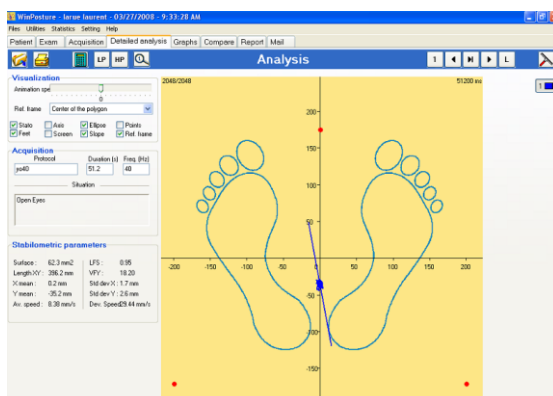




Software User's Manual



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Foreword

We appreciate your confidence in the MEDICAPTEURS Company and we would like to thank you for choosing WinPosture NV Technology.

"WINPOSTURE NV Software" has been designed to be user friendly and only requires basic computer skills. The friendliness of the software however, does not replace **the necessity of reading this manual** to guide you step by step through the procedures to properly use the "WINPOSTURE NV Software", and it will also help you save valuable time.

In addition to this manual, you will find the following document on your WINPOSTURE NV Software CD:

- The "WINPOSTURE NV" Software and platform User's Manual.

Enjoy your reading and welcome to the prestigious WINPOSTURE platform users' Club.

Contents

CONTENTS.....	5
WARRANTY.....	9
IMPORTANT NOTICE	11
WINPOSTURE NV SOFTWARE START UP	13
EXIT WINPOSTURE NV	13
WINPOSTURE NV SOFTWARE NAVIGATION.....	14
MENU BAR.....	15
"FILES" MENU.....	15
"UTILITIES" MENU.....	17
"STATISTICS" MENU	18
"CONFIGURATION" MENU.....	19
PATIENT VISIT FLOW CHART	25
"PATIENT" TAB	26
TOOLS BAR.....	26
CREATING A NEW PATIENT FILE.....	27
SEARCHING FOR AN EXISTING PATIENT FILE	27
MODIFYING AN EXISTING PATIENT FILE.....	27
"EXAM" TAB	28
TOOL BAR.....	28
CREATING A NEW EXAM	29
SEARCHING FOR AN EXISTING EXAM	29
MODIFYING AN EXAM FILE	29
"ACQUISITION" TAB	30
TOOLS BAR.....	31
PERFORMING A MEASUREMENT (ACQUISITION)	31
" DETAILED ANALYSIS" TAB	32
TOOLS BAR.....	32
DISPLAY TOOLS	34
ZOOM	35
POSTURAL PARAMETERS	35
"GRAPHS" TAB	36
TOOLS BAR.....	36
GRAPHS DISPLAY OPTIONS	37
FOCUSED ANALYSIS.....	37
GRAPH SELECTION	38
FFT	39
"COMPARISON" TAB	40
GENERAL INFORMATION	40
COMPARISON OF 2 OR 4 MEASUREMENTS	41
"REPORT" TAB	42
TOOLS BAR.....	42
INSERTING A COMMENT.....	43
INSERTING A PICTURE.....	43

"MAIL" TAB	44
PRINTING.....	45
EXPORTING DATA	46
SAFEGUARDING THE PATIENT DATABASE.....	47
PATIENT DATABASE BACK UP	47
RELOADING A SAVED PATIENT DATABASE.....	47

Warranty

For a period ending on the date of the twelfth month anniversary of the date of delivery (such period being the "Warranty Period"), the equipment, **used under normal operating conditions and not subject to misuse or abuse**, shall be free from defects in material, workmanship and design and shall operate and conform to the performance capabilities, specifications, functions and other descriptions and standards as described in the specifications.

During the Warranty Period and subject to the exclusions below, Manufacturer (Medicapteurs SAS) at its option and expense, shall promptly repair or replace equipment that does not conform to the warranty. The procedure for effecting warranty replacement or repair will be as specified by Manufacturer. Purchaser shall ship Equipment for warranty replacement or repair to Manufacturer at Purchaser's expense, and Manufacturer shall ship repaired or replaced equipment to Purchaser at Manufacturer's expense.

For proper shipping of the equipment to MEDICAPTEURS for repair or maintenance, Purchaser shall include complete sender's information, the equipment serial number and a brief description of the problem.

Purchaser shall use preferably the original shipping package. If it is not available, Purchaser shall contact a professional shipping service company which will assist Purchaser with proper packaging instructions and materiel.

Limitations of warranty and disclaimer

The Software:

The Software is and shall remain the exclusive property of Manufacturer. This license confers no title or ownership in the Software and is not a sale of any rights in the Software. No license other than that specifically stated herein is granted to Purchaser, and Purchaser shall have neither right to sublicense the Software nor any right under any patent, trademark, copyright, trade secret or other intellectual property of Manufacturer other than that granted by this Agreement.

License and Legal Penalties:

Manufacturer grants Purchaser, a personal, non-exclusive, non-transferable, perpetual license to use the Software in the product under the terms and conditions stated herein. If the license is transferred by the Purchaser to a third party without the company's written consent and approval, the Purchaser and the Third Party shall be held jointly responsible for payment to the Manufacturer of a minimal compensation of 20 times the price of the software, without prejudice as to any other damage and interest. The software travels at the Purchaser's risk and expenses.

Purchaser shall not make any modifications to the Software or remove any proprietary, regulatory or safety notices of Manufacturer in or on the Software. Purchaser further agrees not to reverse engineer, decompile or otherwise reverse assemble any portion of the software or create derivative works based upon the Software.

This Software Agreement does not grant Purchaser any rights in connection with any trademarks or service marks of Product.

Manufacturer warrants to purchaser that, in case of any software it has identified at its own property, the software will substantially conform to the applicable Manufacturer's specifications in the date of installation and for a period that is consistent with the warranty offered herein. Manufacturer's sole obligation under this agreement is limited to responding to purchaser's contact and to using commercially reasonable efforts to correct reported problems by supplying purchaser with a corrected version of the Software.

Warranty

Copyright:

All title and intellectual property rights in and to the content that may be accessed through use of the Software is the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This agreement grants Purchaser no rights to use such content except as accessed through the Software. If the Software contains documentation that is provided only in electronic form, Purchaser may print copy of such electronic documentation.

Disclaimer:

Manufacturer does not warrant that operation of its Software will be uninterrupted or error free, or that any defects in the Software are correctable or will be corrected; or that functions contained in the Software will operate in the combinations which may be selected for use by purchaser to meet Purchaser's requirements. Manufacturer's warranty and seller's obligations will be void if the Software is modified without the prior written consent of Manufacturer.

Except for the express limited Software warranty for the Software, Manufacturer and seller expressly disclaim and exclude all other warranties, whether express, implied in law or otherwise to the fullest extent permitted by law, and the above limited Software warranty is in lieu of all obligations and liabilities on the part of the Manufacturer for damages arising out of or in connection with the Software, including without limitation any warranty of merchantability, satisfactory quality or fitness for a particular purpose.

Exclusions: Seller and Manufacturer shall have no obligations with respect to any defects, damage, or non-conformances of Equipment that result from: improper installation, operation or maintenance; unauthorized repair; tampering; any use of the Equipment not in conformance with the relevant Equipment specifications or from accidents, or "acts of God"; or other such occurrences after delivery. If any Equipment returned by Purchaser for repair or replacement is not defective or nonconforming or contains a defect or nonconformance caused by a factor outside the scope of Manufacturer's warranty, Manufacturer shall bill Purchaser at Manufacturer's normal service rate for services performed with respect to such defective returned Equipment or for "no fault found" with respect to returned Equipment which is not defective.

LIMITATION ON WARRANTY:

MANUFACTURER AND SELLER MAKE NO WARRANTIES REGARDING THE EQUIPMENT TO BE PROVIDED HEREUNDER OTHER THAN THE EXPRESS WARRANTIES IN THIS SECTION AND THERE SHALL BE NO IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT. THE SOLE REMEDIES OF PURCHASER FOR ANY BREACH OF WARRANTY ARE THE REMEDIES SET FORTH IN THIS SECTION. MANUFACTURER AND SELLER SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES TO CUSTOMERS OF PURCHASER.

Limitation of Liability: In no event shall Manufacturer or its Affiliates, Seller or suppliers be liable for indirect, special, incidental, consequential, punitive or other damages (including lost revenue, lost profit, lost data, downtime costs,) arising out of the use, inability to use, or the result of the use of the Equipment whether based on warranty, breach of warranty, contract, tort, or other legal theory, and whether or not advised of the possibility of such damages. In no event shall Manufacturer or its Affiliates, Seller or suppliers be liable to Purchaser for any damages, however based, in excess of the amount paid by the Purchaser to Seller for the Equipment.

IMPORTANT NOTICE

Your "WINPOSTURE NV Software" integrates a patient database (**patient files**) which contains private health information related to the patients and their specific measurements.

In order to avoid losing the studies performed with your software, it is **necessary to perform a BACK UP to save the patient database on a regular basis**; in fact any technical problem on your computer may affect and destroy such valuable data.

We highly recommend a minimum of one Back Up on a weekly basis on an external drive, CD RW, etc. (see page 47).

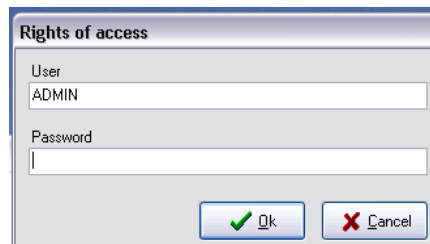
WINPOSTURE NV Software Start Up

- ✓ Launch the " WINPOSTURE NV Software", by double clicking on the following icon

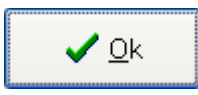


WinPosture Nv

- ✓ Within a few seconds, a window will open asking for the user's password :
Note: this security option is now mandatory for software utilizing confidential patient information.


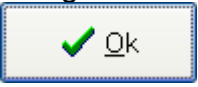
A dialog box titled "Rights of access" with a grey background. It contains two text input fields: "User" with "ADMIN" entered, and "Password" which is empty. At the bottom right, there are two buttons: "Ok" with a green checkmark icon and "Cancel" with a red 'X' icon.

