



UNETVIEW OPERATOR'S MANUAL

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USING UNETVIEW™

What is UnetView?

UnetView™ is a simple and easy to use Windows™ program developed by Unetixs to allow MultiLab Series 2 users to do more with the vascular studies performed on your patients.

While you can view and print your patient studies on your MultiLab vascular instrument, they will not be available to anyone who is not using the instrument. While the MultiLab's (Lab and Portable models) will allow you to back up your patient files to a floppy disk, these files cannot be accessed unless you load them back into your MultiLab.

With UnetView™, Unetixs allows you the option of Viewing, Printing and Saving your patient studies from any computer running Windows 95 or higher. You can also send these patient studies over Local or Wide Area Networks (LANS and WANS), over the Internet or send them as e-mail attachments.

File Formats

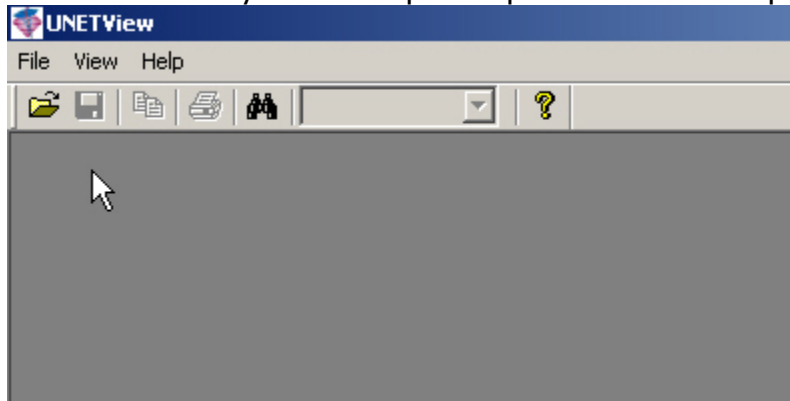
The UnetView™ program allows you to access the proprietary Unetixs .UTX files with any computer running Windows™ 95 or higher (98, 98SE, ME, Millennium, 2000, NT or XP). The advantage of the Unetixs .UTX file format is three-fold:

1. They are incredibly small – the average patient study is a mere 5K in size, meaning they will take up almost no room on your Hard Drive, Floppy Disk, CD-ROM or other storage device, and as they are so small, can easily be sent as e-mail attachments over the internet, even with slower dial-up connections.
2. Resolution – even though the file size is very small, the resolution of the .UTX file format is incredibly high. The .UTX file structure is not a compressed format, where half or more of the image information is removed to make the files more compact. Through smart engineering, Unetixs has been able to have the best of both worlds - small file size with zero loss of resolution!
3. Privacy – the UTX files are unreadable unless they are opened with the Unetixs UnetView program, assuring patient privacy.

With the UnetView™ program, you can also paste images of your patient studies into Microsoft Word™ (.doc) files that can be edited and viewed by anyone who is running this application on their computer. The UnetView program will also allow you to save patient files as Bitmap (.bmp) files that can be read by any number of image editing software programs.

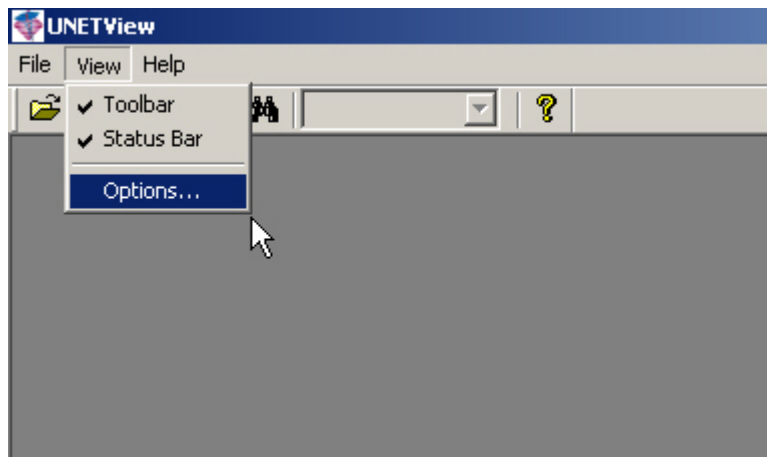
GETTING STARTED

Clicking on the UnetView™ Icon on your desktop will open the UnetView program:

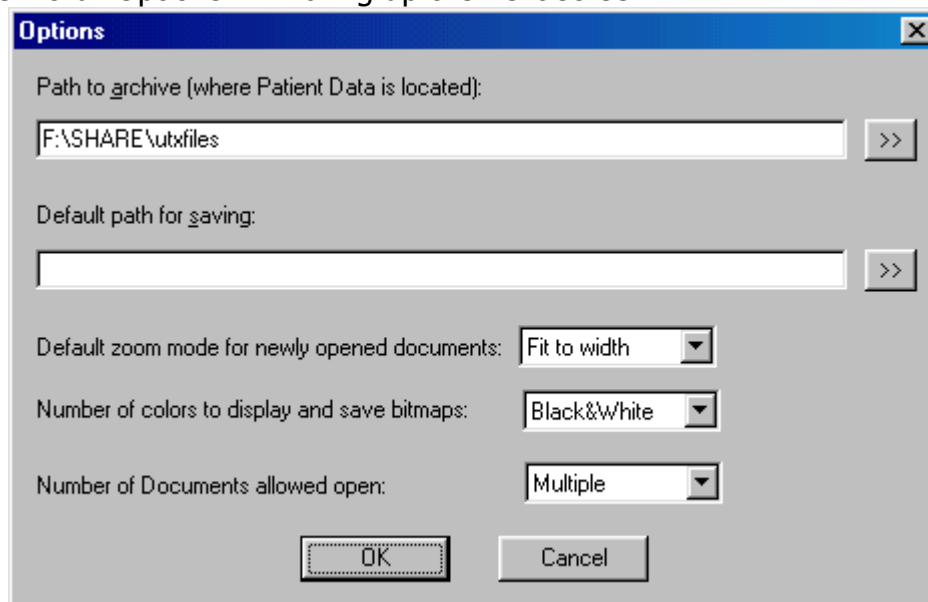


CONFIGURING THE UNETVIEW PROGRAM

Before using the UnetView program for the first time, it will be necessary to set it up for your particular application. To do this click on the word "View" on the toolbar to bring up the following screen:

