

# *Medical Recorder*

*User manual*

## Overview:

An archiving system works as a second station for medical devices that has a standard video out. Suitable for medical procedures that include images & videos (Endoscope, Ultrasound, Microscopic Investigations, etc.)

The Work station is extremely flexible, it can be prepared, and designed to meet all medical procedures



**Featured Benefits:**

Extremely flexible, can be prepared and designed to meet all medical procedures Archiving case studies, track parameters results, easy searching and retrieving

Video stream receiver (record videos, capture still images)

Image processing toolbox (enhancement and filters as contrast, brightness ...)

Image annotation toolbox (drawing shapes and text)

Video processing toolbox (merging, splitting videos and capture still images)

Full customized reporting with preset templates, Report supported by images

DICOM maker module to convert studies to DICOM study

Send converted DICOM studies to PACS servers via LAN

CD burning room to make study CD

Copy study to removal device (USB memory)

Upload studies to [medicalplayer.com](http://medicalplayer.com) community

## Installation:

Medical Recorder works under windows 7 or later

The folder contains “windows.7.codec.pack.v4.0.1.setup.exe” this file will install the required video codec for video recording

The folder contains “TeamViewerQS\_ar.exe”, this file will be used for online supporting

The file “MedicalRecorder.exe” is the software executable file

Connect the video acquisition card to your PC then use a standard video cable to receive the video signal fro the endoscope video out

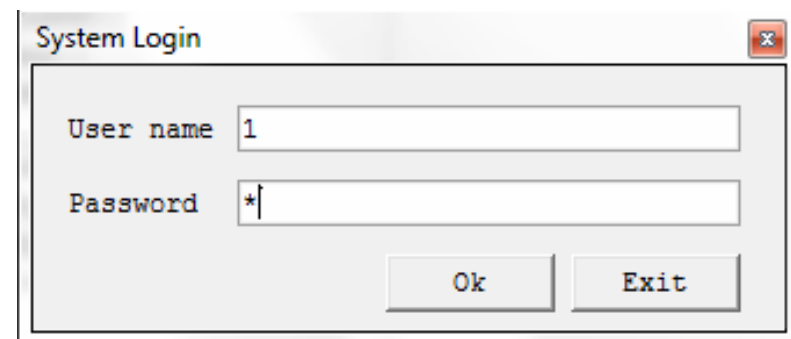
Run “MedicalRecorder.exe”,

you will see the login window

Use “1” for user name and

“1” for password

These information can be updated



## Main window:



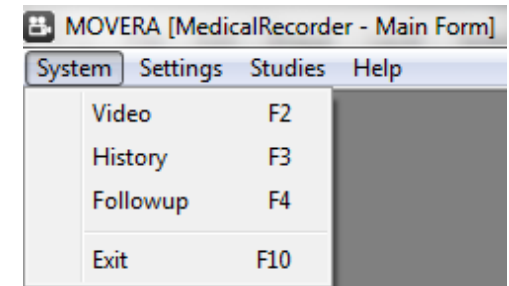
The main window has a toolbar on the left contains the following:

The first icon opens the video signal window. The second icon opens the history window. The third icon opens the statistics window. The fourth icon opens this file. The fifth icon closes the system

The “System” menu has the following items:

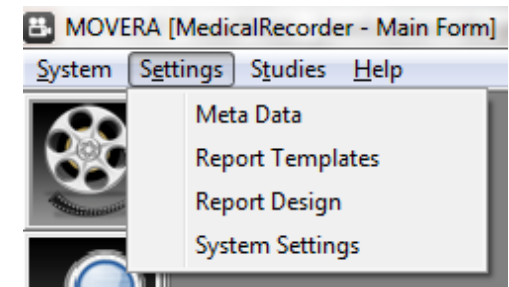
“Video” opens the video signal window. “History” opens the history window.

“Followup” opens the statistics window. “Exit” closes the system

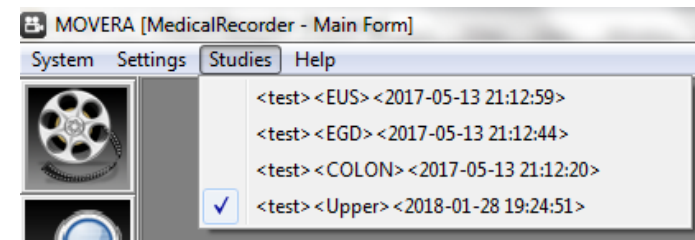


The “Settings” menu has the following items:

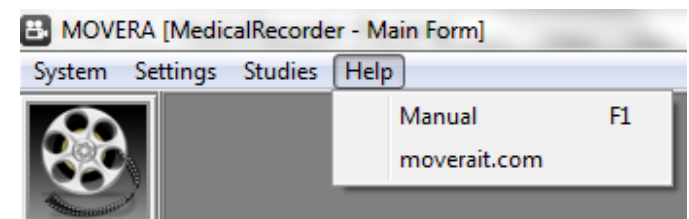
“Meta Data” opens the system preparation window. “Report Templates” enables the user to prepare a preset reports to be used later. “Report Design” enables the user to design a header and a footer for the report. “System Settings” opens the settings window



The “Studies” menu lists the opened studies



The “Help” menu has 2 items, “Manual” opens this file, and “moverait.com” opens MOVERA website

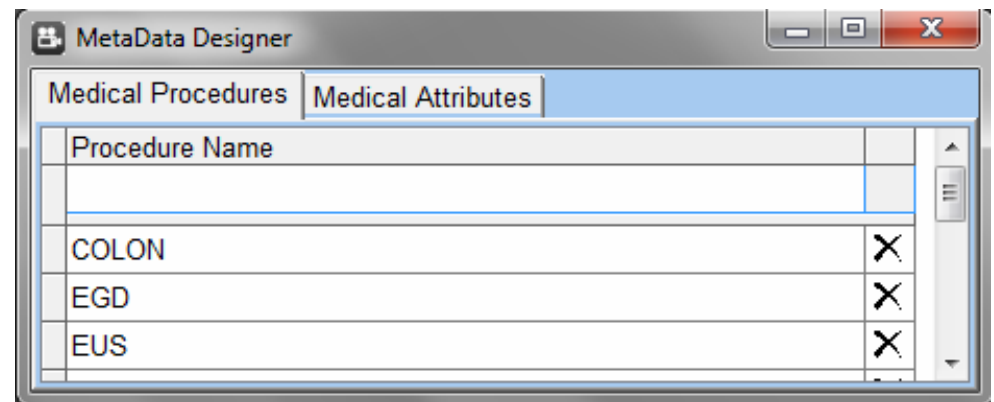


## Meta Data window

Meta Data Settings window enables the user to determine the medical procedures to be used as a study ID. Design medical procedure items, and templates to be used as preset values

## The first page (Medical Procedures)

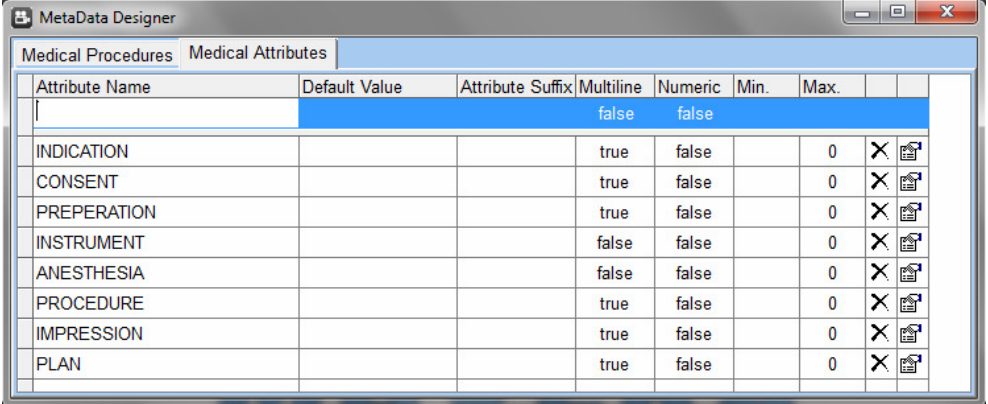
Use the first row to add a new medical procedure and press “Enter”  
The second column has the delete icon click on it to delete the medical procedure



