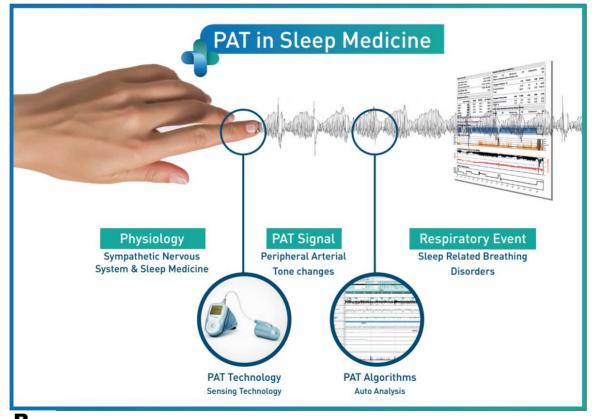




Itamar Medical REF OM2197444



R^{only} Caution: Federal law restricts this device to sale by or on the order of a licensed healthcare practitioner

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EN ISO 13485:2016 See appendix D for contact information of the regulatory authorized representative

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Edition Table

Edition	Date	Description	Chapter	Pages
1	Jan 2020	Initial Based on OM2197434 Ed.23 Removed Graphics and Tables	All	All

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1 Introduction to the zzzPAT

Note: Throughout this document, the references WatchPAT[™], WatchPAT and WP are referring to all 4 devices (WP200, WP200U, WP300 and WP-ONE (WP1)) unless specified otherwise

1.1 Intended Use/ Indications for Use of the Watch-PAT200

The Watch-PAT200 ("WP200") is non-invasive home care device for use with patients suspected to have sleep related breathing disorders. The WP200 device is used as a diagnostic aid for the detection of sleep-related breathing disorders and sleep staging (Rapid Eye Movement (REM) Sleep, Light Sleep and Deep Sleep). The device generate a peripheral arterial tonometry ("PAT") Respiratory Disturbance Index ("PRDI"), Apnea-Hypopnea index ("PAHI") and PAT sleep staging identification ("PSTAGES") and optional snoring level and body position discrete states from an external integrated snoring and body position (SBP) sensor. The device's "PSTAGES" and SBP provide supplemental information to its PRDI/PAHI. The device's "PSTAGES" and SBP are not intended to be used as the sole or primary basis for diagnosing any sleep related breathing disorder, prescribing treatment, or determining whether additional diagnostic assessment is warranted.

The WP200 is not indicated for children less than 17 years old.

1.2 Intended Use/ Indications for Use of the Watch-PAT200U and WP300

The Watch-PAT200U (WP200U) and Watch-PAT300 (WP300) devices are non-invasive home care device for use with patients suspected to have sleep related breathing disorders. The WP200U and WP300 are diagnostic aid for the detection of sleep related breathing disorders, sleep staging (Rapid Eye Movement (REM) Sleep, Light Sleep, Deep Sleep and Wake), snoring level and body position. The devices generates a peripheral arterial tonometry ("PAT") Respiratory Disturbance Index ("PRDI"), Apnea-Hypopnea index ("PAHI"), Central Apnea-Hypopnea index ("PAHIc"), PAT sleep staging identification (PSTAGES) and optional snoring level and body position discrete states from an external integrated snoring and body position sensor. The device's PSTAGES and snoring level and body position provide supplemental information to its PRDI/PAHI/PAHIc. The device's PSTAGES and snoring level and body position are not intended to be used as the sole or primary basis for diagnosing any sleep related breathing disorder, prescribing treatment, or determining whether additional diagnostic assessment is warranted.

PAHIc is indicated for use in patients 17 years and older. All other parameters are indicated for 12 years and older.

Note: The presentation of pAHIc is subject to regulatory approval in the country

1.3 Intended Use/ Indications for Use of the WatchPAT[™]ONE (WP1)

The WatchPAT[™]ONE (WP1) device is a non-invasive home care device for use with patients suspected to have sleep related breathing disorders. The WP1 is a diagnostic aid for the detection of sleep related breathing disorders, sleep staging (Rapid Eye Movement (REM) Sleep, Light Sleep, Deep Sleep and Wake), snoring level and body

position. The WP1 generates a peripheral arterial tonometry ("PAT") Respiratory Disturbance Index ("PRDI"), Apnea-Hypopnea index ("PAHI"), Central Apnea-Hypopnea index ("PAHIc"), PAT sleep staging identification (PSTAGES) and snoring level and body position discrete states from an external integrated snoring and body position sensor. The WP1's PSTAGES and snoring level and body position provide supplemental information to its PRDI/PAHI/PAHIc. The WP1's PSTAGES and snoring level and body position are not intended to be used as the sole or primary basis for diagnosing any sleep related breathing disorder, prescribing treatment, or determining whether additional diagnostic assessment is warranted.