The default user in the software is: "ADMIN" which does not require a password. To create your own user's name and password please refer to page 23.

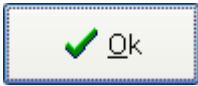
- ✓ Click  to start the program.

Exit WINPOSTURE NV

With the « Exit » Key:

- ✓ Click on the  located in the upper right corner of the screen.
- ✓ Confirm your action by clicking on .

With the "File Menu"

- ✓ Click on "File".
- ✓ Select "Quit".
- ✓ Confirm by clicking on .

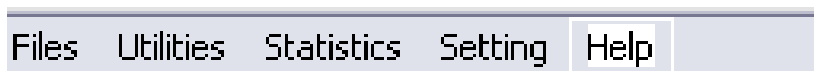
WINPOSTURE NV Software Navigation

Title Bar



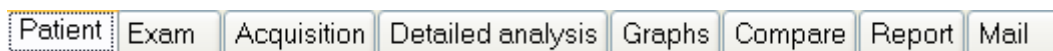
It includes the name of the software, the patient's last name and first name, the exam date and time of the recording.

Menu Bar



It contains the menu: Files – Utilities - Statistics - Setting - Help.

Selection Bar



It allows access the different phases of an assessment.
The typical process is done by clicking on the tabs from the left to the right.

Tool Bar



It includes the icons for quick access to the software functions.

Several tool bars are available according to the displayed screens.

Menu bar

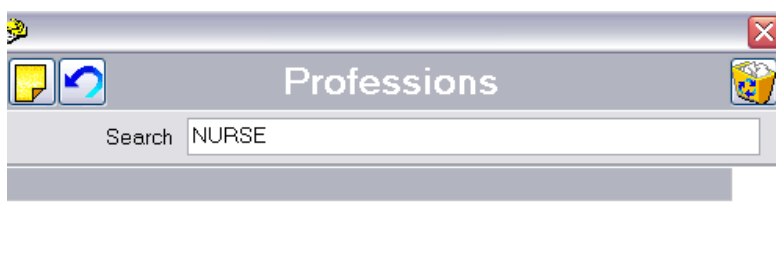
"Files" menu

This menu can be used for creating or changing pre-established lists which can be opened when completing the patient file, the examination, and for data acquisition.


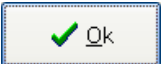
Available Lists

- Norms (normative data)
- Protocols of acquisition
- Pathologies
- Correspondents
- Professions


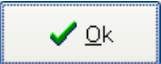
Adding Data To The List



For example : For the above mentioned lists, perform the following operations:

- ✓ Click on .
- ✓ Insert the text (Start with an upper case!)
- ✓ Click on .

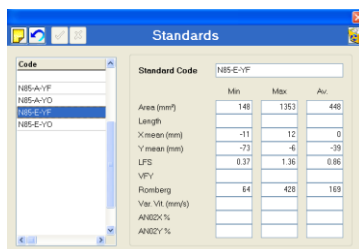
Deleting Data From The List


- ✓ Click on the item to erase
- ✓ Select .
- ✓ Confirm by clicking .

Menu bar

"Files" menu

Creating a Normative Database




✓ Click on .

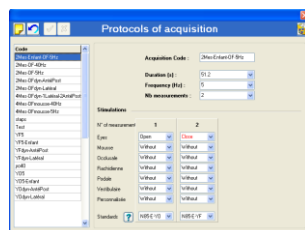
✓ Insert a code name for the new Normative Database Name.

✓ Add to or modify the parameters for the Normative Database.

Tips: You can increase or decrease the numeric values and move from one box to the next by clicking on the « tab » key.

✓ Click on .

Creating an Acquisition Protocol





An Acquisition Protocol is an **established series of automatic acquisitions** to perform with specific clinical parameters that the patient has to follow for each acquisition.

The protocol can include **one measurement only** (for example: Eyes Open at 5Hz - EO5) or a sequence of clinical events (for example : Eyes Open at 5Hz and then Eyes Closed at 5 Hz - EOEC5 -).

✓ Click on .

✓ Insert the title or a code name for the protocol.

✓ To modify the protocol's parameters, choose the options you want to select using the scrolling icon .

✓ Click on .

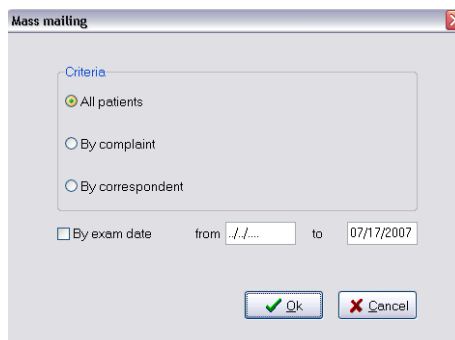
Menu bar

"Utilities" menu

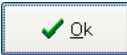
Exporting and importing exams

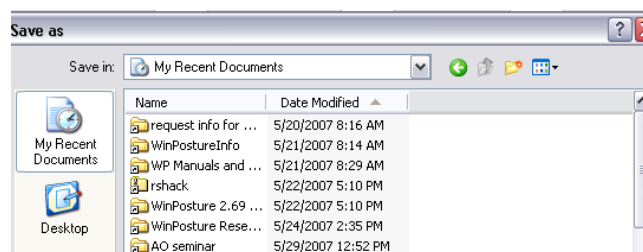
Exams can be imported or exported between "WINPOSTURE NV Software" users. Click on the option you selected and follow instructions.

Mass Mailing



The « Mass Mailing » function allows database selection according to specific categories:

- By exam date
 - By complaint
 - By correspondent
- ✓ Choose your type of selection by clicking on exam date or a time range of exam dates.
- ✓ Click  and the following window will open :



- ✓ Save your data as a text document:

To open the selected listing in a table format:

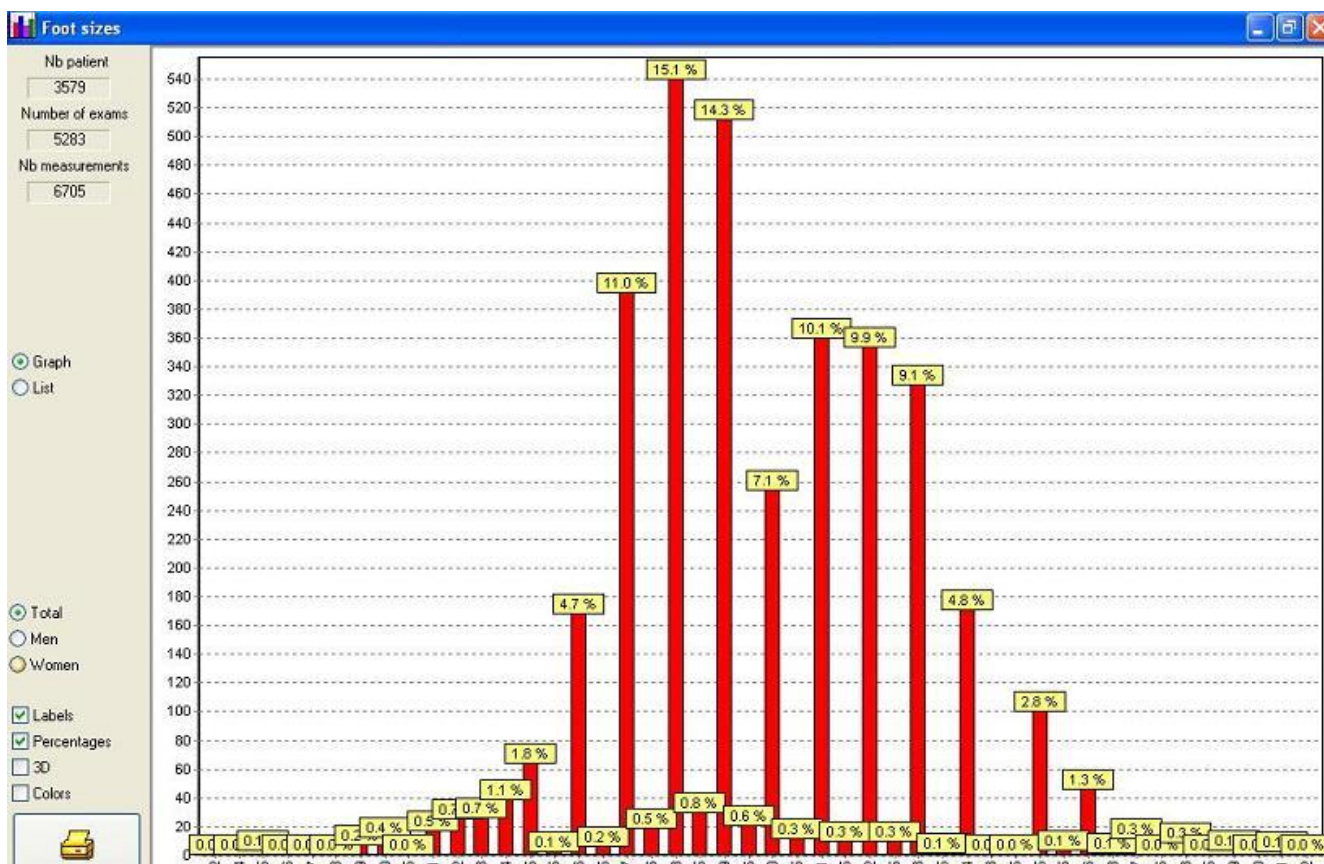
- ✓ Open a table (Excel for example).
- ✓ Load the table in a text format ".txt".
The lines and columns will be created automatically in your mail message.

Menu bar

"Statistics" menu

Allows displaying a listing or graph on the distribution of the patient file database according to selected parameters such as foot size, pathologies, for men or women or for the entire patient database.