## Meta Data window

### The second page (Medical attributes)

In this page you can set the medical attributes to be used for tracking studies. Use the first row to add new attribute by typing attribute name, default value to be used. The column multi line determines if the attribute value needs multi line. The numeric column determines if the attribute value should be numeric. The min. and max. columns determine the normal values limits of the attribute. The delete icon for deleting the attribute

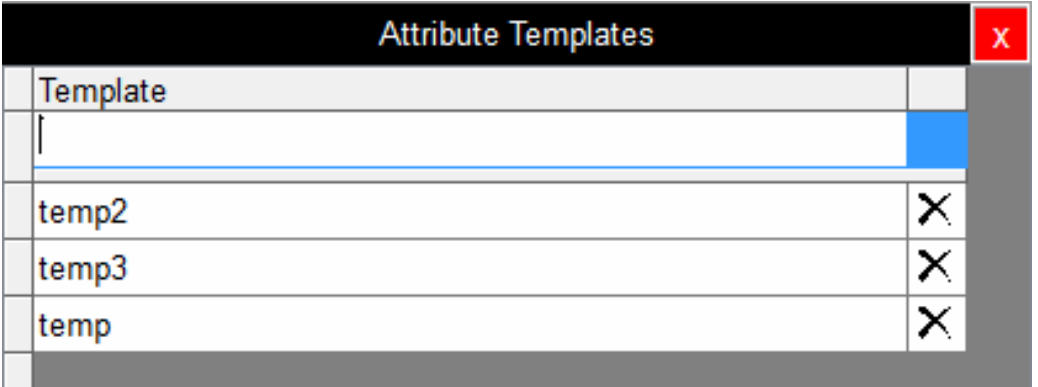


The screenshot shows the 'Medical Attributes' tab in the 'Metadata Designer' application. It contains a table with the following columns: Attribute Name, Default Value, Attribute Suffix, Multiline, Numeric, Min., Max., and a delete icon. The table lists several attributes with their respective settings.

Attribute Name	Default Value	Attribute Suffix	Multiline	Numeric	Min.	Max.	
			false	false			
INDICATION			true	false		0	X
CONSENT			true	false		0	X
PREPERATION			true	false		0	X
INSTRUMENT			false	false		0	X
ANESTHESIA			false	false		0	X
PROCEDURE			true	false		0	X
IMPRESSION			true	false		0	X
PLAN			true	false		0	X

The last column open the attribute template window to set templates of the selected attribute to be used as a drop down list for the parameter in the study data view

Use the first row to add a template and press "Enter". Use the delete icon to delete the attribute

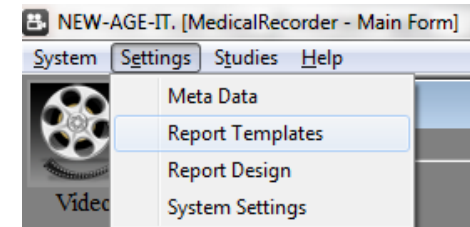


The screenshot shows the 'Attribute Templates' window. It has a table with columns for 'Template' and a delete icon. The table lists several templates, with the first row highlighted in blue.

Template	
temp2	X
temp3	X
temp	X

## Report Templates window

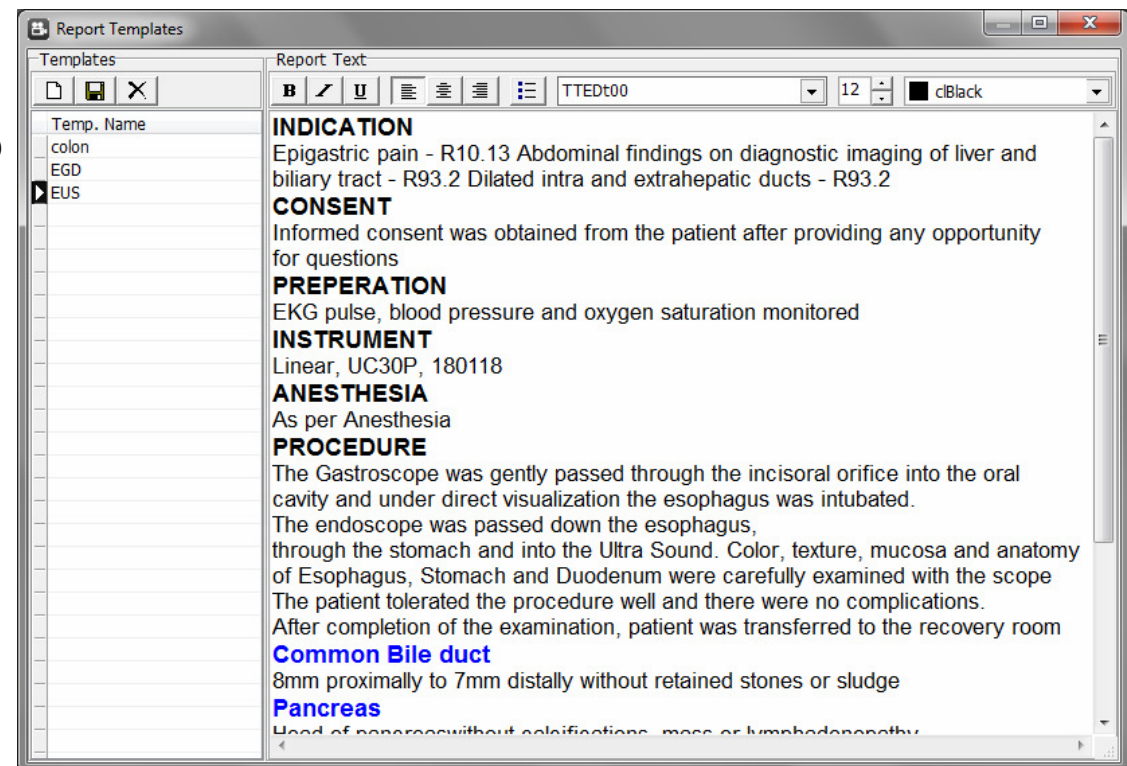
From the “Settings” menu select “Report Templates” to open the “free typing report templates” window



The “free typing report templates” is a word processing window, the left list lists the templates saved, the above 3 buttons “New” to make a new template file, “Save” to save the current formatted text to a template file, and “Delete” to delete the selected template file

The word processing area contains formatting text tool box to control font properties

The saved templates can be used in the study window to load a preset template report to be used

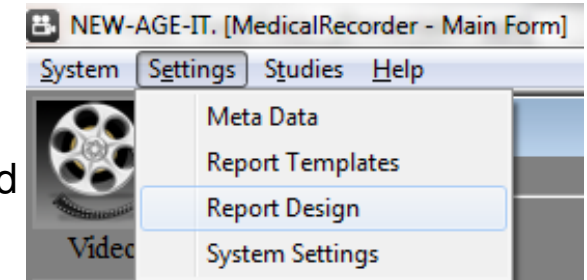




## Report Design window

From the “Settings” menu select “Report Design” to open the “report design”