PAHIc is indicated for use in patients 17 years and older. All other parameters are indicated for 12 years and older.

1.4 The zzzPAT S/W – Definition

The zzzPAT is an analysis software package used with the WP devices to aid in diagnosis of sleep related breathing disorders, detects REM, Light Sleep, Deep Sleep and Wake stages and measure snoring intensity and body position states. The zzzPAT S/W displays the signals recorded by the WP devices, automatically identifies breathing disordered events, sleep stages and snoring and body position data and generates a comprehensive report for the physician.

1.5 Overview

The zzzPAT algorithms use the four WP channels: PAT, Pulse Rate, actigraphy and Oxygen saturation (either recorded in WP200 or derived in WP200U/WP300/WP1) for the detection of sleep related breathing disorders and sleep staging (Rapid Eye Movement (REM), Light Sleep, Deep Sleep and Wake). In WP200U, WP300 and WP1, using the RESBP's respiratory movement channel in addition to the other WP channels, allows further identification of central apnea.

The zzzPAT uses WP's snoring and body position channels to generate snoring level and body position discrete states. The software issues comprehensive reports of the study, with statistics and graphic presentation of the results. The whole night data can be viewed and the automatically detected events can be revised manually.

Note: Throughout this document, the Snore and Body Position sensor is referring to both SBP sensor and RESBP sensor unless specified otherwise. In WP200(U)/WP300, the use of Snore and Body Position sensor is optional and according to physician preference. The use of RESBP sensor is subject to regulatory approval in the country.

This manual provides the information necessary for routine use of the zzzPAT software.

Restrictions

The tracings and calculations provided by the WP systems are intended as an aid for Sleep Breathing Disorders diagnosis. They are explicitly not to be regarded as a sole incontrovertible basis for clinical diagnosis.

• The zzzPAT software should be used only on compatible computers that meet the requirements specified in this document.

- Running other programs, commercial or customized, simultaneously with the zzzPAT may interfere with its proper function.
- Sleep/Hibernate features should be disabled in case of shared database configuration.

2 Installation

2.1 Overall Description of zzzPAT Software

zzzPAT is a proprietary PC software developed specifically for managing and analyzing data recorded by the WP device. The software displays and stores the recorded signals, and provides a set of analytical functions for interpretation purposes.

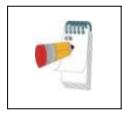
In WP200(U)/WP300 a USB cable is used in order to read the data recorded by the WP on the internal memory card. The zzzPAT S/W automatically detects the data on the internal memory card once the WP is connected to the PC via the USB communication cable. In WP1, an internet connection is used in order to read the data recorded by the WP1. The zzzPAT S/W automatically opens a list with all registered patients that the study was not yet retrieved from the web server.

Please refer to Section 0 for required PC configuration.

zzzPAT can operate in two modes:

Standalone - for use on a single PC with a local database.

Shared Access - for use in a networked environment where multiple zzzPAT stations access a single, shared database.



Note

It is strongly advised to coordinate the setting of **shared access** zzzPAT operation mode with an Itamar Medical representative. Extra training is crucial for proper operation.

The zzzPAT mode of operation is determined during installation as further described in the Installation section of the Extended and illustrated guidance

3 Setting Up zzzPAT Configuration

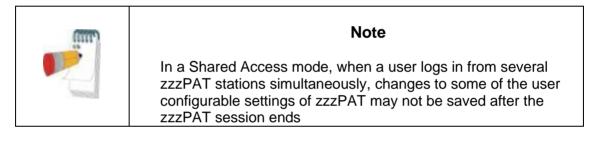
3.1 Setup>Directories

Displays the zzzPAT working directory, the name of the currently connected database, the files directory (signal files data) and the USB drive.