Foot size statistics



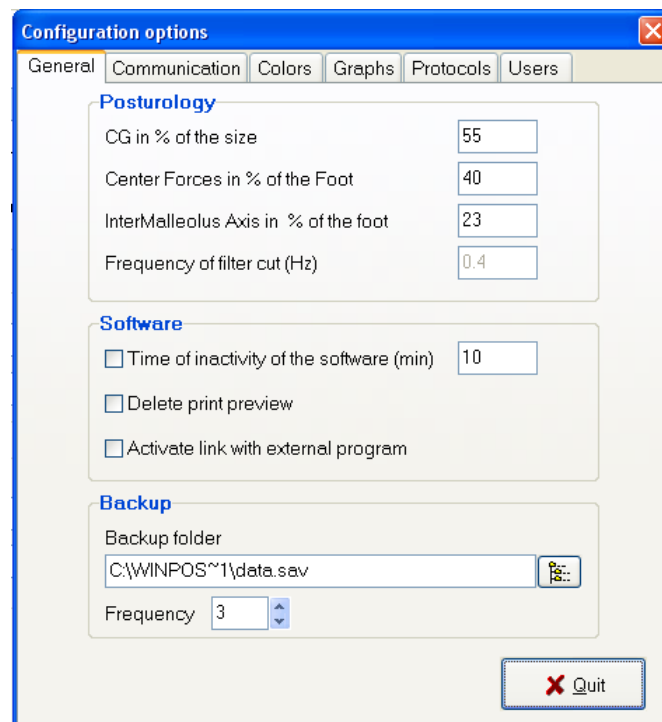
Menu bar

"Configuration" menu

Parameters

The Parameters window displays multiple tabs:

- "General" tab allows user to modify the following parameters :



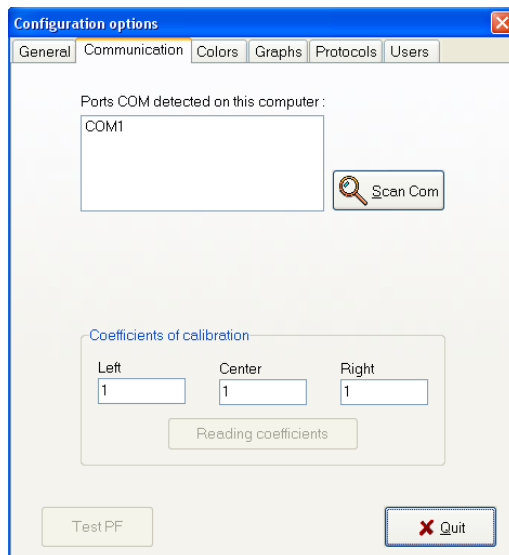
- **Posturology** : modify referential of stabilometry measurements.
- **Inactive Software Delay** : Set the length of time before the software goes into stand by mode. The password will be required to enter the software afterwards.
- **Print preview**: active or inactive.
- **Activate connection with external software** : allow to exchange patient information and recorded data between "WINPOSTURE NV" users and other software (example : RM computer).
- **Saving** : allows to define a saving filling system, to create filing structure for patients files and the frequency of performing the saving procedures (number of times the user has exited the software).

Menu bar

"Configuration" menu

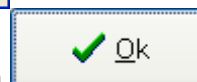
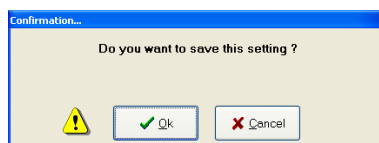
Parameters

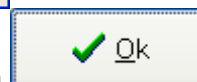
- "Communication" Tab



Verifying the platform is properly powered and connected to computer.

- **Scan Com:** allows setting the connection between the Computer and the platform.
If a error message appears upon launching the software: « Postural Platform not detected or out of service », click on "**Scan Com**" to establish the connection between the computer and the platform.



Then save this configuration by clicking on .

NOTICE: "Scan Com" needs to be performed each time there is a change of configuration between the platform and the computer.

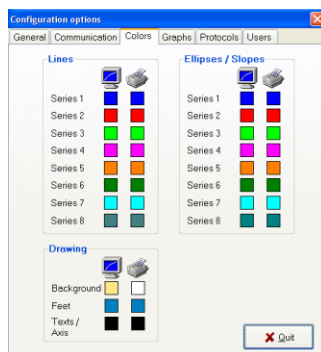
- **Calibration Ratios:** calibration of the captors after platform initialization.
In case your platform has been sent for repair to our labs, the calibration ratios need to be reset by clicking on "**Ration Reading.**"
- **Test without load:** allows testing the platform without any weight (performed only for system maintenance).

Menu bar

"Configuration" menu

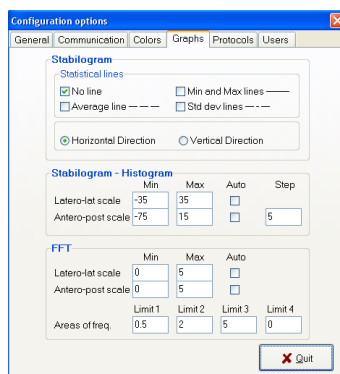
Parameters

- The « **Colors** » tab allows to define the color selected by the user for the software and for printing :



To modify a color selection, click on the color to modify, then a full color selection appears on the screen; Click on the desired color and then validate.

- The "**Graphs**" tab allows visualizing the graphs parameters and defining the parameters and graphs to be displayed on the software.



➤ **Stabilogram** :

- Statistical Lines: allows visualizing or erasing selected statistical lines.
- Horizontal or vertical: position of the graphs.

➤ **Stabilogramm / Histogramm / FFT**: The user can select the scales minimal and maximal values for 3 types of graphs. If the "Auto" mode is selected, the software will automatically select a scale to allow maximum resolution.

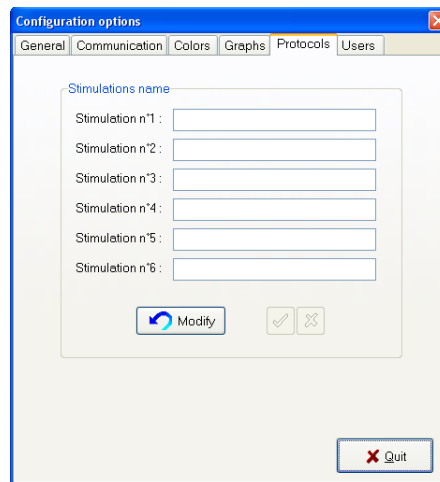
➤ **Frequency Range** : Establish parameters for minimum and maximum values in the energy distribution tables (see page 39).

Menu bar

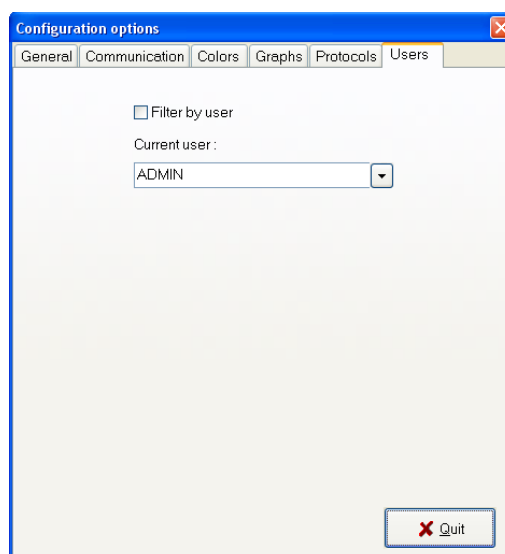
"Configuration" menu

Parameters

- The "**Protocols**" tab allows describing the stimulations used for each protocol. This option allows adapting existing protocols and creating protocols according to your personal preferences and practice.
Note: only 6 stimulations are allowed.



- The «**Users**» tab allows limited access to patients files according to the user (group practice, doctor, assistant...): select the box if you want a particular user to access and view only patients files related to this particular user.



Menu bar

"Configuration" menu

Clinic Information

Allows entering the address, information and logo of the clinic, which will appear on printed material.

This procedure needs to be done during the first session on the software.

Identification of medical office	
Name	Doctor Mike PASTEUR
Address	6 th Kensington road 33 000 BORDEAUX
Tel / Fax	01 45 46 11 45
E-mail	mikepasteur@yahoo.fr
Web site	www.mikepasteurposturo.co.uk

Change Logo

Any Logo

Access and Passwords

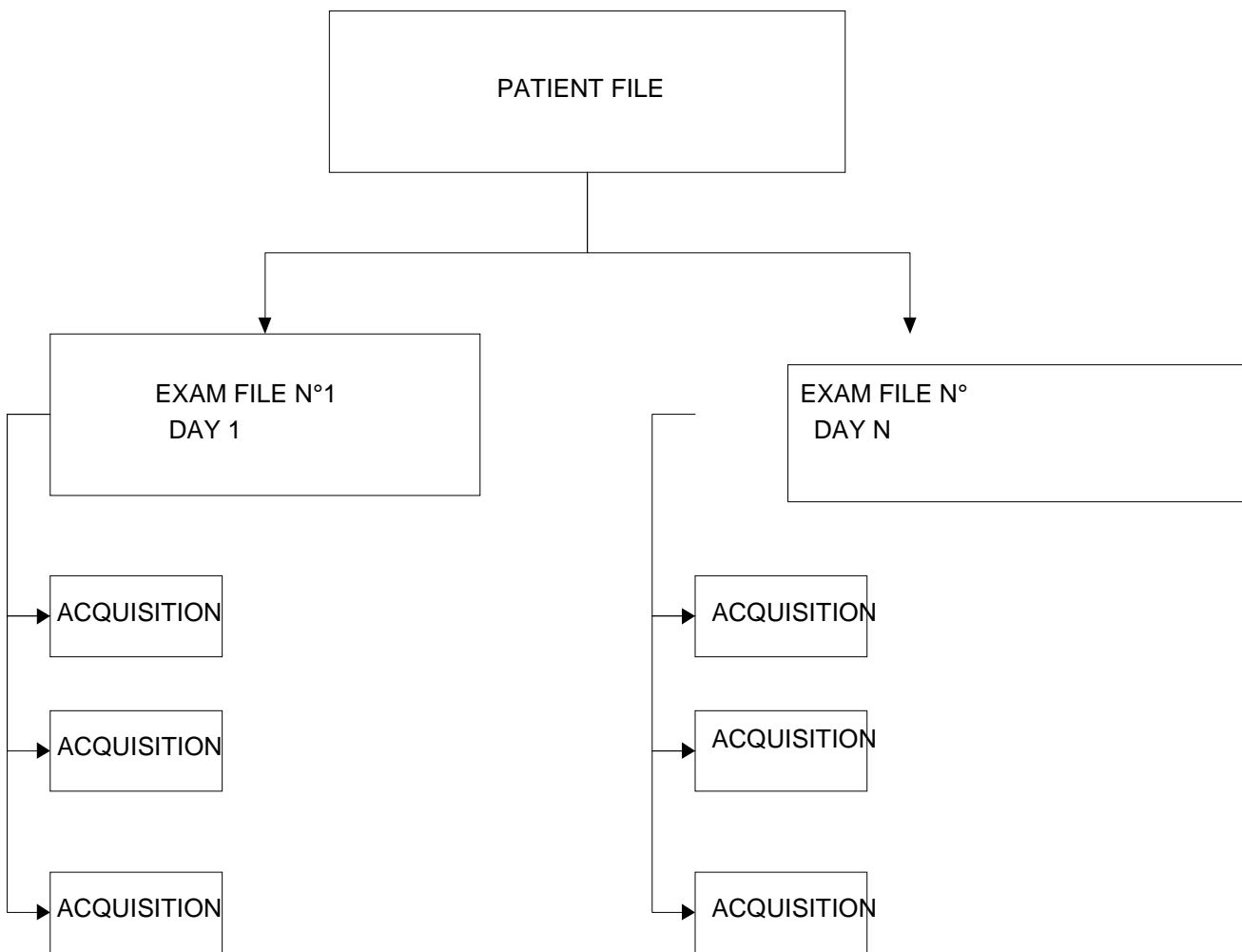
Only the administrator of the software can access this option. This window allows entering the name of the practitioner using the system and registering a password for each practitioner.