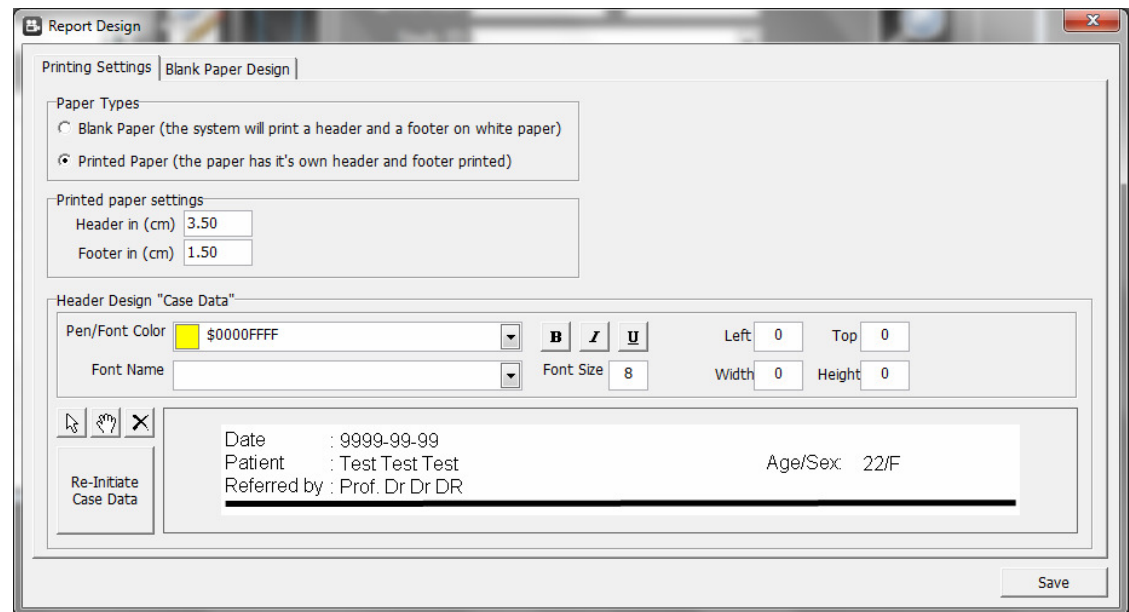
You have 2 options the first is a blank paper means the system will design the header and footer of the paper, the second is a ready header and footer printed



In case of the printed paper you will be asked to determine the header and footer heights, in case of blank paper the system will design the header and the footer of the page

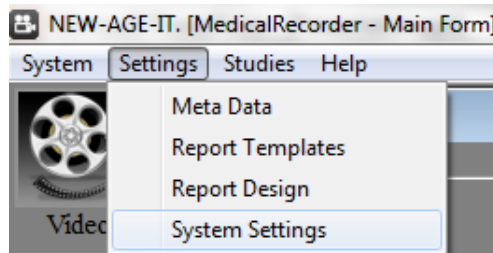
The bottom area shows the case data printed on the paper header, this can be customized to meet your need

You can control the items of the case data by the tool box above the case data area (font, and dimensions)

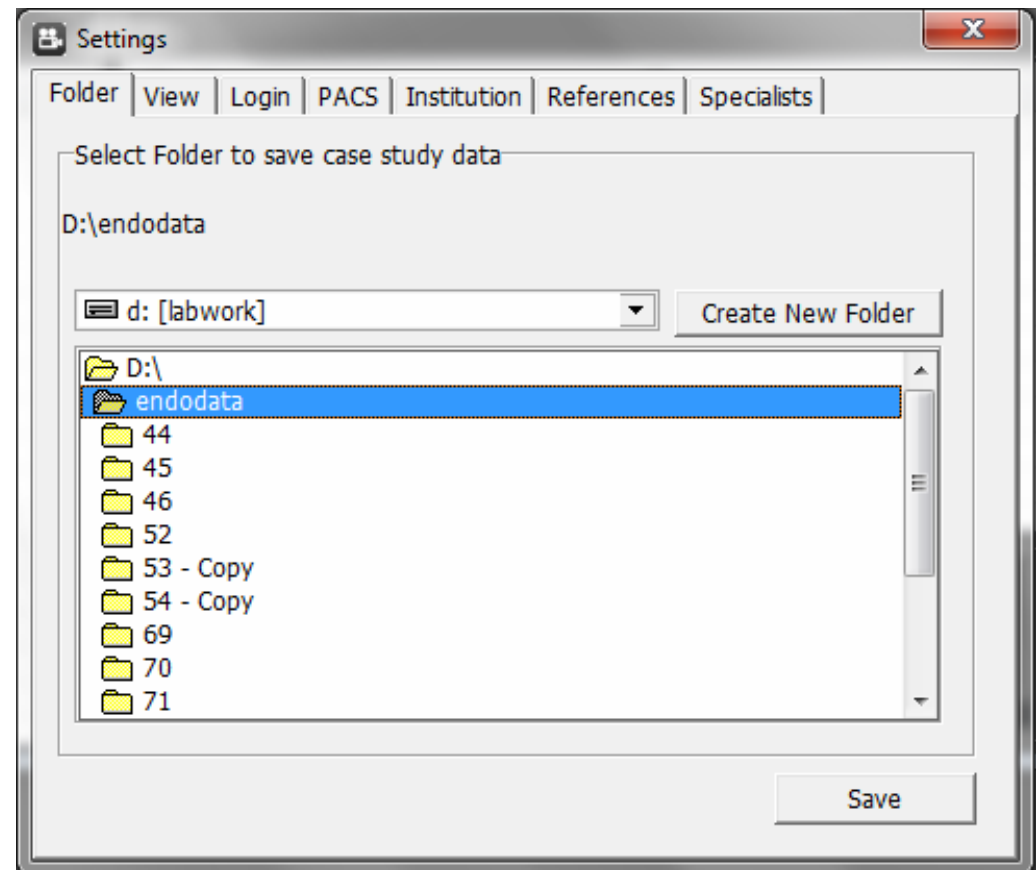


## Settings window

From the “Settings” menu select “System Settings” to open the “System Settings” window which has 7 pages a show



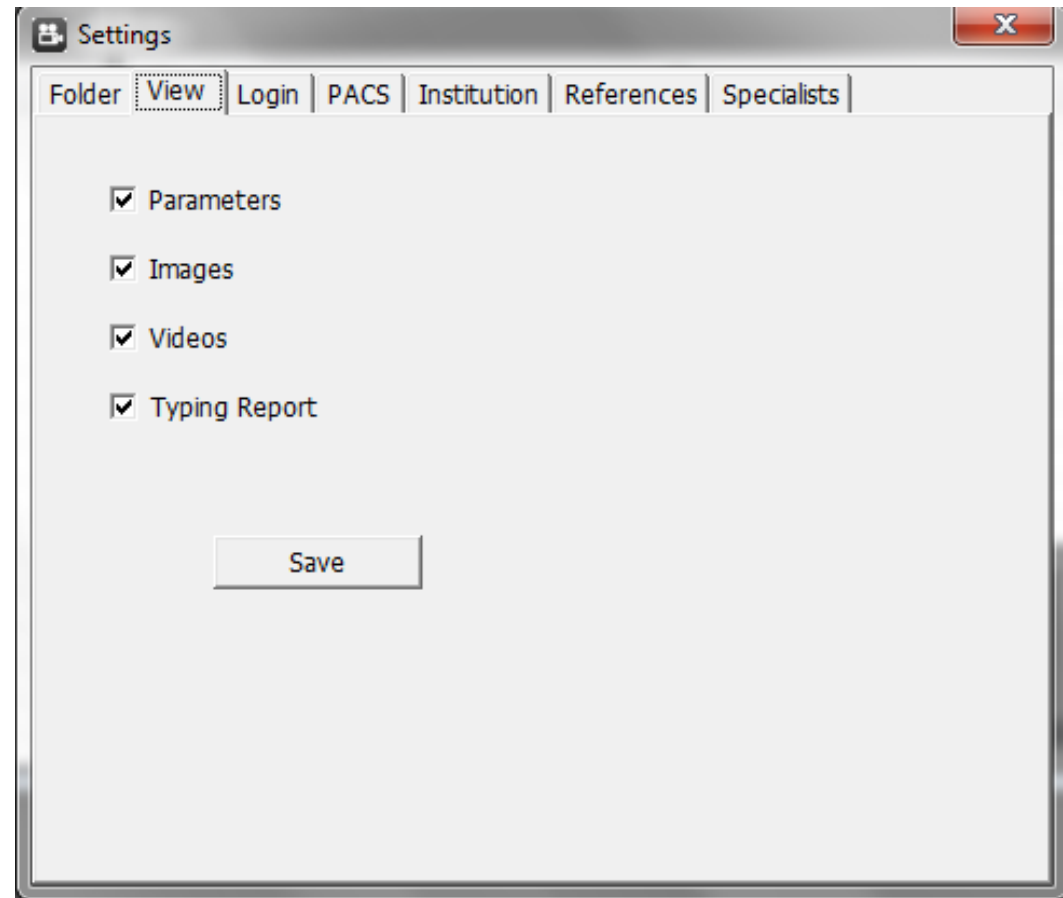
The first page is “Folder” in which the system sets the folder to save study files (Images, Videos, and reports)