Select "DB Logged Users" in order to see who is connected to the shared database. The list will contain all computers' names that use the same shared database and have the zzzPAT application up and running.

3.2 Setup>User Settings

The user can change the following Setup parameters by opening the 'User Settings' dialog box from **Setup>User Settings**. 'User Settings' setup parameters are stored in the zzzPAT database for each user (either the local database in a standalone installation or the shared access database in a Shared Access installation).



When all settings changes are completed, click **OK** to close the Settings dialog box.

See Extended and illustrated guidance for detailed description

3.3 Setup>General Settings

Only a user, with 'User Administration' permission, can change the following Setup parameters by opening the 'General Settings' dialog box from **Setup>General Settings**. 'General Settings' are stored in the zzzPAT database (either the local database in a standalone installation or the shared access database in a Shared Access installation).

These settings are global. Modified settings become available to all users.

When all settings changes are completed, click **OK** to close the General Settings dialog box.

4 Using zzzPAT

4.1 **Preparing a New Study**

Preparing the Patient file is a mandatory stage in the preparation of the WP devices for a sleep study.

4.1.1 Launching zzzPAT

- Launch 'zzzPAT' by clicking the zzzPAT icon to n your desktop.
- If the zzzPAT icon is launched the login dialog opens:
- Enter Login and Password. When a Shared Access mode is installed, the login screen allows the user to choose to which database the zzzPAT will connect.
- The login dialog has two options for Login type:
 - Active Directory (current domain server).
 - Users from zzzPAT database
- If applicable, select the desired database to connect to.
- Enter your login name and password and click **OK** to continue.

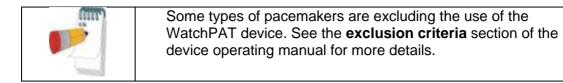
4.1.2 Preparing a New Study

The New study window will be opened with fields according to default device type (WP200(U)/WP300/WP-ONE) according to the configuration.

4.1.2.1 Preparing a New Study (WP200(U)/WP300)

- Make sure the device is connected to the PC with the zzzPAT software using the USB cable.
- Click File>New Study Details in zzzPAT, or click the 'New Study' icon A in the tool bar.
- The 'New Study' dialog box appears.
- Fill the mandatory Patient ID in the Patient fields.
- Insert any additional information if needed, the rest of the fields are optional.
- Select "Pacemaker" if the patient has an implantable pacemaker. The zzzPAT will automatically detect segments where the PAT pulses seem to be paced, i.e. very low pulse rate variations (near to stable) and exclude these segments from the analysis.

Note	
------	--



- Select "Study with Tamper-Proof Testing" if you want to use the Patient Identification Bracelet. By enabling this option you can use the bracelet in order to verify that the identified patient is indeed the one sleeping with the device (see Tamper-Proof testing in WP Operation Manual)..
- Select "Multiple Nights" option in order to run up to 3 nights with the same WP device
- WP300: The "Run Device Test" option appears only when a device is connected. By selecting this option, the connected device will be tested and the results will appear in a separate window. This test will perform the same "Test Device" operation run from a standalone device (see Operator Tests in WP Operation Manual).
- WP300: The "Run device test while saving.." option appears only when a device is connected. By selecting this option, the connected device will be tested automatically when user selects the 'Save to WatchPAT' and the results will appear in separated window. This test will perform the same "Test Device" operation run from a standalone device.
- To register a study for the WP1 device use the "Switch to WP-ONE Device" button
- Click the **Save to WatchPAT** button.



Note

The units used for weight and height in the 'New Study' dialog box are defined by the regional settings of the PC.

If WP contains data (either a night study that has not been loaded to the zzzPAT Database or new patient data that has been prepared but not used in a study), the Data Not Loaded dialog box opens

• After saving the patient information to the WP the successefully saved study message appears

Click **Yes -** if you wish to prepare additional study. Click **No -** if you wish to exit the 'New Study' dialog box.

• Disconnect the USB cable from the device.

4.1.2.2 Preparing a New Study (WP1)

- Make sure that there is an active internet connection
- Click File>New Study Details in zzzPAT, or click the 'New Study' icon Rain the tool bar.