This option allows multiple practitioners to utilize the same system (group practice). This option has to be selected during the first session on the software or for each change of user.

Language

Click on the selected language, the software will automatically translate to that particular language.

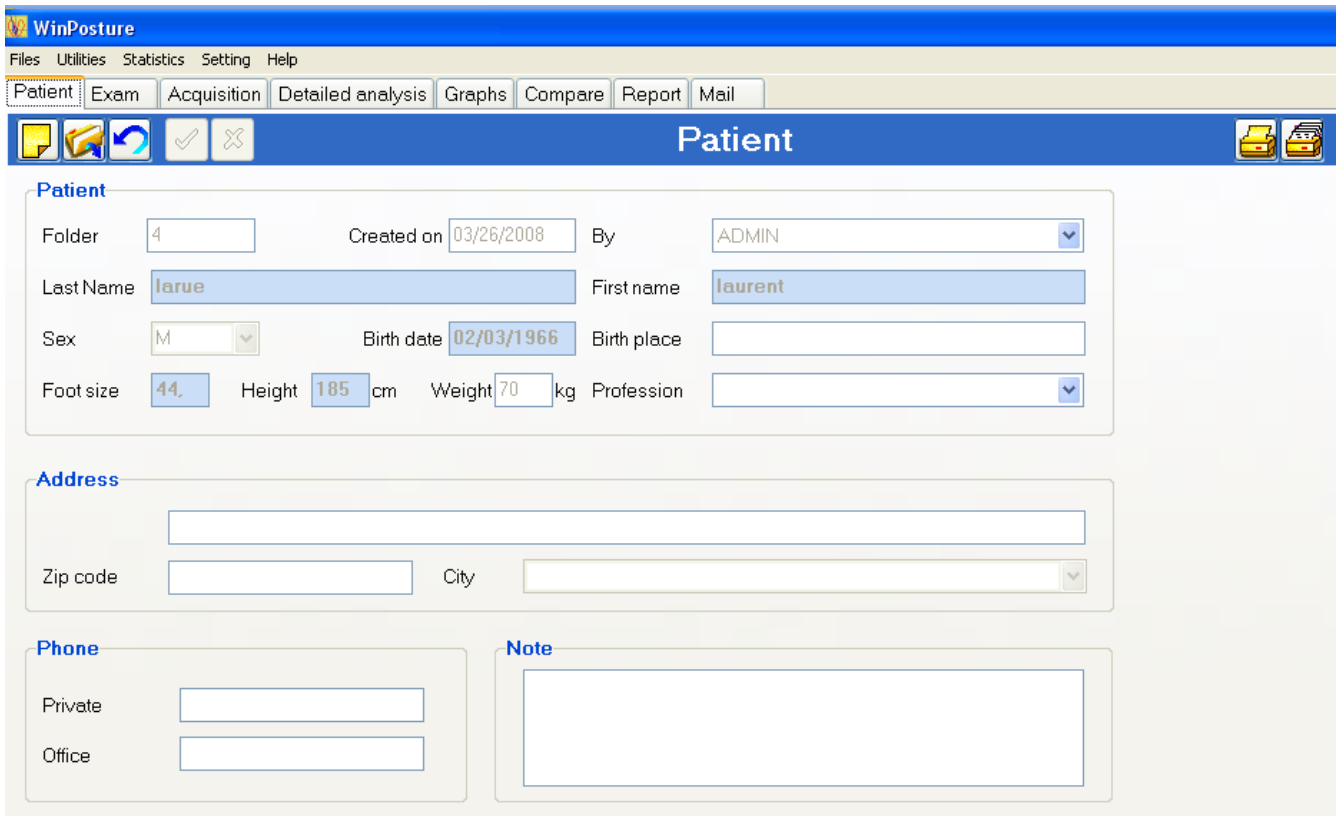
Patient visit flow chart



An assessment includes the following phases:

- 1) Information from the **Patient File** and patient's measurements.
- 2) Information from the **Exam File** related to the type of exam and the patient's pathology or direct access to the **Acquisition phase** (a « blank » exam file is created automatically).
- 3) Selecting the exam type and launching acquisition.
- 4) **Analyzing** measurements.
- 5) Creating **Report** and/or **Mailing** edited documents.

"Patient" tab



WinPosture
Files Utilities Statistics Setting Help

Patient Exam Acquisition Detailed analysis Graphs Compare Report Mail

Patient

Patient

Folder: 4 Created on: 03/26/2008 By: ADMIN

Last Name: laurie First name: laurent

Sex: M Birth date: 02/03/1966 Birth place: [empty]

Foot size: 44 Height: 185 cm Weight: 70 kg Profession: [empty]

Address

Address: [empty]

Zip code: [empty] City: [empty]

Phone

Private: [empty]

Office: [empty]

Note

Note: [empty]

Tools bar



New: Creating a new patient file.



Search: Search the database for an existing patient file.



Modify: Modify an existing patient file.



Validate.



Cancel.



Print a patient file.






Print the entire patients listing.




Permanently delete a patient file and all measurements

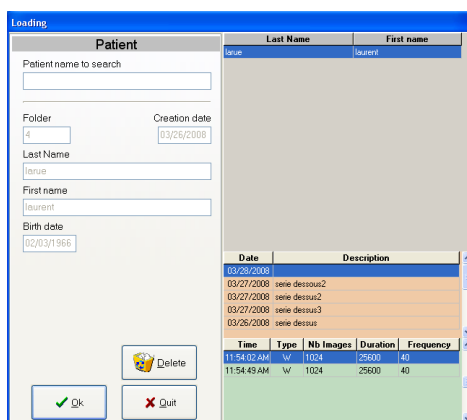
"Patient" tab

Creating a new patient file

- ✓ Select .
- ✓ Enter patient data:
Mandatory information fields will appear in blue: name, First Name, Birth Date, Foot Size, Weight and Height.
- ✓ Use Pre-defined list (see « Files » menu) for the fields where a down arrow key is present  "Gender" and "Profession".
- ✓ Once the patient file is completed, click on .

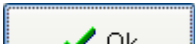
Searching for an existing patient file

- ✓ Click on  to access the patient list :





Date	Description
03/26/2008	
03/27/2008	serie desous2
03/27/2008	serie desous2
03/27/2008	serie desous3
03/26/2008	serie desous

Time	Type	Nb Images	Duration	Frequency
11:54:02 AM	W	1024	25600	40
11:54:49 AM	W	1024	25600	40

- ✓ Type the first letters of the name in the field «Patient name to search »
- ✓ Click on  or double-click directly on the patient's name.

Modifying an existing patient file

- ✓ Click on .
- ✓ Modify the concerned fields.
- ✓ Click on  to validate changes.

"Exam" tab

An exam file consists of a series of acquisitions for a given patient, **on a given date**.







For each new assessment on that particular patient, a new exam file will be created. You can move directly from « Patient » tab to « Acquisition » tab, the software will automatically create a new exam.

You can enter information in the areas of the « Exam » tab before or after the acquisitions.

An exam can include multiple measurements (acquisitions).

The screenshot shows the WinPosture software interface with the 'Exam' tab selected. The interface includes a menu bar (Files, Utilities, Statistics, Setting, Help) and a toolbar with icons for New, Search, Modify, Validate, Cancel, and Delete. The main area is divided into sections: Patient (Last Name: laurie, First name: laurent), Exam (Created on: 03/28/2008, By: ADMIN, Description, Complaint), Correspondent (Note, Date, Sent by), Acquisition (Child/Adult radio buttons, Height (cm): 185, Foot size: 44), and a Note field.

Tool bar

-  New : Creation of a new exam file.
-  Search : Search for an existing exam file.
-  Modify : Modify an existing exam file.
-  Validate
-  Cancel.
-  Permanently delete an exam file and all associated measures.

"Exam" tab

Tools bar



View and print previous exam notes to facilitate patient care. Do not forget to fill in "Title" area and the **exam notes** if you desire to see patient notes history throughout care.

Preceded exams		
Last Name	First name	Birth date
larue	laurent	02/03/1966
Date	03/20/2008	Description
Date	03/27/2008	Description
		serie dessus2
Date	03/27/2008	Description
		serie dessus2
Date	03/27/2008	Description
		serie dessus3

Creating a new exam

- ✓ For an existing patient, click on
- ✓ Complete the different sections.
- ✓ Validate by clicking on

Searching for an existing exam

- ✓ Click on
- ✓ Click on or double-click directly on the exam.

Note : You can only modify measurements in an existing exam on the date of the exam. Later on, you have to create a new exam file.