## Settings window

The second page is “View” in which the system sets the study window view

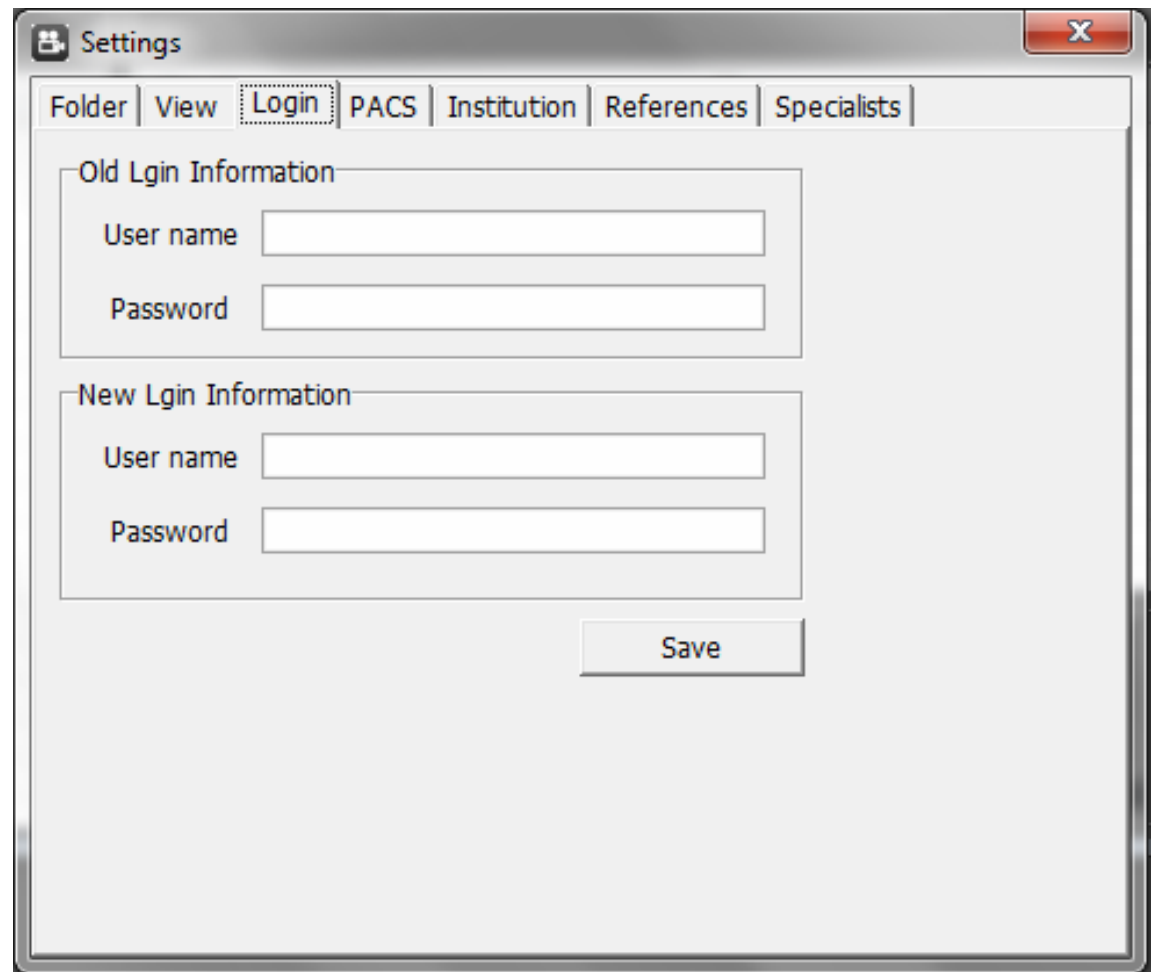
Checking and Un-checking the check boxes will control the visibility of the study window pages



## Settings window

The third page is “login” in which the system changes the login information (user name and password)

You will be asked to type the old information and the new information to make the change that will take effect on the next system login



The screenshot shows a window titled "Settings" with a close button (X) in the top right corner. The window has a tabbed interface with the following tabs: "Folder", "View", "Login" (which is selected and highlighted with a dotted border), "PACS", "Institution", "References", and "Specialists".

Under the "Login" tab, there are two sections:

- Old Lgin Information:** This section contains two input fields: "User name" and "Password".
- New Lgin Information:** This section also contains two input fields: "User name" and "Password".

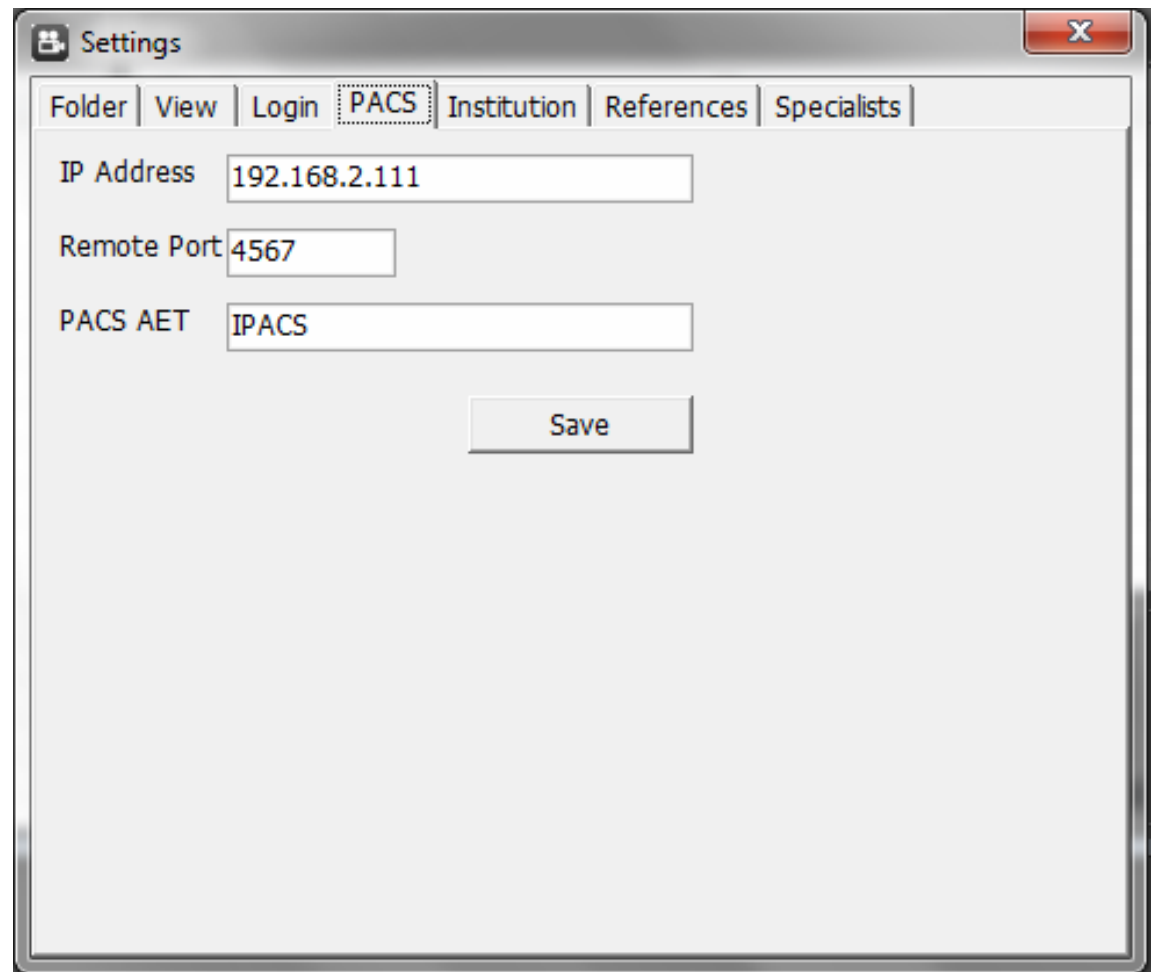
At the bottom right of the window, there is a "Save" button.