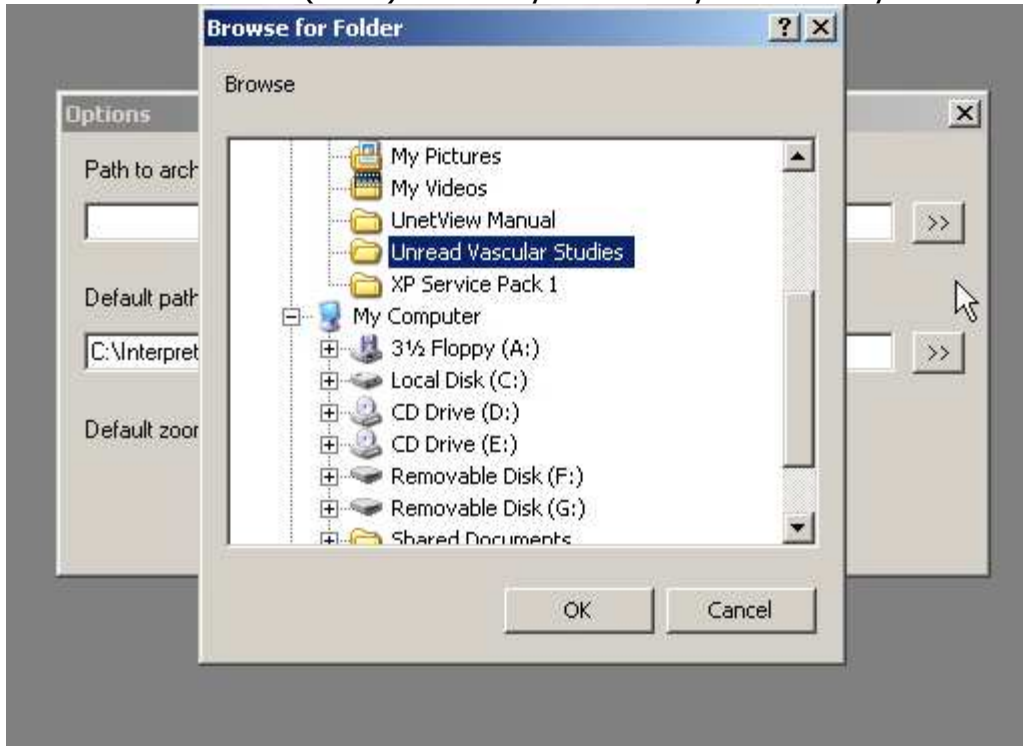


Clicking on the word "Options" will bring up the next screen:



Archive Path

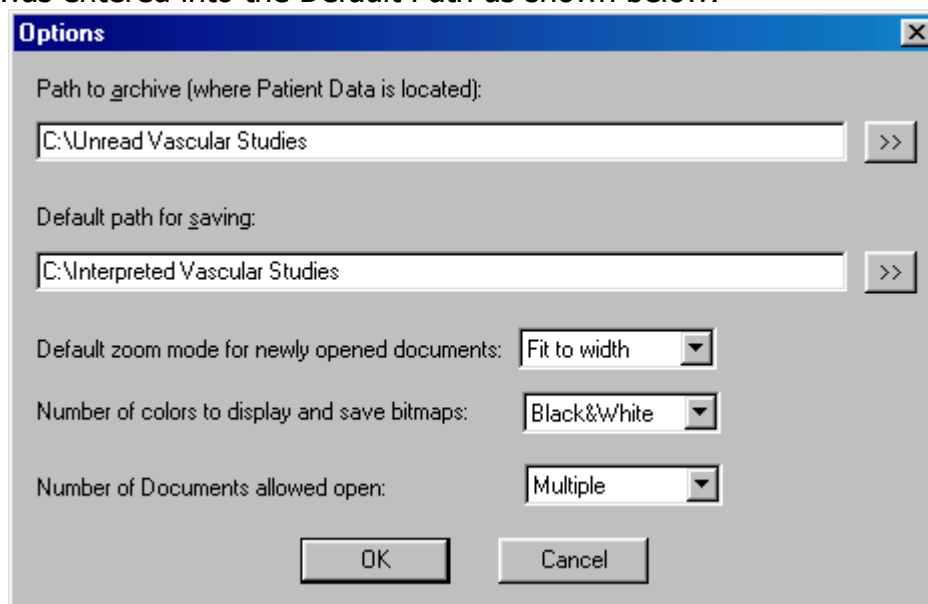
The archive Path is where the UnetView program will look for studies when you use the File "Open" or "Find" commands. You can type in the path where the patient files are located or simply use the "Browse" button (">>") to allow you search your directory tree as follows:



In the above example, a folder was created for the vascular studies that have not yet been read, named "Unread Vascular Studies".

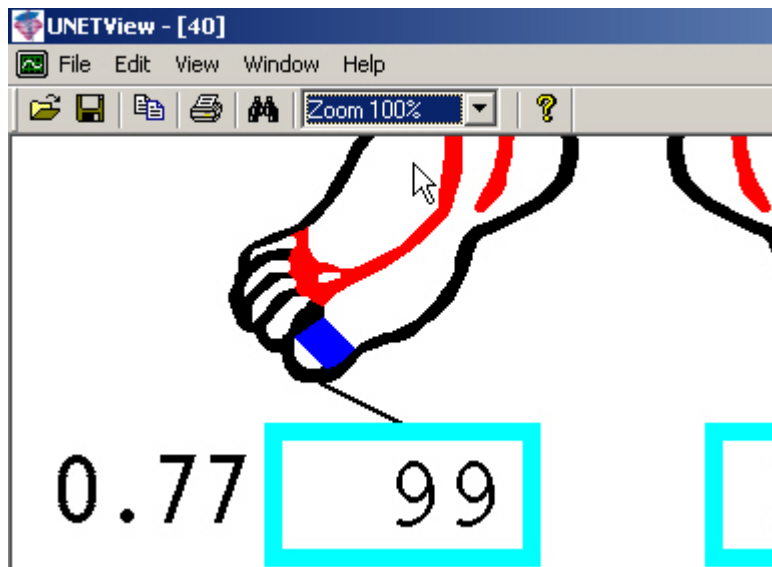
Default Path

Following the above example, another Directory titled "Interpreted Vascular Studies" was created to store the Patient Files that have been interpreted by the physician. The location of this directory was entered into the Default Path as shown below:



Default Zoom Modes

The Default Zoom Mode allows you to specify how you want the patient files to be displayed in the UnetView screen. You have several choices: **Zoom 100%**, which will show you a small part of the exam in great detail:



"Fit to Page" and "Fit to Height" will allow you to see the entire page contents on the view screen, and "Fit to Width" will show the entire width of the page, but you will need to use your mouse or trackball to scroll down the page.

Try the various views, and select that view to put in the "Default Zoom Mode" box. This will be the format the UnetView program will automatically open every file to, although you can always change the view size manually.

Number of Colors

You may set the number of colors to either "Black&White" or "Colors". Normally, full color mode should be used. Black & White mode might be used in the following circumstances:

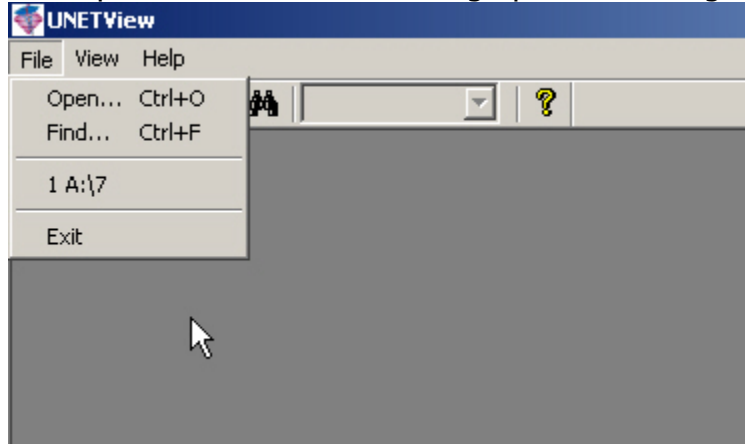
- When the destination printer is not color capable (such as a laser printer).
- To save on expensive color ink in color capable printers.
- To save on file size (25% of color size) when saving or pasting images.

Number of Documents

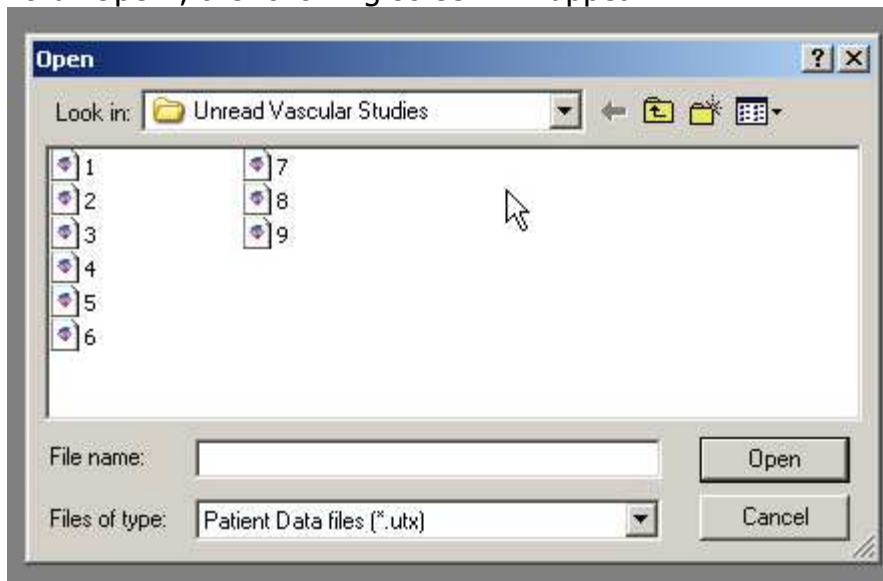
You may set the number of documents allowed open to "Single" or "Multiple". Single document mode provides for a simple user interface, while multiple document mode provides more capability for advanced users.

FINDING AND OPENING PATIENT FILES

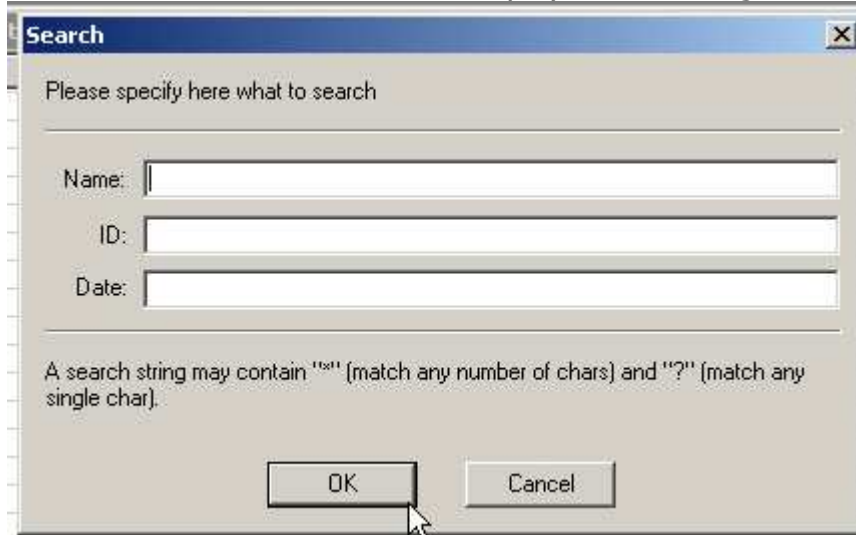
There are three ways to find and open patient files. From the UnetView Screen you can click on the word "File" at the top left of the screen to bring up the following image:



If you click the word "Open", the following screen will appear:



The UnetView program will automatically look into the directory that was specified in the Default Archive box, and display the Patient Files numerically. Clicking on any of the numbered files will display the study on the view screen. An easier and more selective approach is to use the "Find" function, which will display the following screen:



From the Search screen, you can then do a broad or narrow search. For example, if you simply click the "OK" button without entering any Patient information, or Exam date, you will do a quick lookup of all the files in the directory as follows:

File	Name	Id	Date
1.UTX	WASHINGTON, GEORGE	001-01-0001	5/08/2002 3:38 PM
2.UTX	MO 12345	BILL	10/24/2001 11:10 AM
3.UTX	BARBARA	12345	10/16/2001 11:24 AM
4.UTX	MURPHY, WILLIAM	1350943	10/24/2001 11:52 AM
5.UTX	MURPHY, WILLIAM	1350943	10/24/2001 12:02 PM
6.UTX	MURPHY, WILLIAM	1350943	10/24/2001 12:05 PM
7.UTX	MURPHY, WILLIAM	1350943	10/24/2001 12:32 PM
8.UTX	BARON, BEATRICE	1120908	10/24/2001 1:50 PM
9.UTX	BARON, BEATRICE	1120908	10/24/2001 1:57 PM

And as you might infer, typing in Patient Information (or even part of it) will yield a more selective search. For example simply typing "Wash" in the Patient Name box will bring up our friend George:

File	Name	Id	Date
1.UTX	WASHINGTON, GEORGE	001-01-0001	5/08/2002 3:38 PM

An easier way yet to view Patient files from UnetView, is to use the "Binocular" Icon on the Taskbar:



Clicking once on the Binocular Icon will bring up the "Search Box":

Please specify here what to search

Name:

ID:

Date:

A search string may contain "*" (match any number of chars) and "?" (match any single char).

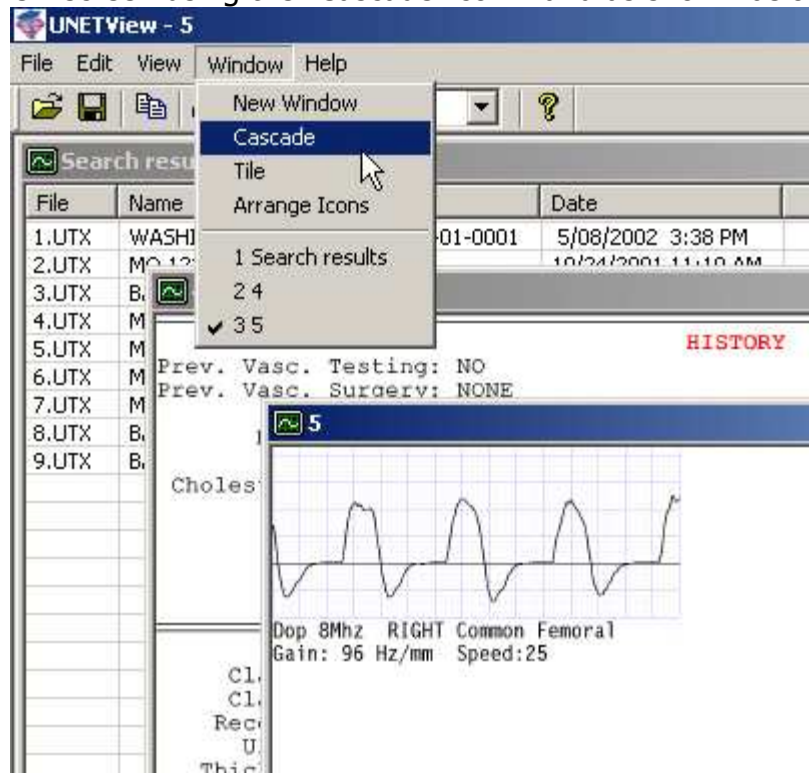
OK Cancel

Follow directions from previous page to perform broad or specific searches.