Modifying an exam file

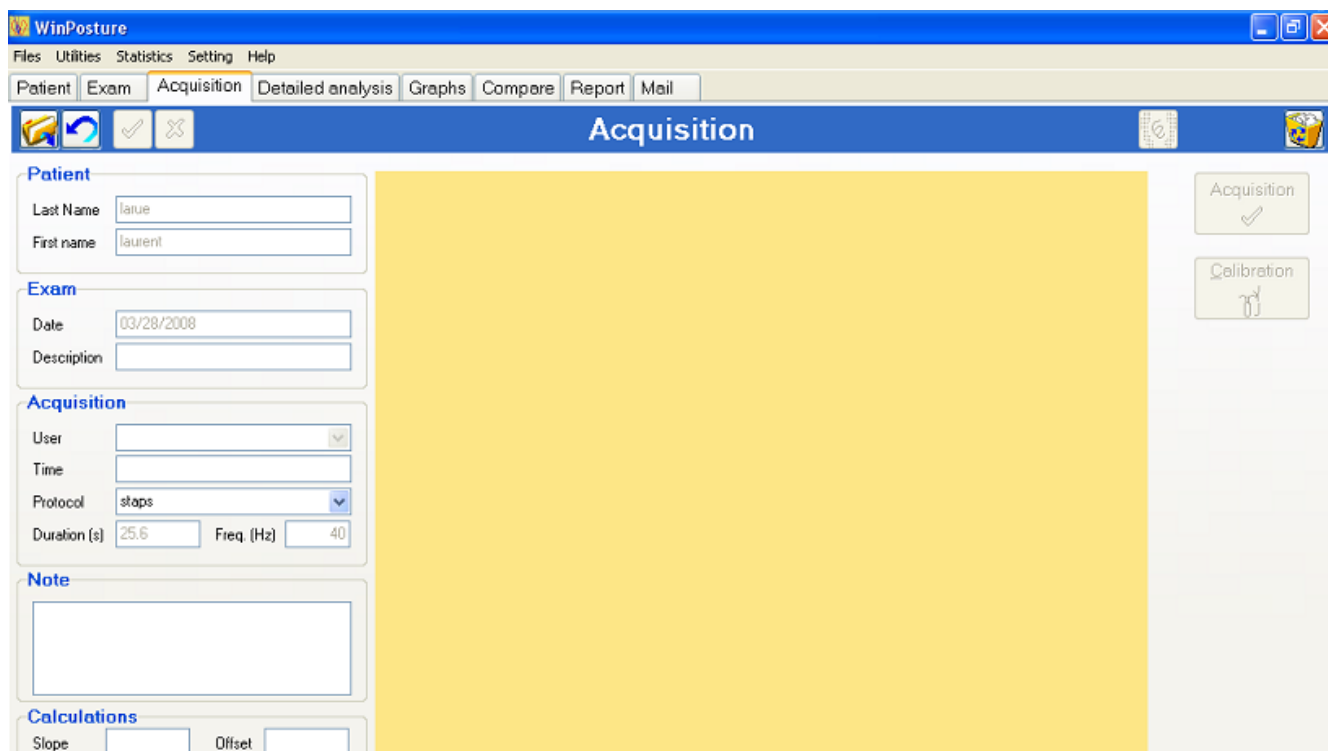
- ✓ Click on
- ✓ Modify the different sections you selected.
- ✓ Click on to validate changes.

"Acquisition" tab

An acquisition is a recording of stabilometry data on the computer's hard drive (movements of the Center of Pressure) according to an established protocol (refer to page 16, section on creating a protocol).

Within a particular exam, multiple acquisitions can be performed.

Note : Clinical comments related to the acquisition can be entered in the "Measurement Notes" section.



"Acquisition" tab

Tools bar



Search: Searching for previous recordings.



Modify: Modify an existing measurements file.



Validate.



Cancel.





Permanently delete a measurement.

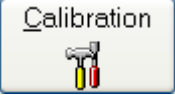


Display the Center of Pressure movement in real time (live). This function is helpful to verify the proper connection between the platform and computer or to look at the COP displacement without saving the data.

Important : This button does not accelerate the acquisition mode.

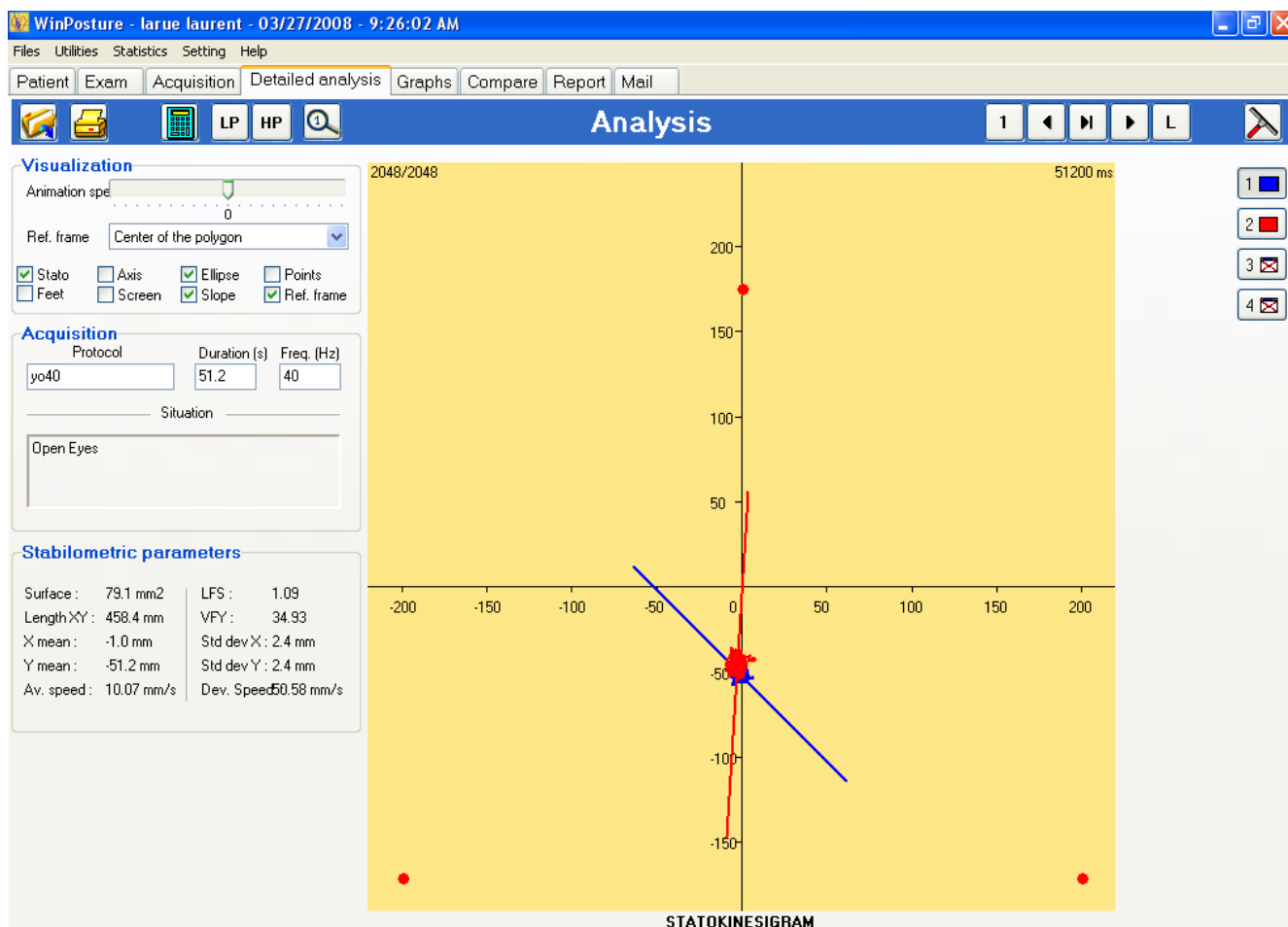
Performing a measurement (Acquisition)

- ✓ Select a **protocol** by clicking on .
- ✓ Position the patient on the platform (as vindicated in the Installation Manual).
- ✓ Click on .
- ✓ Follow the software instructions applying testing different protocols to the patient.

Note : if you use a dynamic board, click on  to reset the software with or without board before each new type of acquisition.

Once acquisition is finished, you can perform another acquisition or select another software function.

" Detailed Analysis" tab



Tools bar



Search: Search the database to load acquisition data.



Print.



Display Stabilometry Parameters numeric values.



Low Frequency Filter Selection.



High Frequency Filter Selection.



Return to normal 1: 1 ratio.

" Detailed Analysis" tab

Tools bar



Start or stop the progression of the Center of Pressure during the recording.



In the stop mode, this function allows an image per image progression (backward or forward).



Display the first image of the recording.



Display the entire stabilogram (Global Image).





Erase the active recording from the screen (not from the records).

Short cut : by selecting "Ctrl" + this tool icon allows to erase all the recording displayed on the screen at that time.



These keys allow managing the measurements loaded on the screen. **Up to 8 recording can be loaded.**

- By pointing at these icons, info related to the measurements appear indicating patient last names, first name, date, and time of the recording.
- The select key indicates the active measurement of which the postural parameters are displayed in the « detailed analysis » tab.
- To remove a measurement from the screen (without erasing it from the software), right click on the key. An X will appear on the key  instead of . Repeat the same procedure to display the recording on the screen.

" Detailed Analysis" tab

Display tools

- **Animation** : By moving the mouse you can adjust the speed of the progression of the recorded images.
- **Frame of Reference** : Allows to display and to change the **frame of reference** in which the statokinesigram is depicted.

4 frames of reference can be utilized for stabilometry analysis:

- The **center of the triangle** formed by the 3 force gauges of the platform.
 - The **center of statistical forces**, which is a statistical definition of the normal positioning of the center of forces recorded on 18 normal subjects (Schieppati et al. 1994).
 - The **inter-maleoli axis which represent the axis between the ankles**.
 - The **center of gravity of the polygon** of sustentation, which is the geometrical figure displaying the region of the plantar surface on the platform.
- **Stato** : Displays the **statokinesigram**, in a frame of reference where the origin of the Y axis (Antero-Posterior) is the center of the polygon (of sustentation). This frame of reference is recommended by the Posture and Balance Association (Association Posture Equilibre previously known as the French Association of Posturology).
 - **Feet** : Displays a representation of the feet positions.
 - **Ellipse** : Display the **ellipse of confidence at 90%** (which is the base for the calculation of the normalized stabilometry parameter of « **Surface** »).
 - **Incline** : Displays the General Axis of the preferred oscillations of the Center of Pressure.
 - **Points** : Displays the successive positions of the **center of pressure** (instead of the curve).
 - **Grid** : Display a grid.