## Settings window

The fourth page is “PACS” in which the system sets the information of the PACS server to be used as a destination of the study after converted to DICOM

The PACS information includes

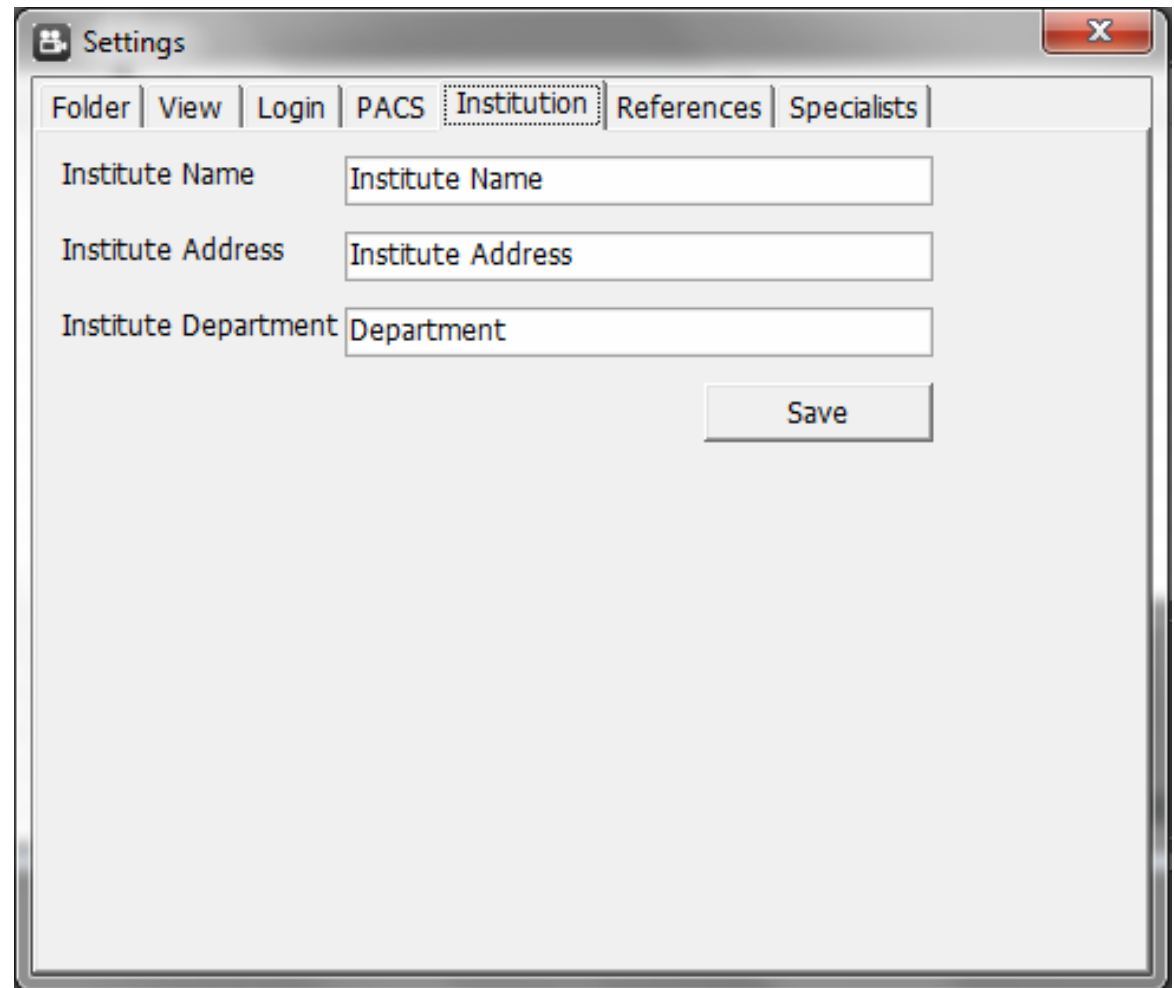
IP address of the server machine, the port that the PACS listen to, and the PACS application entity title



The screenshot shows a window titled "Settings" with a close button (X) in the top right corner. The window has a tabbed interface with the following tabs: "Folder", "View", "Login", "PACS" (which is selected and highlighted with a dotted border), "Institution", "References", and "Specialists". The "PACS" tab contains three text input fields: "IP Address" with the value "192.168.2.111", "Remote Port" with the value "4567", and "PACS AET" with the value "IPACS". A "Save" button is located at the bottom right of the form area.

## Settings window

The fifth page is “Institution” in which the system sets the information of the institution to be used in DICOM attributes when converting study to DICOM study



The screenshot shows a window titled "Settings" with a close button (X) in the top right corner. The window contains a tabbed interface with the following tabs: Folder, View, Login, PACS, Institution (selected), References, and Specialists. The "Institution" tab is active and displays three text input fields:

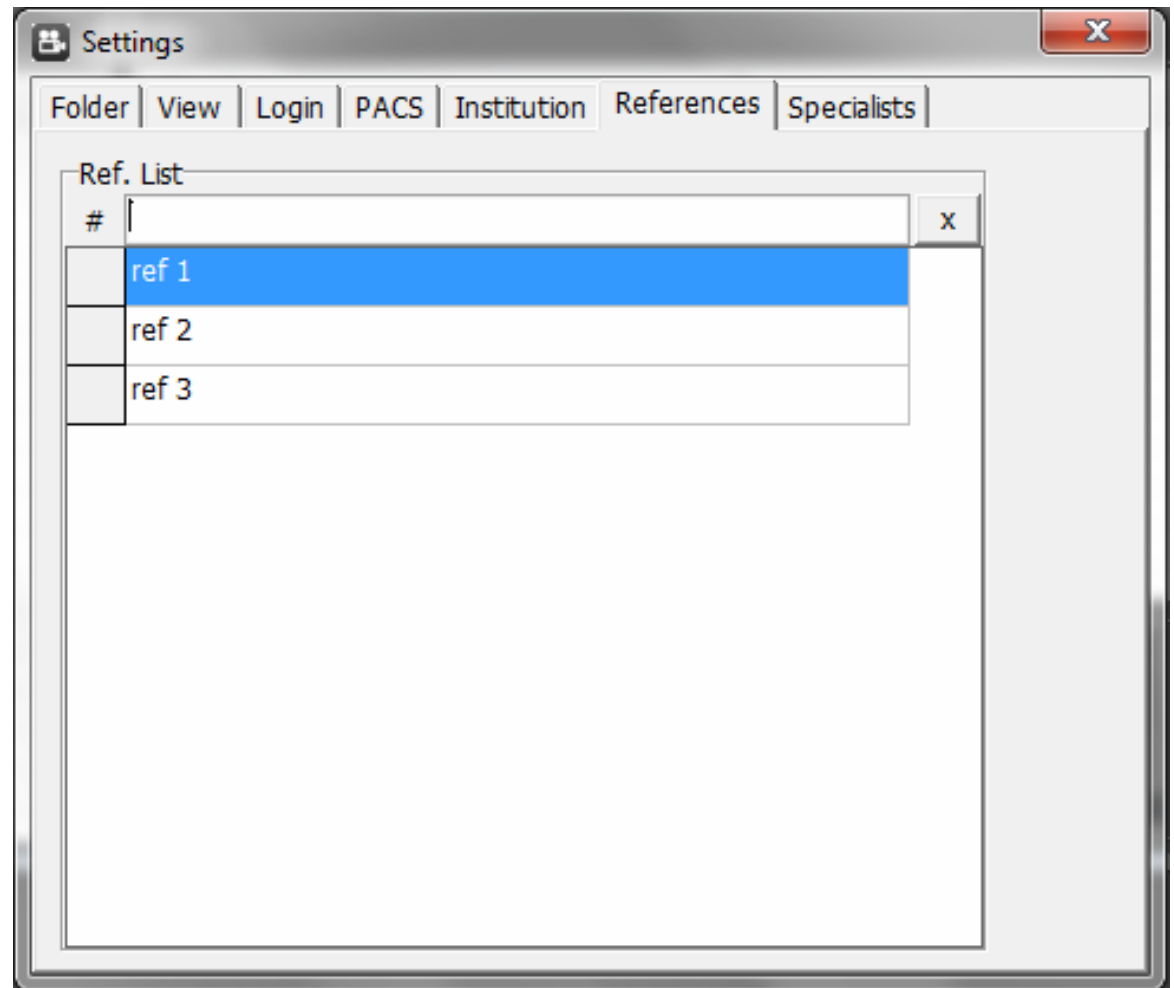
- Institute Name: Institute Name
- Institute Address: Institute Address
- Institute Department: Department

A "Save" button is located at the bottom right of the form area.

## Settings window

The sixth page is “References” in which the system sets a list of references to be used in study as a “Ref. By” field.

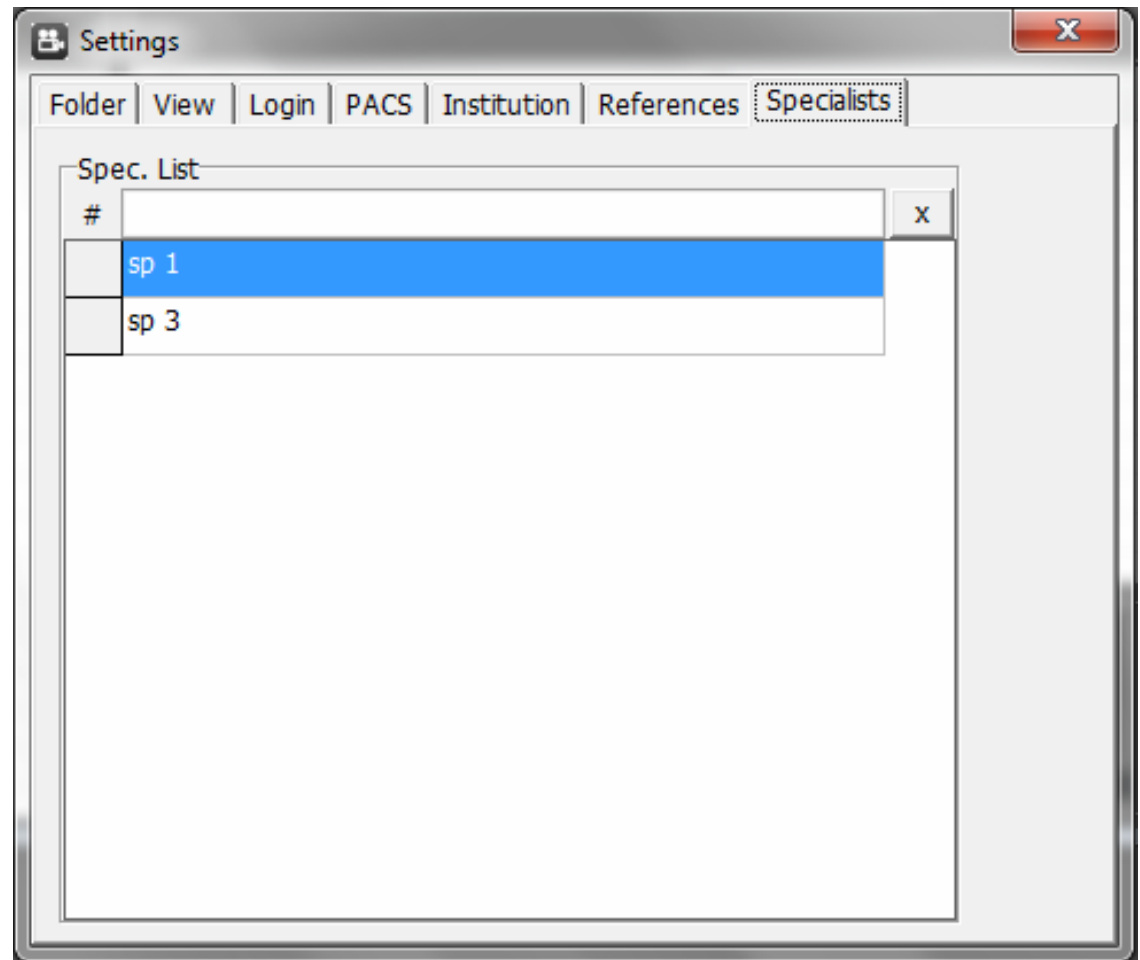
Type the reference on the top edit box and press enter to add it, select a reference and edit it if needed. To delete a reference select and press “x” button



## Settings window

The seventh page is “Specialists” in which the system sets a list of specialists to be used in study as a “Signature” field.

Type the specialist on the top edit box and press enter to add it, select a specialist and edit it if needed. To delete a specialist select and press “x” button





## Video Signal Window

The video signal window connects to the medical device and show the video stream, here you can connect to 2 different video source, the menu on the left controls the functions, and the tool bar on the top enables voice notes recording