- The 'New Study' dialog box appears.
- Fill the mandatory fields: Patient ID, Device SN and PIN.
- Make sure the Email address appears on screen is the correct address for receiving email notifications (Email address is defined during setup).
- Insert any additional information if needed, the rest of the fields are optional.
- Click the **Register WP-ONE** button.
- To initiate study for WP300 or WP200(U) Device use the "Switch to WP Device" button.

inn	Note
	If same WP1 device SN is already registered, an error will appear to notify user to insert correct/other device SN. Fill in the correct information and press the Register WP-ONE button again.

The units used for weight and height in the 'New Study' dialog box are defined by the regional settings of the PC.

• After registering the patient information to the Web Server the successefully saved study message appears:

Click **Yes -** if you wish to prepare additional study. Click **No -** if you wish to exit the 'New Study' dialog box.

4.1.3 New Study screen features

Besides the main screen fields required for preparing a new study, there are additional fields that allow thorough documentation of the patient's past and current medical condition. In addition, zzzPAT enables you to load patient details from previous studies. Other features in this screen enable organizing the studies into groups using categories of your choice.

See Extended and illustrated guidance for detailed description

4.2 Managing Patient Studies

WP200(U)/WP300: After a WP sleep study is done, connect the WatchPAT into the USB, open zzzPAT application and press File>Load Study and Analyze from the main menu. The recorded digital data is loaded into the zzzPAT databaseand automatically analyzed. WP1: After a WP sleep study is done, open zzzPAT application and press File>Load Study and Analyze from the main menu. A window will be opened with all registered patients that the study was not yet retrieved from the web server. Select study to download and the recorded data will be loaded into the zzzPAT database for selected patient. The recorded data is automatically analyzed. Once a study is laoded the user can review, edit, add Diagnosis and Recommendations and produce a Sleep Report. Previously loaded studies can be opened and reviewed.



Note

To switch between WP1's registered patients list to download study from WP200(U)/WP300 device select the "Switch to WP200/300 Device" button.

4.2.1 File>New Study Details

Prepares the Patient file on the WP for a sleep study (Section 4.1).

4.2.2 File>Load Study and Analyze

This command loads the sleep study data from the device and saves it into the zzzPAT database.

While loading the data the message 'Loading Study' appears on the screen indicating that the data is being transferred from the WatchPAT to the hard disk and the patient file is saved in the database.

At this stage Automatic Analysis is performed and the results are saved in the database. After the Automatic Analysis is completed the results are displayed on screen. The user has the option to display the "Sleep report".

WP200(U)/WP300: When a multi-night study is loaded all the night studies are loaded automatically and the last loaded study will be displayed. Use the Open Study dialog to open and review all the night studies.

4.2.3 File>Open Study

Opens studies stored in the zzzPAT database from previously loaded studies. Double click on a patient and the studies for that patient are listed with the date/time of each study.

Double click the study icon to load and display recorded information on the screen. If several Analysis exist for a study a dialog will appear prompting to select the Analysis to open.

Select Studies button

Enables the user to define, select and organize the displayed studies in the 'Select Patient Study' dialog box.

See Extended and illustrated guidance for detailed description

4.2.4 File>Save Study Results

Saves the patient study results (events) currently being viewed without closing zzzPAT, and sets the study as reviewed. This feature is important when Respiratory events are edited (added or deleted) and the new events need to be saved for future zzzPAT sessions.

4.2.5 File>Save as New Analysis

Saves the current Analyisis with the current events and signals as a new Analysis.

4.2.6 File>Close Study

Closes the patient study currently being viewed without closing zzzPAT.

4.2.7 File>Exit

Closes both the patient study being viewed and the zzzPAT.

4.2.8 Edit>Study Details

Opens the 'View Study Details' dialog box with current patient information. This information can be edited by clicking the **Edit** button. Authorized users can change the patient ID only once.

4.2.9 Edit>Undo

Choosing "Undo" or clicking 2 on the zzzPAT toolbar enables the user to undo the last operation.

4.2.10 Edit>Sleep Stages Editing Using Mouse

Choosing this option or clicking on the zzzPAT toolbar toggles the option that allows to manually edit the sleep stages and CSR times with the mouse. If option is selected and mouse hovers over a sleep stage event (i.e. Light Sleep) the mouse arrow changes to a hand and the selected event may be dragged or resized accordingly.