"Detailed Analysis" tab

Zoom

One or multiple zooms can be performed on the **oscillograms**.

To zoom on a specific area:


- ✓ Position the mouse on the upper left corner of the area to zoom on.
- ✓ Click and maintain pressure on the mouse key while moving the mouse diagonally to the lower right corner of the area to zoom on.
- ✓ Adjust the size of the box in which the graph or part of the graph to zoom on is located and then release the mouse key.

To return to the original size, click on .

Postural parameters

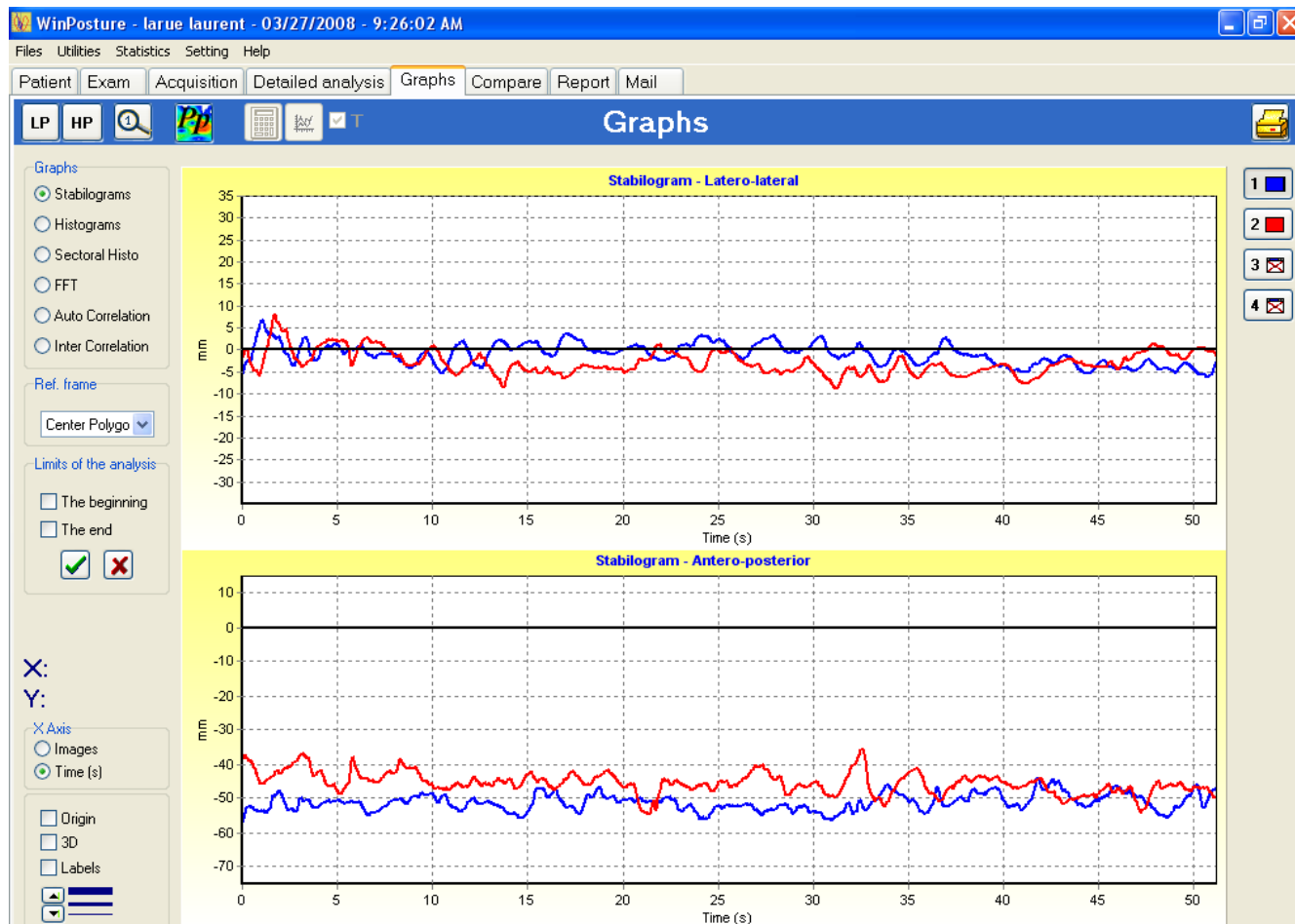
- **Surface** of the ellipse of confidence at 90%.
- **Length** of the statokinesigram.
- **Average Position X** of the Center of Pressure (COP) upon the Left-Right axis (X).
- **Average Position Y** of the COP upon the Antero-Posterior Axis (Y).
- **Standard deviation** upon X or Y measures the dispersion of the COP in comparison its average position. From a statistical standpoint, 68% of the des oscillations of the COP have amplitude between +1 and -1 standard deviation; and 95% of the oscillations are between +2 and -2 standard deviations.
- **LFS** : Length per Surface Ratio (relates to the energy spent by the body to stay in upright position).
- **VFY** : Variance of the speed of displacements along the Y positioning of the COP.
- **Ave. Speed** : Average speed of the displacement of the COP.
- **Speed Var.** : Variance of the speed of the displacement of the COP.

When normative data are defined for specific exams, the parameters out of the normative data appear in red.






To access a **complete report** of the stabilometry results, click on .

"Graphs" tab

The assessment of the COP is performed from 6 graphs displaying the progression of the COP parameters along the Left-Right axis (X) and the Antero-Posterior axis (Y) during the recording.




Tools bar

-  Applying a Low Frequency Filter.
-  Applying a High Frequency Filter.
-  Return to 1 : 1 scale. Zooming on a graph is performed by opening a rectangle with the mouse on the area to enlarge. This key allows returning to the original image.
-  Link to an optional software: "Posturo Pro" (wave analysis, fractals, diffusion analysis, for further information, please contact our office directly).
-  Graphs Printing.


"Graphs" tab


Graphs display options

- **Frame of Reference** : Allow to change the frame of reference (see page 34).
- **3D** : Display graphs in 3 dimensions.
- **Labels** : Display values on each image of the graph (to be used in conjunction with zooming to facilitate reading the values).
-  : Allow to modify the thickness of the graphs.
- **X, Y** : Cartesian coordinates of the point on the graph selected with the mouse.

Focused Analysis

On stabilograms, it is possible to define a particular portion of the acquisition.

- ✓ Click on the box " **Define starting point**" and click on the graph where you want the focused analysis to start.
- ✓ Click on the box " **Define the finish point**" and click on the graph where you want the focused analysis to end.
- ✓ Validate the focused area by clicking on . All calculations and graphs will be updated to analyze this focused area.

Note 1 : Click on  to return to the original acquisition. The focused analysis study is not saved and the original acquisition is intact.

Note 2 : You can choose to select only the starting point or only the finish point.

"Graphs" tab

Graph selection

Click on the graph to be selected:

- **Stabilograms** : these graphs display the displacement of the Center of Pressure (COP) during the recording along the Left-Right Axis (X) or the Antero-Posterior Axis (Y).
The portion of the graph located above the reference axis represents a forward displacement of the COP (Y) or a right displacement of the COP (X), and the portion of the graph located below the reference axis represents a posterior displacement of the COP (Y) or a left displacement of the COP (X).
 - On the **Abscissa Axis**: "Images" or "Time" (in seconds) can be selected to be displayed on this axis.
 - By checking "**Origin**", a horizontal line is displayed indicating the position of the origin.
- **Histograms** : these graphs display the evolution of the displacement of the Center of Pressure (COP) along one of the axis X and Y (in terms of absolute positioning in relation to the center of the referential axis, click **Abs**" or in relation with its own average position, click "**Ave**").
- **Sectional Histo** : This particular histogram provides information on the distance and frequency of the displacements of the center of pressure in the different directions in space.
The angular resolution is 10°. Space is therefore divided in 36 sections in which the number of positions of the COP is calculated.
The length of the histogram "picks" in each section is proportional to the number of times the center of pressure has been recorded in that particular angular section.
- **FFT** : FFT or Fast Fourier Transform is a mathematical method for the analysis of the recording signal, in our particular application, it provides an analysis according to the frequencies of oscillation of the patient. The range of these frequencies is known as « Frequencies Spectrum ».
Please note that for practical reason, the FFT graphic displays a continuous curve which would indicate the presence of oscillations in the entire frequency spectrum. In reality, the spectrum is not a continuous curve because all frequencies are not present; and it would appear as spectral rays.
- **Auto Correlation** : Index of correlation in X or in Y fluctuating between -1 and +1.
- **Inter Correlation** : Index of correlation in XY fluctuating between -1 and +1.

"Graphs" tab

FFT

FFT Parameters : Activate a selection on numeric filters on the FFT graphic display.

Log Scale : Switch to logarithmic scale to better view the details in low frequencies.

Rays : Display a spectral curve of rays (non-continuous spectrum).



Display detailed calculation of FFT including the calculation of energy in selected frequency bands (see page 21).

Up to 4 FFT calculations can be compared.

Calculations FFT (Power, Hanning, LP, HP)

* : Total = on the totality of the spectrum and not sum of tapes !