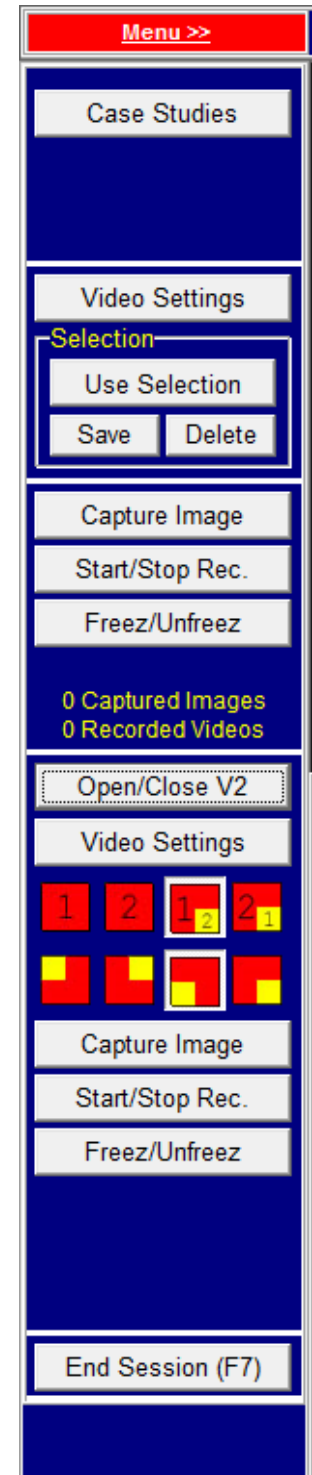
The screenshot displays the Medical Recorder software interface. At the top, a blue status bar shows "Menu >>" on the left, "Voice: [record icon] [play icon] [stop icon] [mute icon] 0:00 [close icon] Position: 0.00" in the center, and a red "X" close button on the right. Below the status bar is a vertical menu on the left with the following options: "Case Studies", "Video Settings", "Selection" (with sub-options "Use Selection", "Save", and "Delete"), "Capture Image", "Start/Stop Rec.", "Freez/Unfreez", "0 Captured Images", "0 Recorded Videos", "Open/Close V2", "Video Settings" (with a grid of red and yellow buttons), "Capture Image", "Start/Stop Rec.", "Freez/Unfreez", and "End Session (F7)". The main area is divided into two video windows. The top window shows a close-up of a patient's mouth and throat, with two bright light reflections. The bottom window shows a grayscale ultrasound image of a vessel, with the word "CELIAC" in green text at the bottom center. In the top right corner of the ultrasound window, the text "11:12H" and "16Hz" is visible. The bottom window also has a vertical slider on the left and small green arrows on the right.

## Video Signal Window

The menu on the left has the following

- “Menu” show/hide this menu,
- “Case Studies” to determine case study to record,
- “Video Settings” to adjust the video source properties,
- “Selection” to determine a selected area to capture,
- “Capture Image” or “F3” to capture image,
- “Start/Stop Rec.” or “F4” to start and stop video recording,
- “Freeze/Unfreeze” or “F5” to freeze / unfreeze video signal
- “Open/Close V2” to open and close the second video source,
- “Video Device” to adjust the second video source properties,
- the next 8 icons adjust the locations of the 2 video signals,
- “Capture Image” or “F6” to capture image from the second video source,
- “Start/Stop Rec.” or “F7” to start and stop video recording from the second video source,
- “Freeze/Unfreeze” or “F8” to freeze / unfreeze the second video source,
- “End Session” to end the case study and prepare for a new one

The top right close icon switch to the system again



## Video Signal Window

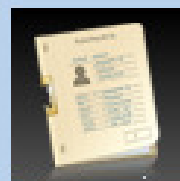
The case study button opens a popup window to determine the current session, the popup has 4 possibilities

New Case = patient for the first time,

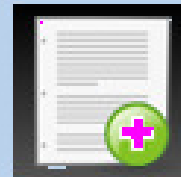
New Study = a new visit for an existing patient,

Edit Study = adding files to an existing visit,

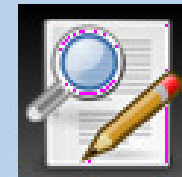
Import = imports case study through HL7 files



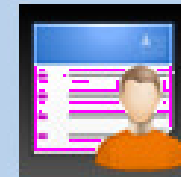
New Case



New Study



Edit Study



Import

## Video Signal Window

### Case Study Data 1-) New Case

Press “New Case” to start typing a new patient data, fill patient data as shown

For “Sex” field type “M” for male or “F” for female

The “DOB” and “Age” fields calculate each other

Now fill the study data

Select study ID from the drop down list

Case Info.

Case UID

Case Name

Case Sex  DOB  Age

Case Weight  Case Height

Residence

Case Ref.

Case Notes

Study Info.

Study UID

Study ID

Study Weight  Study Height

Study Ref.

Study Desc.

### Case Study Data 2-) New Study

Press “New Study” to make a new study for an existing patient

Search for patient by UID or name and press “enter”

Select a patient from the search result grid

Now fill the study data

Select study ID from the drop down list

Search Case

Case UID or Name

UID	Name	Sex	Age	Date
0001	test	Male	33 Y	05/13/201...
0053	a	Male	33 Y	06/06/201...

Study Info.

Study UID

Study ID

Study Weight  Study Height

Study Ref.

Study Desc.

## Video Signal Window

### Case Study Data 3-) Edit Study

Press “Edit Study” to add files to an existing study

Search for patient by UID or name and press “enter”

Select a patient from the search result grid will fill the bottom list with the selected patient studies

Now select a study to add files

The screenshot shows two windows from a medical software interface. The top window, titled 'Search Case', has a search input field labeled 'Case UID or Name' with a magnifying glass icon. Below it is a table with columns: UID, Name, Sex, Age, Date. The table contains two rows: (0001, test, Male, 33 Y, 05/13/201...) and (0053, a, Male, 33 Y, 06/06/201...). The bottom window, titled 'Case Studies', has a table with columns: Study, Date, Ref. The table contains three rows: (COLON, 05/13/201..., ), (EGD, 05/13/201..., ), and (EUS, 05/13/201..., ref 1). The 'COLON' row is highlighted.

UID	Name	Sex	Age	Date
0001	test	Male	33 Y	05/13/201...
0053	a	Male	33 Y	06/06/201...

Study	Date	Ref.
COLON	05/13/201...	
EGD	05/13/201...	
EUS	05/13/201...	ref 1

### Case Study Data 4-) Import

Press “Import” to open the window shown to get case from HL7 file for integration purposes

Pressing “Open HL7 file” will open a dialog box to select an HL7 file

The contents of the file will be shown in the top edit box

The extracted data will be listed as item valued list

You can edit any field

Finally press “Accept the data and import” to finish

The screenshot shows the 'Import Case Study' dialog box. It has a tab labeled 'Read HL7 files' and a button 'Open HL7 file'. Below the button is a text area containing HL7 data: PID|1||28514753||Joan^Howard^J||196303241225|F| SAC|991912376^EXTLAB|01039421^THISLAB|092321A^LAS|092321^LAS||SER|19980620080037|R^PROCESS ORC|RE|5212498721A|||||~~~~~R| OBR|1|5212498721A||2951-2^SODIUM^LN||199807240826||||||SER| OBX|1|NM|2951-2^SODIUM^LN||24.3|ug/g|N|. Below the text area is a section titled 'HL7 extracted data - you can edit -' which contains a table with columns 'Attribute' and 'Value'. The table lists: PatientID, PatientName (Joan Howard J), BirthDate (196303241225), PatientSex (F), PatientAddress, ACCESSIONNUMBER, STUDYNAME (2951-2 SODIUM LN), STUDYUID, and MODALITY. At the bottom right is a button 'Accept the data and import'.

```
PID|1||28514753||Joan^Howard^J||196303241225|F|
SAC|991912376^EXTLAB|01039421^THISLAB|092321A^LAS|092321^LAS||SER|19980620080037|R^PROCESS
ORC|RE|5212498721A|||||~~~~~R|
OBR|1|5212498721A||2951-2^SODIUM^LN||199807240826||||||SER|
OBX|1|NM|2951-2^SODIUM^LN||24.3|ug/g|N|
```

Attribute	Value
PatientID	
PatientName	Joan Howard J
BirthDate	196303241225
PatientSex	F
PatientAddress	
ACCESSIONNUMBER	
STUDYNAME	2951-2 SODIUM LN
STUDYUID	
MODALITY	

## History Window

The left part deals with case (patient) search, type patient code, name, or part of them then press enter to search for patients, the search results will be listed on the grid. Selecting a patient from the grid will list the studies in the right grid, the button “Edit Case” opens the edit case window to edit patient data, and the button “Del. Case” will delete the selected patient.

The right part deals with the studies, you can narrow the search by study and/or date interval. The buttons on the bottom are:

“Edit study” opens the edit study window. “Delete study” deletes the selected study.