4.2.11 Edit>Copy...

When a signal section is highlighted, the Copy feature is enabled to allow the user to copy the desired data either to the clipboard as an image or to a file in binary format.

4.3 The Display Screen

The main screen displays the WP recording waveforms with the events that were detected by the automatic analysis. The traces are displayed synchronized to a uniform time base.

See Extended and illustrated guidance for detailed description

4.3.1 The All Night Window and View Channels

It is possible to view any channel you select in an 'All Night Window' display even if you change the time base for viewing all the channels of the study.

- To display the All-Night window, navigate through View>All Night Window, check the 'All Night' option.
 - Or View>Channels.
- Check the box to the left of 'Visible' in the **All Night** section.
- Select the channel you wish to display in the 'All Night Window'.

See Extended and illustrated guidance for detailed description

4.3.2 The Active Channel

Clicking on a channel or a channel title activates that channel (the color of the activated signal and titles will change).

A right-button click on a Channel title activates the channel and opens a pop-up menu

4.3.3 Status Bar

The Status Bar at the bottom of the screen contains the following information:

- Database connection (Shared or Local)
- Real Time Clock
- Highlighted segment start time

- Highlighted segment end time
- Duration
- Time mode (REL/ABS)

4.4 Signal Display Options

4.4.1 View>Define Channels in Montage

The Montage screen consists of a list of all signal channels available for viewing:

- PAT- PAT signal.
- Pulse Rate Derived from the PAT signal.
- PAT Amplitude PAT signal envelope.
- SaO₂ Arterial blood Oxygen saturation level.
- Actigraph Actigraphy signal.
- WP Stages REM, Light Sleep, Deep Sleep and Wake stages.
- Body Position (optional)
- Snore (optional)
- Resp.Mov (optional)

See Extended and illustrated guidance for detailed description

4.5 Review, Analysis and Report Study

4.5.1 Data Analysis

The zzzPAT software performs an automated analysis of the WP recorded signals, The analysis provides an evaluation of respiratory events during sleep, oxygen saturation, pulse rate and sleep stages statistics. Also, it provides snoring and body position statistics when the SBP/RESBP sensor is used.

4.5.1.1 Generating an Analysis

Recorded study data is automatically analyzed after being loaded from the device. You can also execute automatic data analysis by clicking **Analyze**>**Reload study and analyze**.

This function reloads the saved study data and executes the automatic analysis. If the user changed the file (adding/deleting/modifying events), these changes will be erased and will not impact the analysis.

When used on a file that was previously analyzed and saved with an older version of zzzPAT, this function creates a new analysis using the current version of the zzzPAT software.

REM Analysis is part of the automatic analysis described above.

Under certain conditions, REM analysis is unable to conclusively determine REM periods from the recorded signals.

When this occurs, the display will include only sleep and wake stages, and in the report the REM and sleep stages statistics section shall be disabled stating "Inconclusive REM Detection".

4.5.2 Event Management

Events marked by automatic analysis are shown in color-shaded boxes. Placing the cursor on an event opens a tool-tip with the following information:

- Event name
- Event created by...(e.g. Automatic analysis or user)
- Start time
- Duration

See Extended and illustrated guidance for detailed description

4.6 Reports

All reports can be reviewed on screen and printed.

The toolbar in report view mode includes the following items:

- To print a report, click on the Print button.
- To export a report to a different format, such as pdf, rtf, html, etc., click on the Export button .
- User can see how many pages there are in a report and choose which page to view by using the icons.

See Extended and illustrated guidance for detailed description

4.6.1 Report>Sleep Report

The sleep report generates a one, two or three page report that provides a summary of the subject's sleep study according to the settings

The first page of the report includes Patient Information, the Sleep Study Information, Referring Physician, Medical history, Diagnosis and Recommendations.

The second page presents the study results including Sleep Summary, PAT Respiratory Disturbance Index (pRDI), PAT Apnea Hypopnea Index (pAHI), PAT Central Apnea Hypopnea Index (pAHIc)*, Number of events, Percentage of total sleep time with Cheyne-Stokes Respiration (%CSR)*, Oxygen Saturation Statistics including the Oxygen Desaturation Index (ODI), mean, maximum and minimum oxygen saturation levels, Oxygen Saturation analysis, Pulse Rate statistics and REM Sleep analysis. It also includes graphical displays of Respiratory Events, Snore and Body Position chart (in case a Snore/Body Position sensor was used), Oxygen Saturation, Pulse Rate, Wake/Light Sleep/Deep Sleep and REM stages.