Measurement 1
larue laurent - 03/27/2008 - 9:26:02 AM - 51.2s - 40Hz
Open Eyes

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	3.46	0.38	0.01	0.00	3.86
Energy (%)	89.75	9.92	0.27	0.07	100
RMS	0.23	0.02	0.00	0.00	0.04
FPM	0.18	0.69	2.76	9.14	0.24

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	3.73	0.61	0.04	0.01	4.38
Energy (%)	85.02	13.99	0.84	0.14	100
RMS	0.20	0.01	0.00	0.00	0.04
FPM	0.18	0.97	2.89	7.57	0.32

Measurement 2
larue laurent - 03/27/2008 - 9:28:11 AM - 51.2s - 40Hz
Open Eyes

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	3.77	0.41	0.01	0.01	4.21
Energy (%)	89.76	9.74	0.35	0.15	100
RMS	0.23	0.01	0.00	0.00	0.04
FPM	0.16	0.82	2.83	9.92	0.25

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	6.31	1.00	0.06	0.01	7.38
Energy (%)	85.51	13.56	0.82	0.12	100
RMS	0.31	0.03	0.00	0.00	0.06
FPM	0.28	0.86	2.92	7.46	0.39

Measurement 3
larue laurent - 03/27/2008 - 9:33:28 AM - 51.2s - 40Hz
Open Eyes

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	1.78	0.29	0.01	0.00	2.08
Energy (%)	85.84	13.73	0.34	0.09	100
RMS	0.11	0.01	0.00	0.00	0.02
FPM	0.22	0.78	2.71	9.23	0.31

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	3.71	0.45	0.02	0.00	4.18
Energy (%)	88.71	10.72	0.46	0.11	100
RMS	0.19	0.01	0.00	0.00	0.03
FPM	0.23	0.87	2.78	8.35	0.31

Measurement 4
larue laurent - 03/26/2008 - 6:39:49 PM - 51.2s - 40Hz
Open Eyes

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	7.06	0.62	0.02	0.00	7.70
Energy (%)	91.61	8.04	0.31	0.05	100
RMS	0.71	0.01	0.00	0.00	0.13
FPM	0.08	0.94	2.71	8.07	0.16

	0 - 0.5	0.5 - 2	2 - 5	5 -	Total (*)
Energy (V ² /Hz)	1.86	2.41	0.10	0.01	4.38
Energy (%)	42.40	55.09	2.28	0.23	100
RMS	0.12	0.06	0.00	0.00	0.03
FPM	0.21	0.88	2.86	8.11	0.65



Display detailed analysis of up to 4 FFT picks simultaneously.



Display energy tables on the FFT graphs.

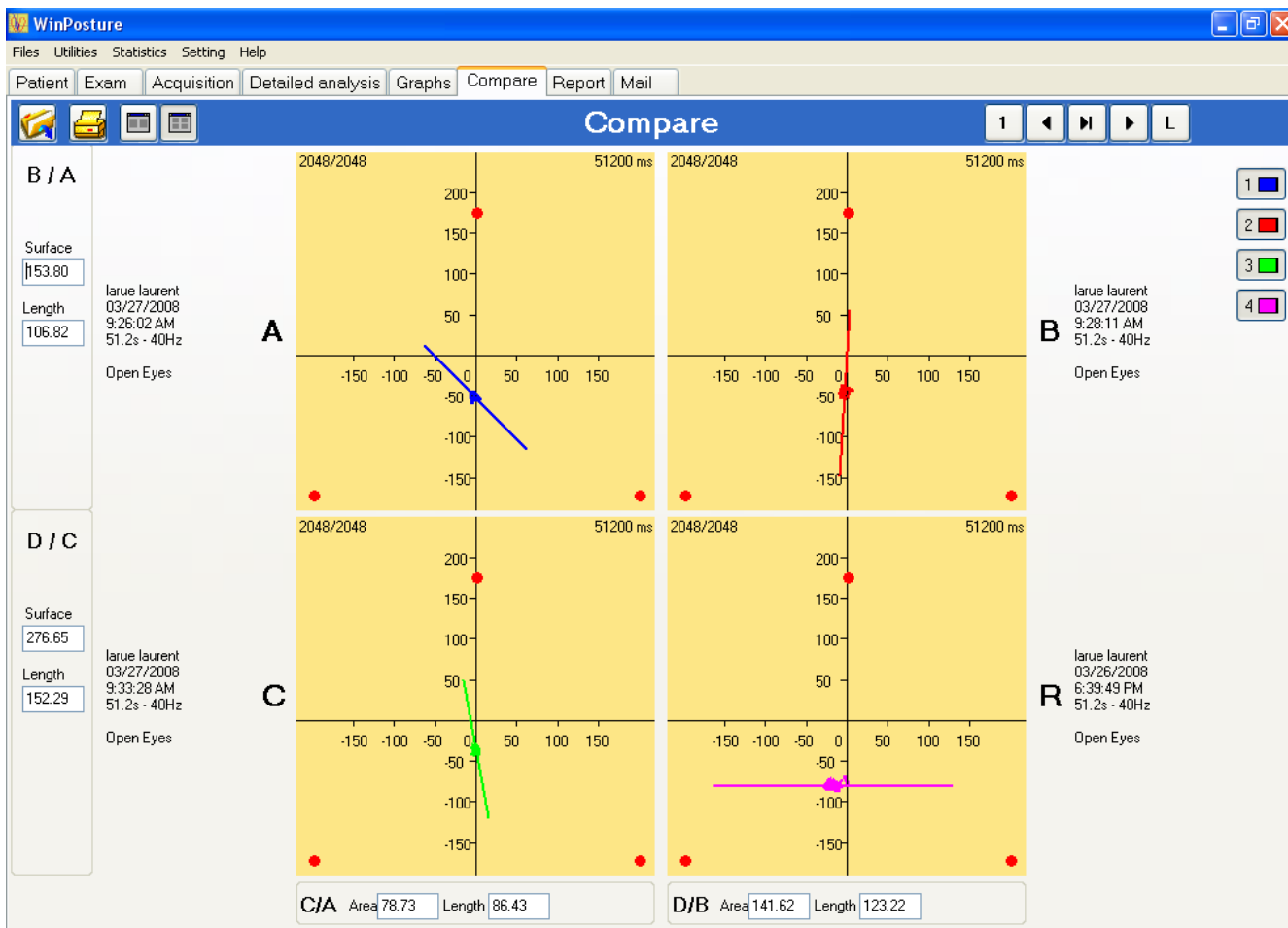
"Comparison" tab

General information

By clicking on the "Comparison" tab, up to 4 measurements can be displayed on the screen or printed.




These measurements can be from the same patient (when an assessment includes multiple testing protocols) or from different patients in order to compare pathologies or treatment outcomes.

Each box is numbered to properly view the surface or length ratios which are located on the lower right corner of the screen (the quotient of Romberg and the plantar quotient can be visualized in these boxes).



"Comparison" tab

Comparison of 2 or 4 measurements

- ✓ Click on  or  to visualize 2 or 4 measurement simultaneously.
- ✓ Load each measurement by clicking on . Select the measurement in the patient file.
- ✓ Perform the same procedure for the other measurements.



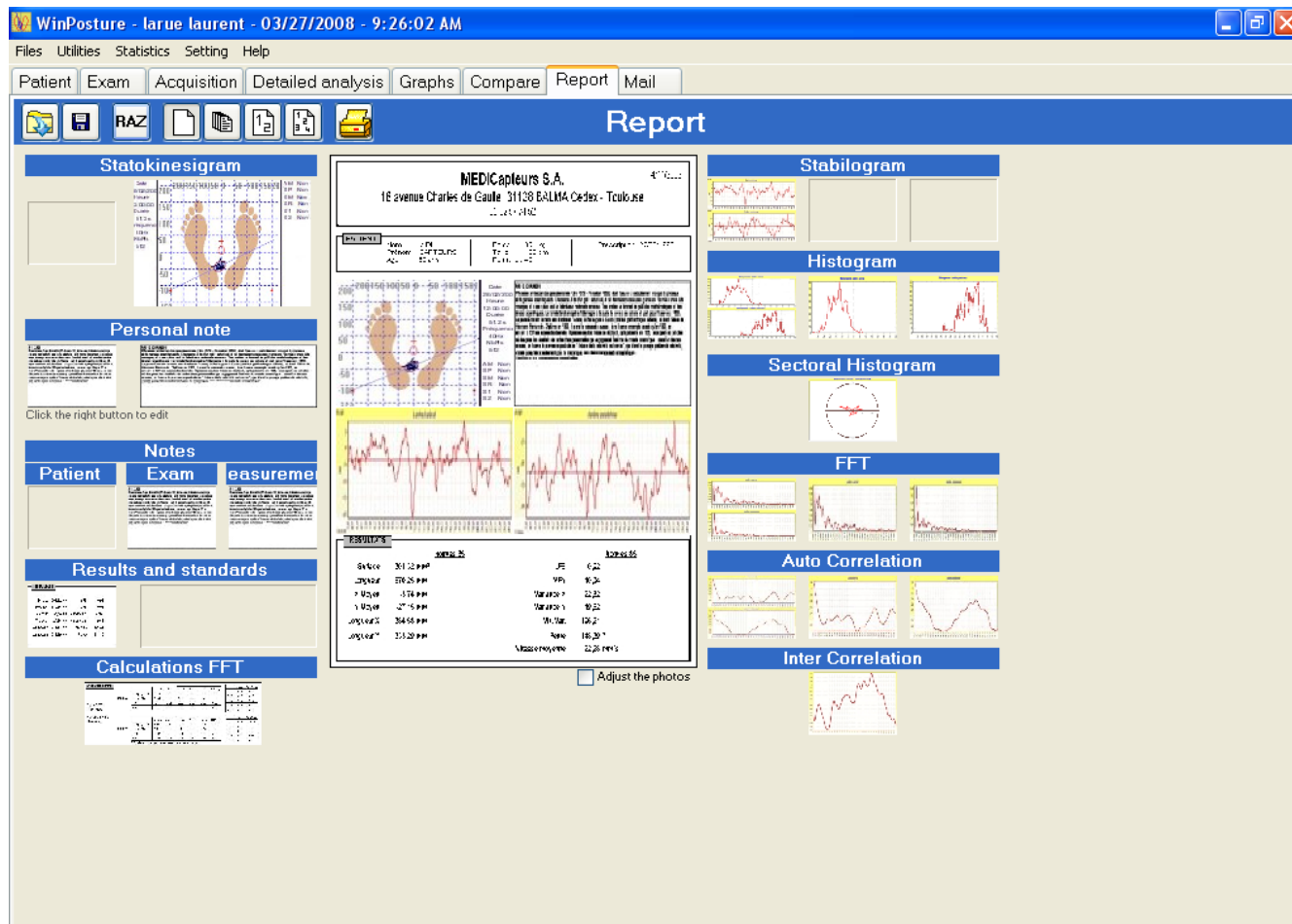
On the right side of the screen, loaded measurements can be viewed. Up to 8 measurements can be listed..