VIEWING MULTIPLE REPORTS

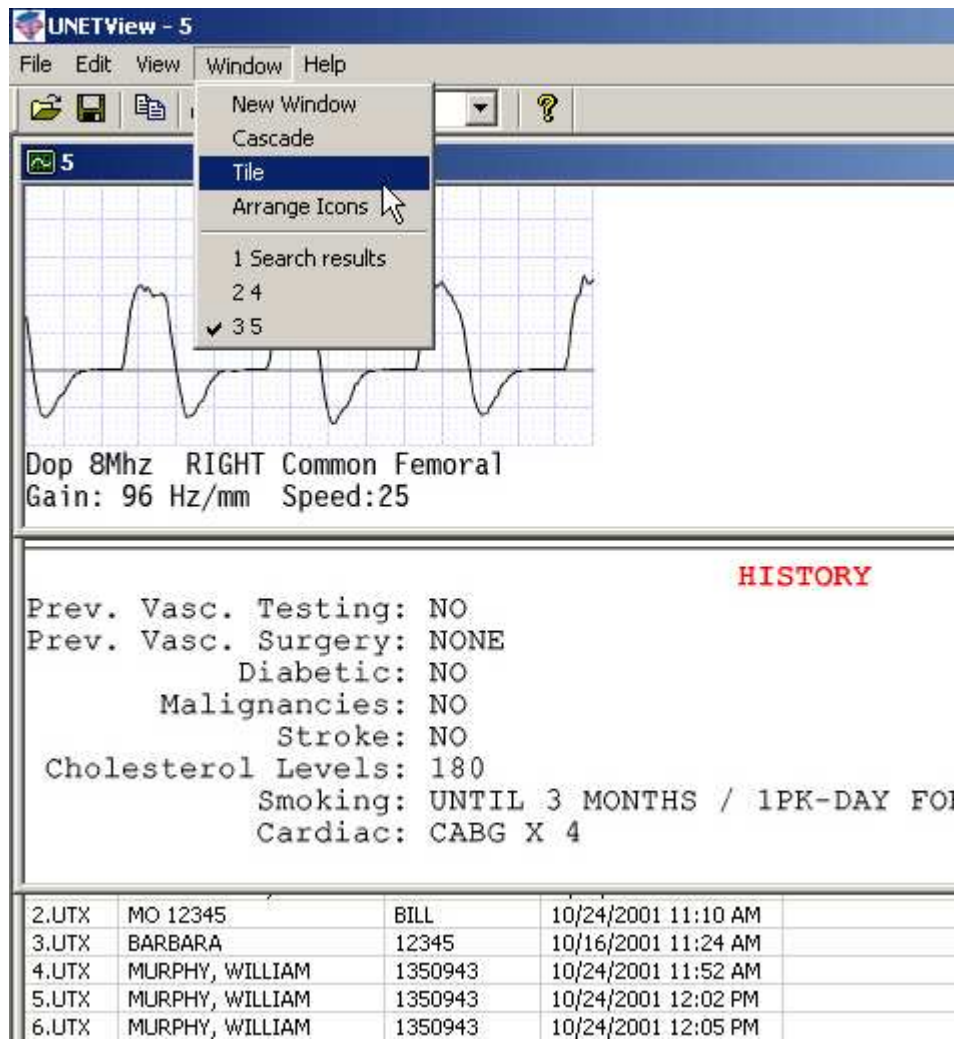
Cascade Format

Using the “Window” command on the UnetView toolbar, it is possible to view multiple reports in the same UnetView screen using the “Cascade” command as shown below:



We can switch between Patient History Pages, Patient Reports and the Master Lookup log without having to close any windows. This makes it much easier to interpret a multi-page patient report. We can also use the Window “Tile” command to view multiple reports as shown on the next page:

Tile Format



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File Edit View Window Help

New Window
Cascade
Tile
Arrange Icons

1 Search results
24
✓ 35

Dop 8Mhz RIGHT Common Femoral
Gain: 96 Hz/mm Speed:25

HISTORY

Prev. Vasc. Testing: NO
Prev. Vasc. Surgery: NONE
Diabetic: NO
Malignancies: NO
Stroke: NO
Cholesterol Levels: 180
Smoking: UNTIL 3 MONTHS / 1PK-DAY FOI
Cardiac: CABG X 4

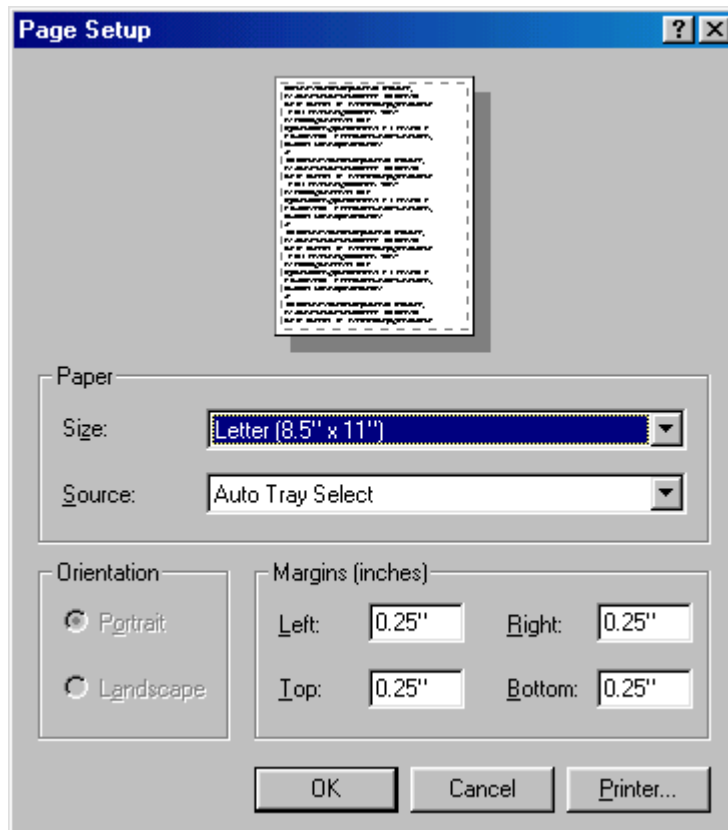
2.UTX	MO 12345	BILL	10/24/2001 11:10 AM
3.UTX	BARBARA	12345	10/16/2001 11:24 AM
4.UTX	MURPHY, WILLIAM	1350943	10/24/2001 11:52 AM
5.UTX	MURPHY, WILLIAM	1350943	10/24/2001 12:02 PM
6.UTX	MURPHY, WILLIAM	1350943	10/24/2001 12:05 PM

PRINTING PATIENT REPORTS

Once a UTX file has been opened, it may be printed to any configured Windows printer. But before printing, a one-time page setup may be necessary.

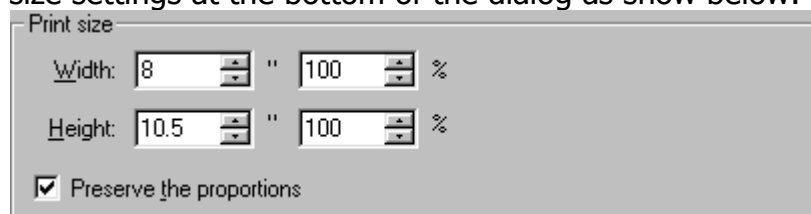
Configuring the printout size

To configure the printout size, it is required that a UTX file be opened. Once opened, click "File" in the upper left of the screen and then "Page setup" to display the following menu:



In the margins section on the lower right, set the acceptable margins for your printout and the destination printer. To find the minimum margins for the printer, enter a "0" (zero) into each margin and then press the "tab" key on your keyboard. The intended image size for the printout is 8 inches wide (from left to right) and 10½ inches tall (from top to bottom). The margins displayed in the example above would work exactly for standard letter size paper (8½ by 11 inches). Press the "OK" button to save the margins settings. These settings will be saved even if the program is closed. Note that the other settings for Paper and Orientation are NOT saved.