The third page presents AHI Severity Graph, pie charts of sleep/wake states and sleep stages, Sleep Latency, REM Latency, Number of wakes and Sleep Efficiency and Snore and Body Position statistics (in case a Snore/Body Position sensor was used).

*pAHIc and %CSR data are supplied in case RESBP sensor was used. The presentation of pAHIc and %CSR is subject to regulatory approval in the country.

Definitions:

Sleep Time: Total time in hours, during which the patient is asleep.

PAT Respiratory Disturbance Index (pRDI): the estimated number of respiratory events divided by the valid sleep time. Provided in Respiratory Events/Hour. The index is calculated during "All Night", REM and Non REM valid sleep time.

PAT Apnea Hypopnea Index (pAHI): the estimated number of Apneas and Hypopneas events divided by the valid sleep time. Provided in Apnea and Hypopnea events/Hour. The index is calculated during "All Night", REM and Non REM valid sleep time.

PAT Central Apnea Hypopnea Index (pAHIc): the estimated number of Central Apneas and Hypopneas events divided by the valid sleep time*. Provided in Central Apnea and Hypopnea events/Hour.

Percentage of total sleep time with Cheyne-Stokes Respiration (%CSR): the estimated percentage of CSR pattern from the valid sleep time*.

*valid sleep time in pAHIc and %CSR might be different from the valid sleep time used in the calculation of other indices, as the RESBP sensor needs to be valid for this calculation as well.

Oxygen Desaturation Index (ODI): the number of oxygen desaturation events (4% minimum desaturation) divided by the valid sleep time. Provided in Desaturation Events/Hour. The index is calculated during "All Night", REM and Non REM valid sleep time.

REM % of Sleep Time: REM sleep stages as percent of total sleep time.

Snore level in dBs: Because snoring can be a sign of sleep apnea, zzzPAT provides snore statistics. The threshold is determined according to DB. The amount of snoring is calculated as the percentage of sleep time over the specified DB threshold. The snoring volume level is graphically displayed (40 - 70 dB range).

Body Position: Five body position levels are graphically displayed (supine, right, left, prone and sit). Because the frequency of apneic events during sleep depends on patient position and sleep stage, zzzPAT provides information about the duration of sleep per each position – supine, prone, left, right, and sit. The corresponding percentage of time spent in each sleep position is displayed in a graph. Moreover, all recorded events such as respiratory disturbance index (pRDI), apnea/hyperpnoea index (pAHI), and desaturation index (ODI) are also provided in the report for each body position as well as non-supine position.

AHI Severity Graph: Indicates the severity of obstructive sleep apnea (OSA). According to the American Academy of Sleep Medicine (AASM) it is categorized into mild (5-15 events/hour), moderate (15-30 events/hr), and severe (>30 events/hr). The severity categorization limits can be modified, see Setup>General Settings>Analysis/Statistics Parameters.

4.6.2 Report>Sleep Report for Selected Time Range

This option generates a two-page report that provides a summary of the subject's sleep study in a **Selected Time Range** that is selected by the user.

To generate a report for a selected time range:

- Highlight the desired section of the waveform in the Signals Display Window, by clicking and dragging the mouse.
- Click Report>Sleep Report for Selected Time Range.

See Extended and illustrated guidance for detailed description

4.6.3 Report>Event Report

This report provides statistics on different event types identified by the zzzPAT automatic analysis and by the User. A graphical representation provides a quick way of looking at the event distribution, and the summary section provides statistical information. When displayed on screen, the user can double-click on a particular event name (on the relevant row below the chart) to get a detailed list of all the events of this type.

4.6.4 Report>Sleep Indices

This report provides a summary of study results, including pRDI, pAHI, ODI and Sleep Time.

4.6.5 **Report>Patient Follow-up Report**

This report provides a way of comparing multiple studies for the same patient. A graphical representation of the pRDI, pAHI and ODI for the different studies provides a quick way of determining a trend through the studies.

The Sleep % over the defined Snoring threshold dB will be displayed as well.