Click on these buttons one after the other to load or empty the boxes from left to right (and from top to bottom for the 4 screens option).

"Report" tab

Report As Known As "Pizza" report, this report printing display is the result of multiple developments for creating effective **personalized reports**. It facilitates the creation of a report based on multiple screens available throughout the software.



The screens that can be printed on the software (statokinesigrams, graphs, notes, etc.) are located on each side of the blank page (divided in 6 areas).

Create a personalized report by moving the selected screens on each side of the report page to the desired location on the report page. When report is completed you can print it and save it as a "model" report to use later for other measurements.

Tools bar



Print a report.



Save a model report.



Load an existing report model.



Erase the central page to make it blank.

"Report" tab

Tools bar



Print an active measurement.



Print all loaded measurements **without preview**.



Print 2 superposed measurements.



Print all superposed measurements.


Choose printing mode by clicking on  to launch printing.

Inserting a comment

- ✓ Drag and drop the "**Personal Note**" box at the desired location on the report.
- ✓ Right click on the "**Personal Note**" box and select "Edit the personal note".

The following window appears:



- ✓ Type your text message and click on  when finished.

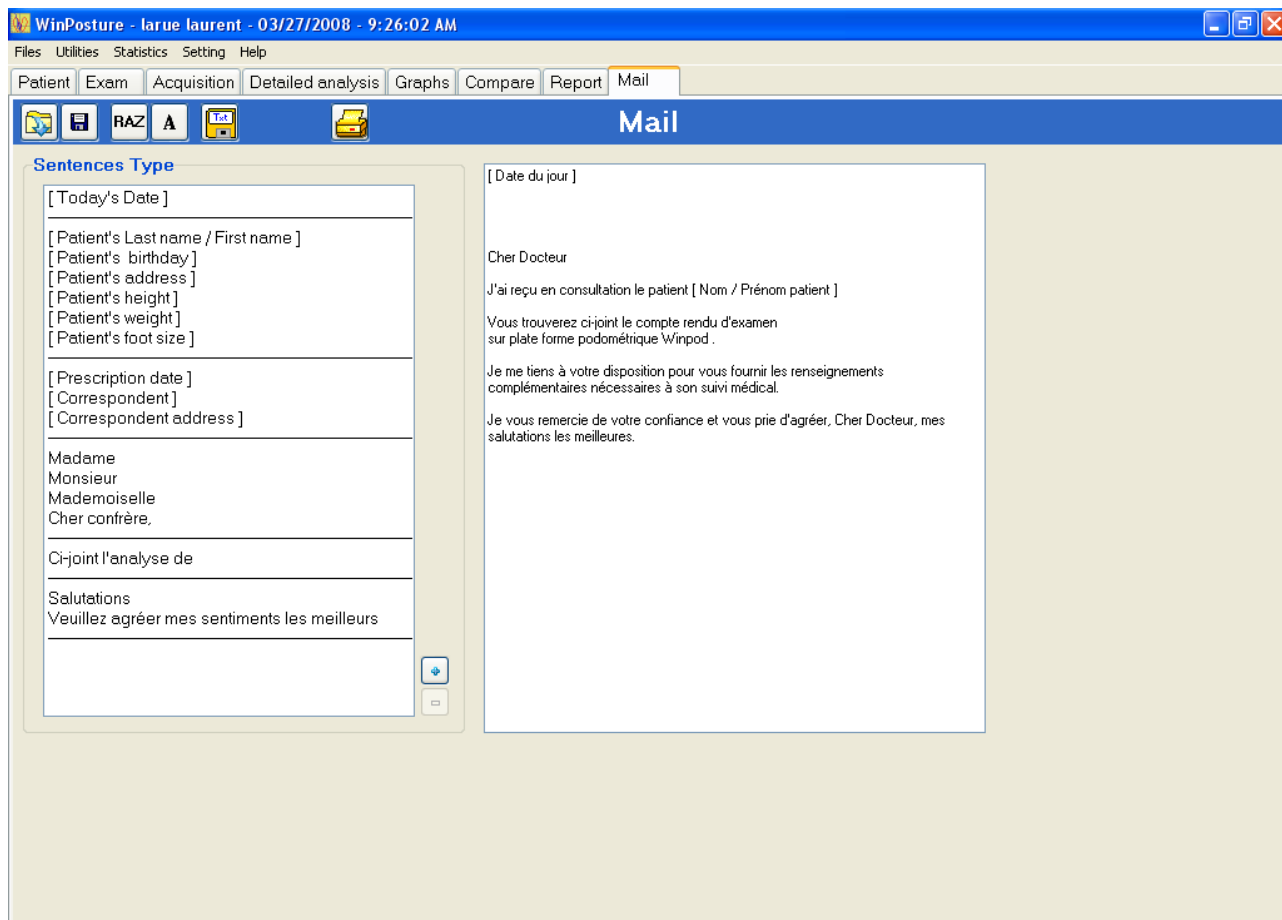
Inserting a picture


To insert a picture on a report:

- ✓ Right click on an empty section on the report then select "Load an image".
- ✓ Search for an image on your computer using your explorer then click on "Open".

"Mail" tab

Allow to generate model letters to attach with your reports.



On the left side of the screen, you have access to the information categories from the patient file and examination, and common sentences that you have generated by clicking on .

To compose your letter, type your text and then double click on the area or line you wish to include in the letter.

Tools bar



Print letter.



Save model letter.



Search for an existing model letter.



Erase the page.



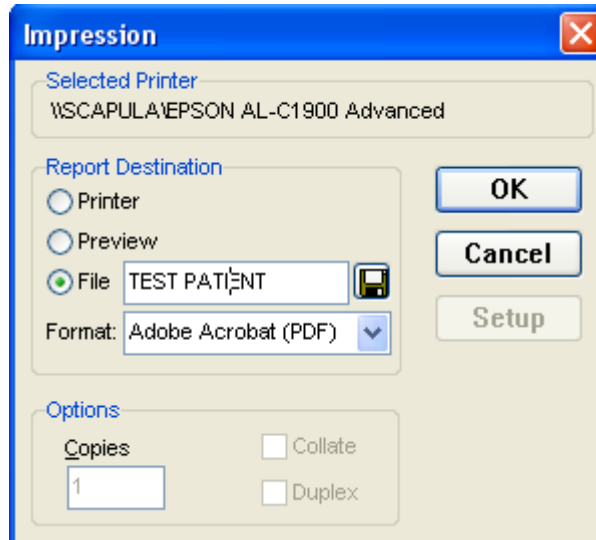
Save the letter in txt format (to export in Word).



Change the font style.


Printing

When clicking on this software icon  , the following window opens:



Multiple options are available:

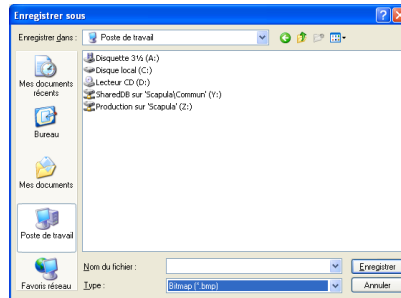
- **"Printer"** : for sending directly to the printer.
- **"Preview"** : For print preview display
- **"File"** : for saving the report to be printed on the hard drive, particularly using the PDF format.

The option is available to avoid the display of this window and printing will then be automatic each time you click on  . Go to menu *Configuration / Parameters / General* (see page 19).

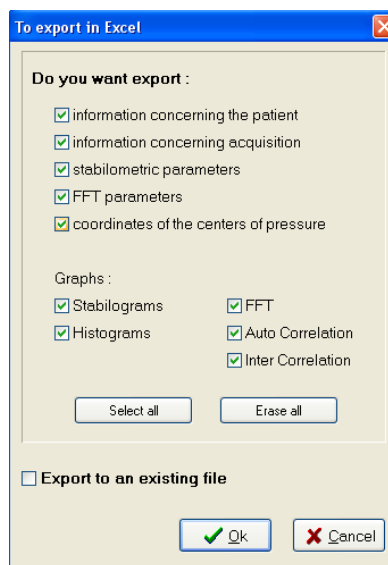
Exporting data

By right clicking with the mouse on the statokinesigram in the "Detailed Analysis" section or on a graph in "Graphs" tab the following options are available :

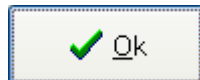
- **Copy** the selected image **to clipboard** .
- **Save on a file database** the selected image on Bitmap format. A window appears to select the name and location of the file to be created:

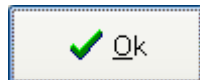


- **Exporting series of recordings to Excel**. The window appears :



- ✓ Select the information to be exported



- ✓ Click on . If you select the box "Export in an existing file" a window appears to search for a file on the computer hard drive otherwise a new excel file is opened.
- ✓ The Excel file holds multiple sheets where each type of information is presented. Save it on the hard drive.

- **Full page, other graph** or **2 graphs** (in the "Graphs" tab) allow to display graphs on a full page or to return to 2 graphs visualization.

Safeguarding the patient database

WARNING!

It is necessary to frequently backup the "WINPOSTURE NV Software" patient database which includes all patients. In fact, a technical computer dysfunction may damage, even destroy all your data which then cannot be retrieved.

One back up per week is recommended.

Patient database back up

Copy the folder C:\WinPostureNv\DATA to a back up unit, such as :

- CD or DVD writer
- ZIP Drive
- Another Hard drive
- USB Key

Reloading a saved patient database

If you are not certain of the procedure, please contact us.

Procedure to follow when installing the back up database on a new computer configuration:

- ✓ Install "WINPOSURE NV Software" following the instruction manual.
- ✓ Launch the DBManager utility function which can be accessed through **Start/All programs/ Medicapteurs**.
- ✓ In the DBManager section :
 - Click on the command "**Import a database**".
 - The following window opens "Assistant for importing a database".
 - Select your back up unit.
 - Double-click on your back up DATA folder.
 - Then click on "**Next**" and then on "**Start**".
- ✓ When the import is completed all the patients are directly integrated in the patient database of the «WINPOSTURE NV Software». You can verify that importation was successfully completed by opening the «WINPOSTURE NV Software" and then by clicking on "search" in the "Patient" tab.
Verify then the displayed list and that the associated measurements are present.

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