If your printer is not capable of printing an 8 by 10½ inch image onto an 8½ by 11 inch page, it may be necessary to scale your printout. The disadvantage to scaling is that the waveform boxes may no longer be printed in exact millimeters. To set the waveform scaling, click "File" in the upper left of the screen and then "Print..." to display the print dialog. Pay particular notice to the Print size settings at the bottom of the dialog as show below:



Reduce these settings as appropriate for your destination printer. Press "OK" to save these settings and make a test printout. These settings will be saved even if the program is closed. Note that the other settings on the print dialog are not saved.

Printing

To print, simply click "File" in the upper left of the screen, then "Print...", and then "OK". A UTX file must be opened for this operation to work. If you are configured for the multiple document mode, the highlighted image will be printed. Note that if the "Search Results" window is highlighted, this operation will not work.

SAVING AND RENAMING PATIENT FILES

Once you have viewed the Patient Files with the UnetView program, you have several options available. For many users, they may wish to do nothing at all. Others will want to rename and save their Patient files in other directories after they have been read. Still others may wish to attach the Patient study to a Word or other application that is a report generator.

If you wish to rename a patient file so that is recognizable (but unreadable) by Windows Explorer, or any number of other programs, click the word "File" and "Save" to bring up the following Dialog Box:



The "Save In" folder will automatically default to the directory specified in the Default Path in the "Options" Dialog box. You can of course save the file to any other directory you desire by clicking the Folder up and down arrows with your mouse. If you wish to rename the file, it may be helpful to assign a file name like the one above. The Patient's name is George Washington, so we may wish to rename the file WashingtonG.utx or WashingtonG.bmp.

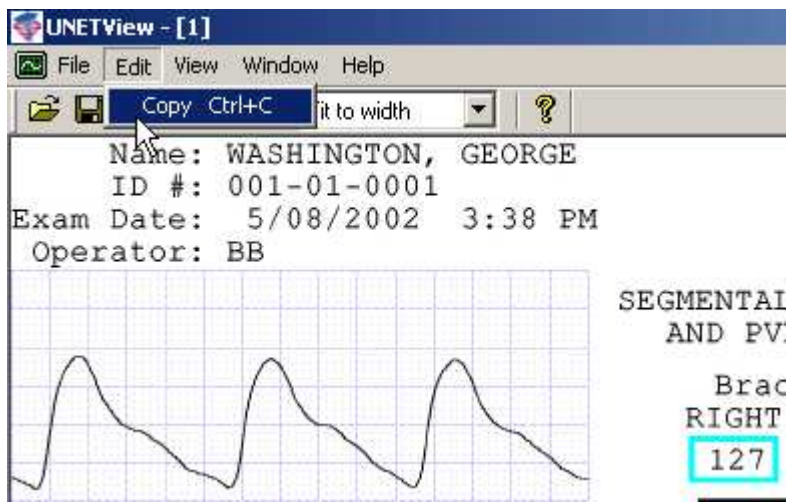
File Extensions (Save as type)

For Patient privacy and size, the .UTX file extension will be preferable to the alternative .BMP (Bitmap) format. The .BMP format, while very high in resolution, is also quite a large file format. For example, the file WashingtonG.utx will be 6KB in size versus 3,692KB for the file saved as WashingtonG.bmp.

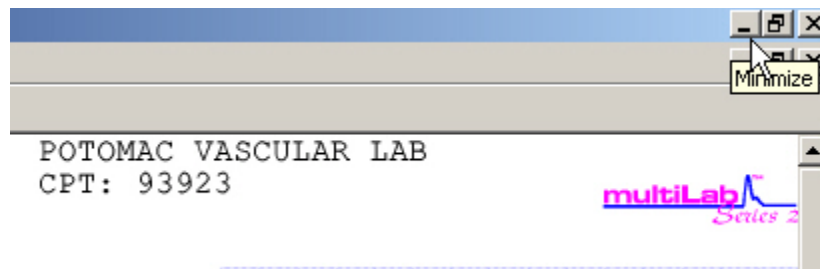
Embedding Files

An alternative to the large .BMP format, but one that also gives almost universal viewability, is to save the Patient as a Microsoft Word™ document. This also gives you the ability to combine text editing with the Patient Report. This can be accomplished as follows:

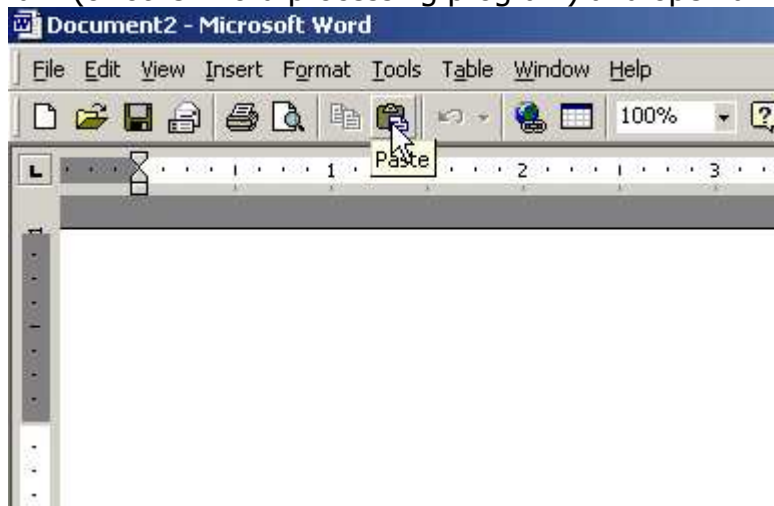
With the desired study in the UnetView Screen, click the word "Edit" on the toolbar and then click the word "Copy" or right click on the image and then left click on the "Copy" that appears (you can also copy without using your mouse by pressing the "Control" and "C" keys simultaneously). This will copy the image to the Windows Clipboard.