4.6.6 **Report > Report for Patient**

This report is designed in the form of a letter addressed to the patient that informs the patient about the sleep test results. It provides the following patient details:

- Total sleep time
- Apnea/Hypopnea index (AHI)
- Respiratory disturbance index (RDI)
- Desaturation index (ODI)
- Rapid eye movement (REM)

It also compares these to the normal average indices.

To produce the report for the patient:

- 1. In the Report menu, choose Report for Patient.
- 2. Print the report by clicking on the Printer icon

4.6.7 Printing

The study signals recorded by the WP and the zzzPAT analysis can be printed by:

Either clicking on the print icon an the toolbar or selecting **File>Print**. User has a number of options for printing:

- Printing the entire study
- Printing the screen
- Printing specific sections defined by time range
 Printing specific channels

5 Exporting Data

6 Tools

7 Database Wizard

8 Troubleshooting

Installation		
Trouble	Possible Cause	Solution
zzzPAT installer fails to run.	Auto run function in Windows is not activated.	Open My Computer>zzzPAT CD and double click 'Setup.exe'.
	Windows version not compatible with zzzPAT.	Use PC with appropriate Operation System.
	Hardware configuration below minimum required.	Must have at least 128 MB RAM, and a Pentium processor for zzzPAT installer to run.
zzzPAT fails to recognize WatchPAT (WP200 only)	USB drive needs to be re-defined.	Select Setup->"Set WatchPAT Drive". Insert WatchPAT device to USB Drive. Click OK. "The system is searching for WatchPAT device" message should appear. At the end, a list containing the WP200 drive should be displayed. Select the WatchPAT drive.and click Ok.
Under Windows XP, user cannot load study or operate 'Database Wizard' utilities, despite having proper zzzPAT user permissions.	User does not have writing permission to the drives these applications are located on.	Check user's writing permissions per section, and redefine as necessary.

Table 1 - Troubleshooting, Installation

zzzPAT		
Trouble	Possible Cause	Solution
Analyze>Reload	User does not have	zzzPAT Administrator can modify user's
Study and Analyze	permission to operate	Extended Permissions.
option in the	this utility.	
zzzPAT window is	Insufficient free space on	Free enough disk space to exceed the
disabled	hard disk	minimum requirement of 100MB and try
		again
Cannot Load Study	There is less than	Free enough disk space to exceed the
(function is	200MB of free hard disk	minimum requirement of 200MB and try
disabled)	space	again

zzzPAT will not	Some zzzPAT files may	Uninstall and reinstall zzzPAT.
start, or behaves	be damaged/overwritten	
unpredictably		
The open file does	File was saved with an	Run the analysis by selecting
not show REM	older version of zzzPAT	Analyze>Reload Study and Analyze
	that did not have REM	
	capabilities or REM	
	could not be calculated	
	because of the algorithm	
	restrictions.	
Cannot generate	Less than 100MB of free	Free enough disk space to exceed the
Sleep Report -	disk space	minimum requirement of 100MB and try
Sleep Report button		again
is grayed out	No study is loaded or	Open the desired study. If the study is
	study is invalid	open, it may have invalid data and
		therefore is not usable
User cannot log on	zzzPAT will not open if	Ensure no other user left an open
to zzzPAT	another session is open	zzzPAT session on the PC. If you cannot
	under a different user	verify, restart PC
	User is not defined in	Define user by zzzPAT administrator
	zzzPAT	
Send report by	Microsoft Outlook was	Define Microsoft Outlook (or Outlook
email fails	not defined as the	Express) as the default mail client
	default mail client.	
Changes to Events	Events names are saved	Run the analysis by selecting
Names do not show	with the saved analysis.	Analyze>Reload Study and Analyze
up on screen	Changes will become	
	visible only after running	
	analysis again	
Errors while printing	Non-compatible printer	A postscript printer driver provides the
	driver	most reliable operation with the zzzPAT.
		Install a suitable postscript driver for the
		printer in use and try again

