on the 25th of May 2018, the EU regulation on protection of personal data entered into force, namely **REGULATION** (EU) 2016/679 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) - hereinafter GDPR Regulation, we, as the manufacturer of the medical equipment for screening diagnostics (ANALYZATOR) recommend our customers to take appropriate measures for the protection of sensitive information on the health state of their patients.

For our side, we declare that no information and data is transmitted from the device to third parties, as well as to us, as the manufacturer. We do not receive, store or use the information about your patients. The database is kept locally on your computer and it is your responsibility to keep it safe. Being an authorized user of the device (a holder of the software protection key), only you are able to share the information from the database of the device directly to appointed addressee. We have implemented several protective measures, which will be helpful for you in that regards, they are the following:

- √ Access to the database and encryption/decryption of data is carried out with a password. The software and the database don't run without the password, so only the authorized user, who keeps the password to the corresponding DB has an access to the records in the database.
- √ Access to the database is protected with a password (hidden) additionally and is possible only via the software USPIH.

We ensure, that the volume of information about a person, which is added to the database of the software is adequate, relevant and limited to what is necessary for the purposes of diagnostics and the collected data will not be further processed in a manner which is incompatible with those purposes (complies with Article 5 of the Regulation (EU) 216/679).

We strongly advise against sending the results of testing by email to avoid any information leak or unauthorized access to the sensitive data of your patients. As you have an ability to print out the results, so you can give the survey with results of testing to your patients in a paper form, after signing the informational consent.

We recommend to get a **signed consent** form for processing and storage of personal data of a patient, including the data concerning his/her health, from each of your patient **BEFORE testing** on the device.

A sample of the informed consent is below. It was also included in the survey/report form and is usually printed at the beginning of the document, before the results.

INFORMED CONSENT (GDPR): I have been briefed on my rights and Privacy Policy based on the REGULATION (EU) 2016/679 (GDPR) regarding the processing, storing and free movements of my personal data, which are used by the medical device and software USPIH for the purposes of a noninvasive screening test.

I am aware of and agree with the condition that the data containing in the database of the software USPIH will not be disclosed and/or forwarded to unauthorized third parties except the following:

- a) to a personal data processor (a medical professional, who is responsible for carrying out an examination and interpret the results on site):
- b) to the respective/authorised staff of the manufacturer, whose duties includes the elimination of bugs in the software, software update or other assistance related to the software on the request of the personal data processor;
- c) to governments, control agencies, regulatory authorities and others as permitted or required by law.

I am aware of an ability to withdraw my consent at any time submitting a written statement in the place, where the service was provided. Thereof, I realize that my personal data will be deleted irrevocably and without a possibility of further applying, referring and analysing of such data.

Signature of	of a	patient	

11.DECOMMISSIONING AND DISPOSAL OF SOFTWARE

To uninstall the software, use the standard features (or functions) of the software environment in which the program is installed.

12. NOTICE TO THE USER AND/OR A PATIENT



Any serious incident that has occurred in relation to the software should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

13. DOCUMENT HISTORY AND VERSION CONTROL

Version	Version Date	Summary of changes	Author	Related documents
1.0	2022-12-24	Created	Pulavskyi A, Kolyesnik O	
2.0	2022-12-25	Add Chapter 8 "SW for ANDROID"	Pulavskyi A	
3.0	2023-01-02	Revision all document	Pulavskyi A, Kolyesnik O	
4.0	2023-01-23	Add Chapter 8.1-8.2	Pulavskyi A	
5.0	2024-04-13	Revision all document	Pulavskyi A	