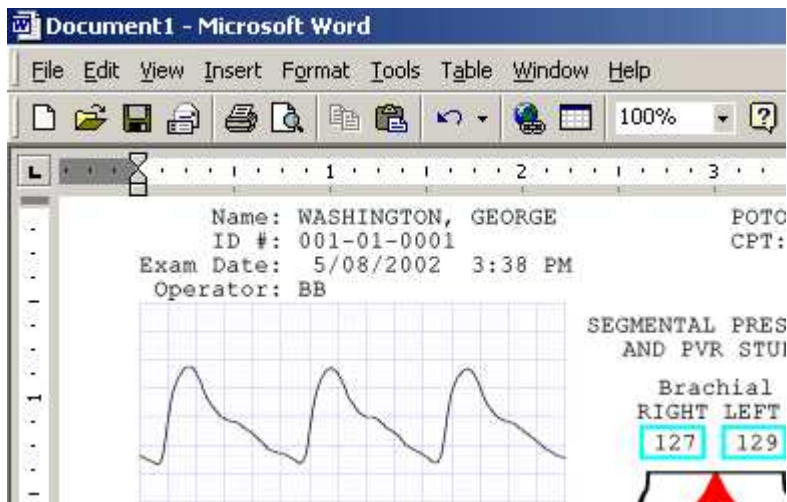
Click on the _ box in the upper right corner of the UnetView Screen to minimize the application:



Open Microsoft Word™ (or other word processing program) and open a new blank document.



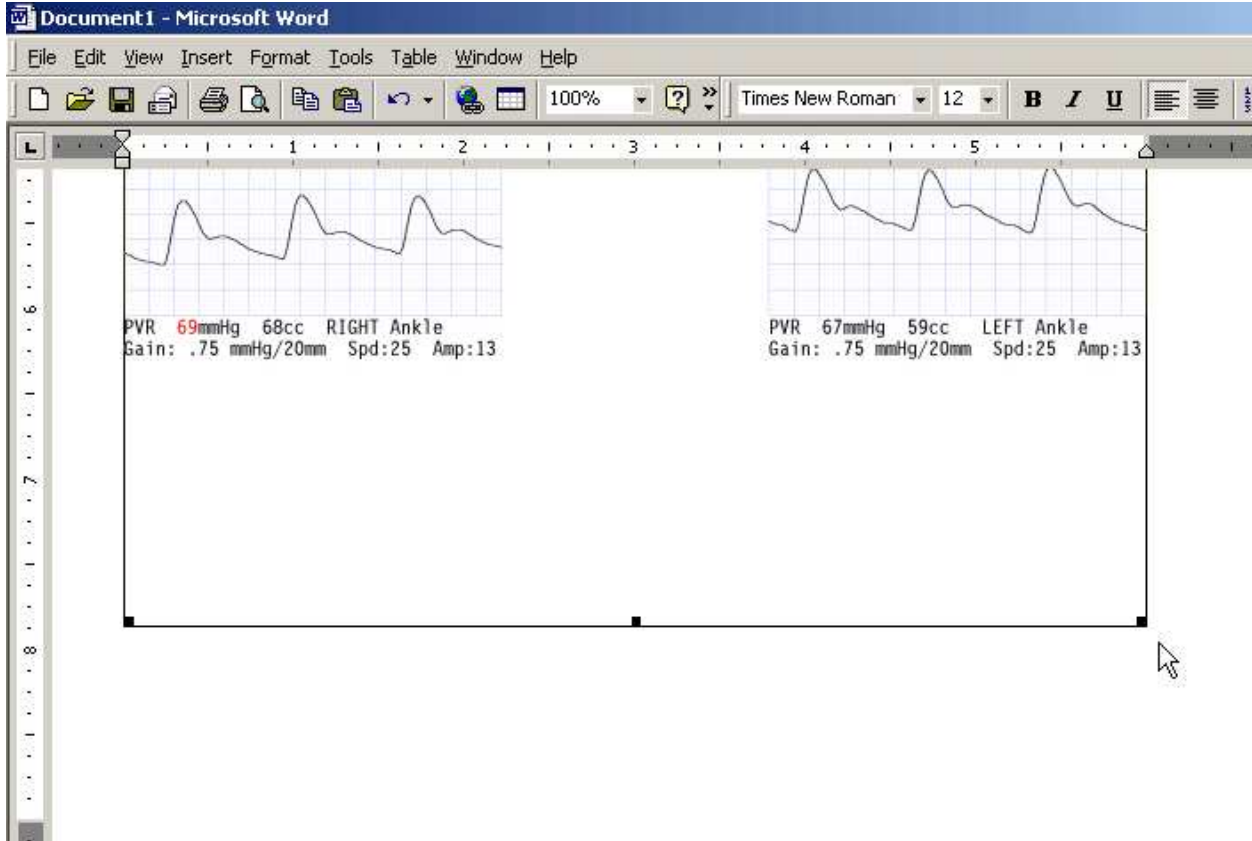
Click the "Clipboard" icon in the Word toolbar, which will paste the image into the blank document.



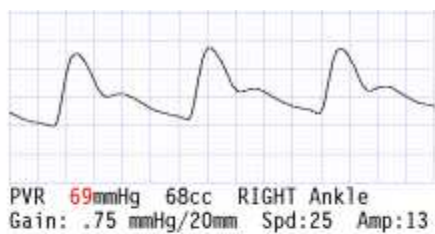
EDITING AND SAVING WORD™ DOCUMENTS

Once you have a UnetView report embedded into a Word™ document, you can save it by simply clicking on "File", "Save as" and giving the document a name. Word will automatically assign the .DOC extension to the document and it can be viewed by anyone running Word on their computer. The document can also be sent as an e-mail attachment, or printed just like any other document in color or black and white. The .DOC file will also be quite reasonable in size, at 104KB (35 times smaller than a .BMP file!)