	1	
After clicking New	Inadvertent double	Press Alt-Tab to bring the dialog box
Study in zzzPAT	clicking the New Patient	back to the front
the dialog box	button may cause the	
disappears and	dialog box to be hidden	
zzzPAT is frozen	in the background	
"Enable multi-night	The WP has S/W	Upgrade the WP S/W to the newest S/W
option" does not	version lower than	(call Itamar Help Desk for the upgrade)
show in New Study	2.2182	
dialog		
"Enable tamper-	The WP has S/W	Upgrade the WP S/W to the newest S/W
proof testing option"	version lower than	(call Itamar Help Desk for the upgrade)
does not show in	2.2182	(
New Study dialog		
No data of snoring	SBP/RESBP sensor was	Make sure to connect SBP to WP.
and body position	not connected to WP	Make sure to connect RESBP to
presented		WP200U or WP300 only
	RESBP sensor was	Make sure to connect RESBP to
	connected to WP200	WP200U or WP300 only
	instead of	
	WP200U/WP300	
	Embedded SW not	RESBP for WP200U: Make sure to use
	compatible	embedded SW 3.3228 and above
No data of Resp	RESBP sensor was not	Make sure to connect RESBP to
movement	connected to WP200U	WP200U ot WP300 only
presented	or WP300	
Invalid Oximetry	Signal inadequacy due	If the invalid oximetry reading is repeated
reading (oximeter	to Sensor fault / reading	even at rest conditions then change
values of 127%)	during motion / poor	uPAT probe. If still invalid change uPAT
	pulsatile signal strength	cable or contact Itamar Medical customer
		support.
		odbo
L		

Table 2 - Troubleshooting, zzzPAT

Shared Access	Shared Access Mode zzzPAT		
Trouble	Possible Cause	Solution	
User cannot log on to zzzPAT	In Shared Access mode user may be defined in the shared database and not in the local one, or vice-versa	Define user in the second database, or, Exit zzzPAT and log on to the other zzzPAT database (either local or shared)	
Cannot find saved file	File saved to the other database (either the local or shared database)	 Verify to which database zzzPAT is connected (the database connection appears in the zzzPAT status bar) Exit zzzPAT Start zzzPAT and select the other database to connect to Select File>Open and search for the desired file 	
Shared database is not available	Network is disconnected	 Make sure the zzzPAT station is properly connected to the network, and that network services are available to it. Consult your system administrator if necessary 	
Cannot open selected study	Study is in use by another zzzPAT user	 Wait until the other user closes the study and try again 	

Table 3 - Troubleshooting, Shared Access Mode zzzPAT

Utilities		
Trouble	Possible Cause	Solution
Preparing for new	The device was	Do not remove the device before study
study failed	disconnected from the USB too soon.	successfully saved dialog box appears
WP200(U) only: New Study or zzzPAT do not recognize the WP200(U)	The volume name has been erased	Format drive with volume name "WP200"
WP300 only: New Study or zzzPAT do not recognize the WP300	The FTDI drivers were not properly installed	Make sure the FT4222H Interfaces A, B, C, D appear on the "Universal Serial Bus controllers" section of Device Manager when a WP300 is connected to USB. In case these interfaces do not appear please contact Itamar Medical customer support
Database Tools button in the 'Database Wizard' window or Tools in zzzPAT is disabled	User does not have permission to operate this utility	zzzPAT Administrator can modify user's Extended Permissions
User Administration button in the 'Database Wizard' window or Tools>User Administration is disabled	User does not have permission to operate this utility	zzzPAT Administrator can modify user's Extended Permissions
Database Tools does not open	zzzPAT or New Study is running	Close zzzPAT or New Study and open Database tools
Super User forgot his password	-	Contact Itamar Medical Representative

Table 4 - Troubleshooting, Utilities

Appendix A: LICENSE AGREEMENT

This License Agreement represents the complete and exclusive understanding between you and Itamar Medical. The document can be viewed at https://www.itamar-medical.com/lmages/licensewp.pdf

Should you have any questions concerning this License Agreement, or if you desire to contact Itamar Medical for any reason, please write to:

USA: Itamar Medical Inc. 3290 Cumberland Club Drive, Suite 100 Atlanta, Georgia 30339, USA Tel: 1 888 748 2627

Worldwide: Itamar Medical Ltd. 9 Halamish St., P.O.Box 3579 Caesarea Ind. Park, 3088900, Israel Tel: +972 4 617 7000

Appendix B: Regulatory representative

Itamar Medical's authorized regulatory representative:



The Squaire 12, Am Flughafen, 60549 Frankfurt am Main, Germany

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