You may also wish to resize or edit the document. To add text to the Word™ document, click your mouse once in the middle of the image to bring up the dimension lines of the image, and scroll down till you reach the end of the image box on the page as follows:

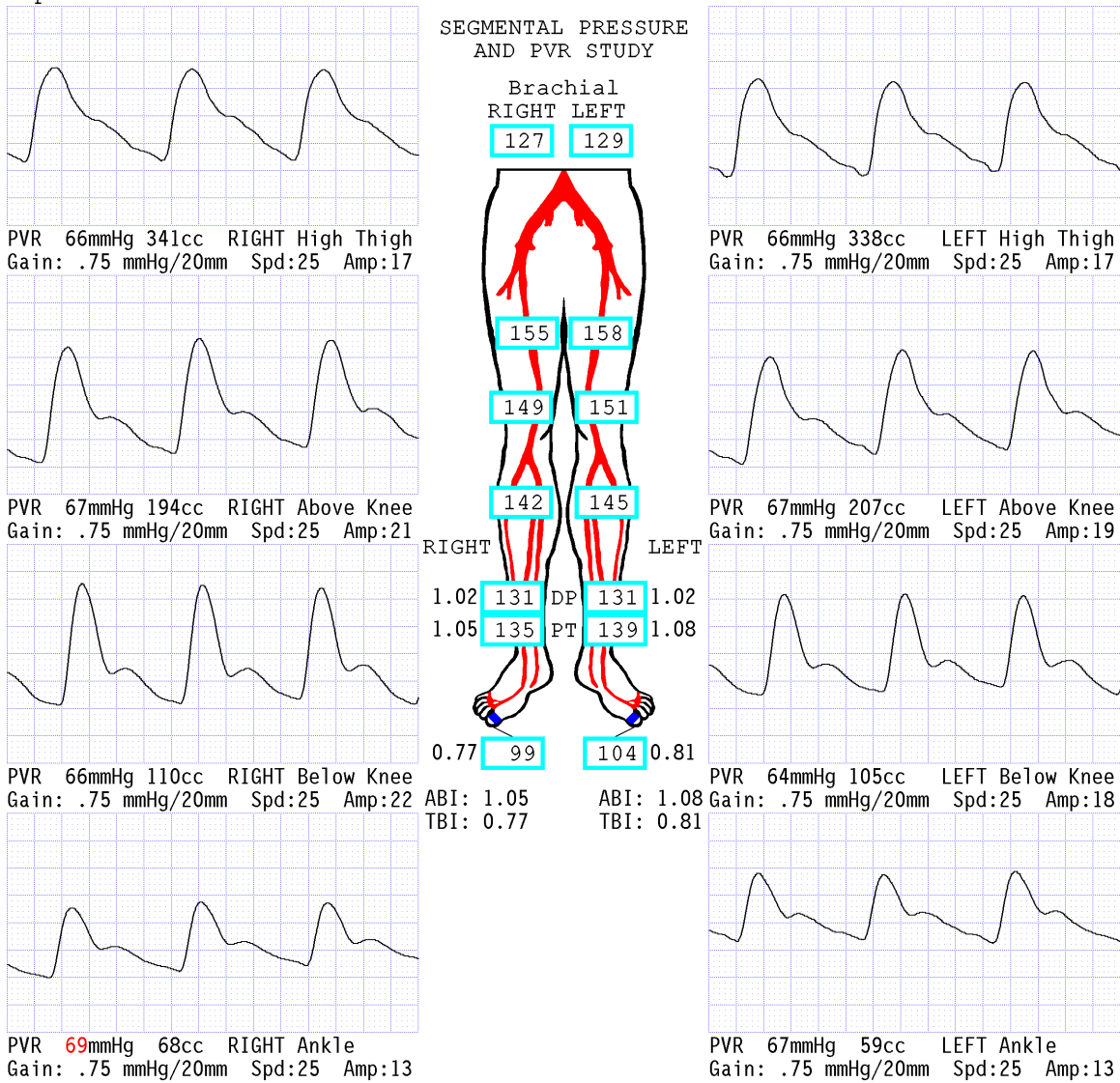


Click your mouse once to the bottom left of the image box to set your cursor in the proper position:



| < [This is your cursor, ready to begin typing]

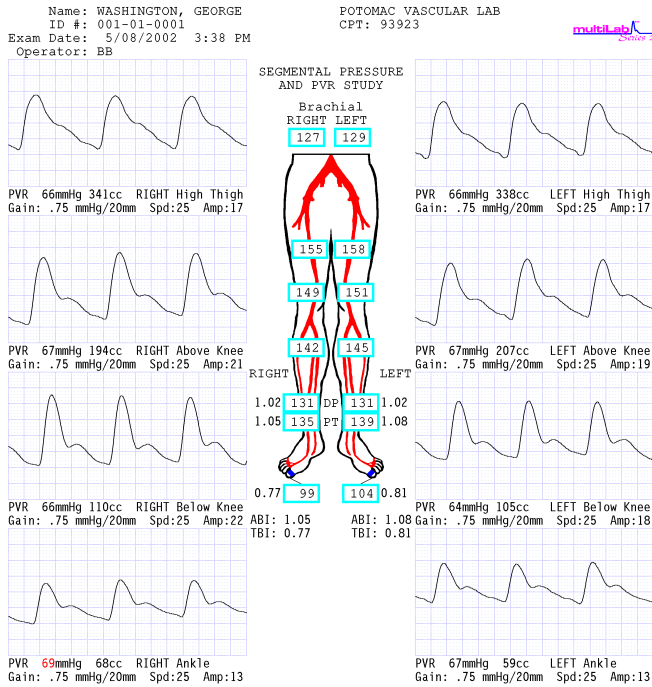
Begin typing text or interpretation data and save document. When finished, the report can look like the one on the following page:



72 yr. old male presented with pain in buttocks. All pressure values, indices, and waveforms are normal. No evidence of vascular disease.

Resizing Images in Word Documents

You can also “shrink” embedded images by clicking on the image to illuminate the image area and “grabbing” a corner “handle” by left clicking the mouse and holding button down, while dragging the “handle” diagonally inwards. Release the mouse button when the image is the desired size.



You can even make the image small enough to type text to the right of the image in a 2-column format, and still save as a single page report.

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