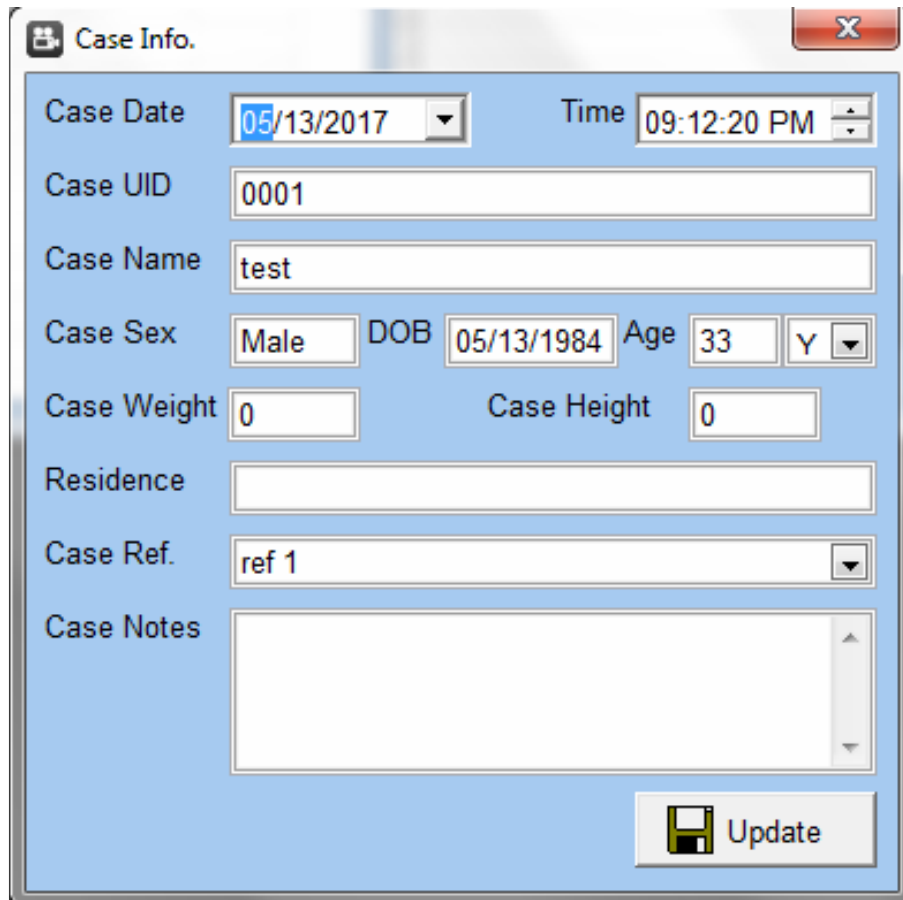
“Open” opens the selected study. “CD” opens the CD burn room. “USB” sends the study to USB.

“Dicomizer” opens the DICOM convert window. “WWW” opens the medicalplayer.com up loader. “Folder” opens the folder that contains the study files



## Edit Case Window

From history window press “Edit Case” will open this window to edit the patient data, after finishing press “Update” to save your work

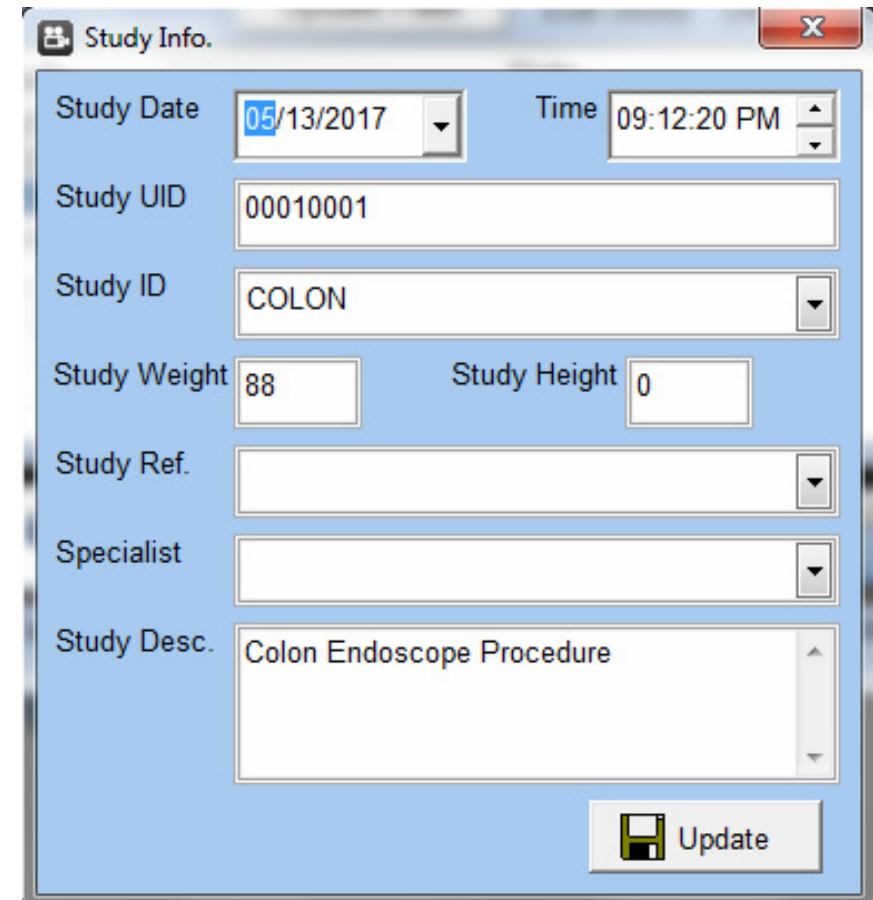


The 'Case Info.' window contains the following fields and controls:

- Case Date: 05/13/2017 (dropdown)
- Time: 09:12:20 PM (time picker)
- Case UID: 0001 (text input)
- Case Name: test (text input)
- Case Sex: Male (dropdown)
- DOB: 05/13/1984 (text input)
- Age: 33 (text input)
- Y: Y (dropdown)
- Case Weight: 0 (text input)
- Case Height: 0 (text input)
- Residence: (empty text input)
- Case Ref.: ref 1 (dropdown)
- Case Notes: (empty text area)
- Update button: (floppy disk icon) Update

## Edit Study Window

From history window press “Edit Study” will open this window to edit the study data, after finishing press “Update” to save your work



The 'Study Info.' window contains the following fields and controls:

- Study Date: 05/13/2017 (dropdown)
- Time: 09:12:20 PM (time picker)
- Study UID: 00010001 (text input)
- Study ID: COLON (dropdown)
- Study Weight: 88 (text input)
- Study Height: 0 (text input)
- Study Ref.: (empty dropdown)
- Specialist: (empty dropdown)
- Study Desc.: Colon Endoscope Procedure (text area)
- Update button: (floppy disk icon) Update

## Study Window

The study window contains all study files and report, the top bar contains the brief of the case study info., on the right of this bar a drop down list to select the specialist which is used as a signature of the reports and a save button to save

On the bottom of this bar you can see the titles of the 4 pages contains the study files and will be explained next to this slide, then the voice notes utility to record and play voice notes

On the right of the window there is a tool box contains 5 buttons

“Files” will open a popup window to add stored files to the study,

“Folder” will open the folder contains the study files,

“Make CD” will open the CD burner window to burn the study to CD,

“USB” will open the USB export window to send the study files to a USB flash memory,

“Dicomizer” will open the DICOM converter window to convert the study to a DICOM study

“WWW” will open the medicalplayer up loader tp share the study



## Study Window (Parameters page)

The first page of the study window is “Study Parameters” in which list the study parameters that has been built in meta data settings.

On the top there is a “Save” button to save parameters

Save Parameters

INDICATION

PROCEDURE

CONSENT

IMPRESSION

PREPERATION

PLAN

INSTRUMENT

ANESTHESIA

13

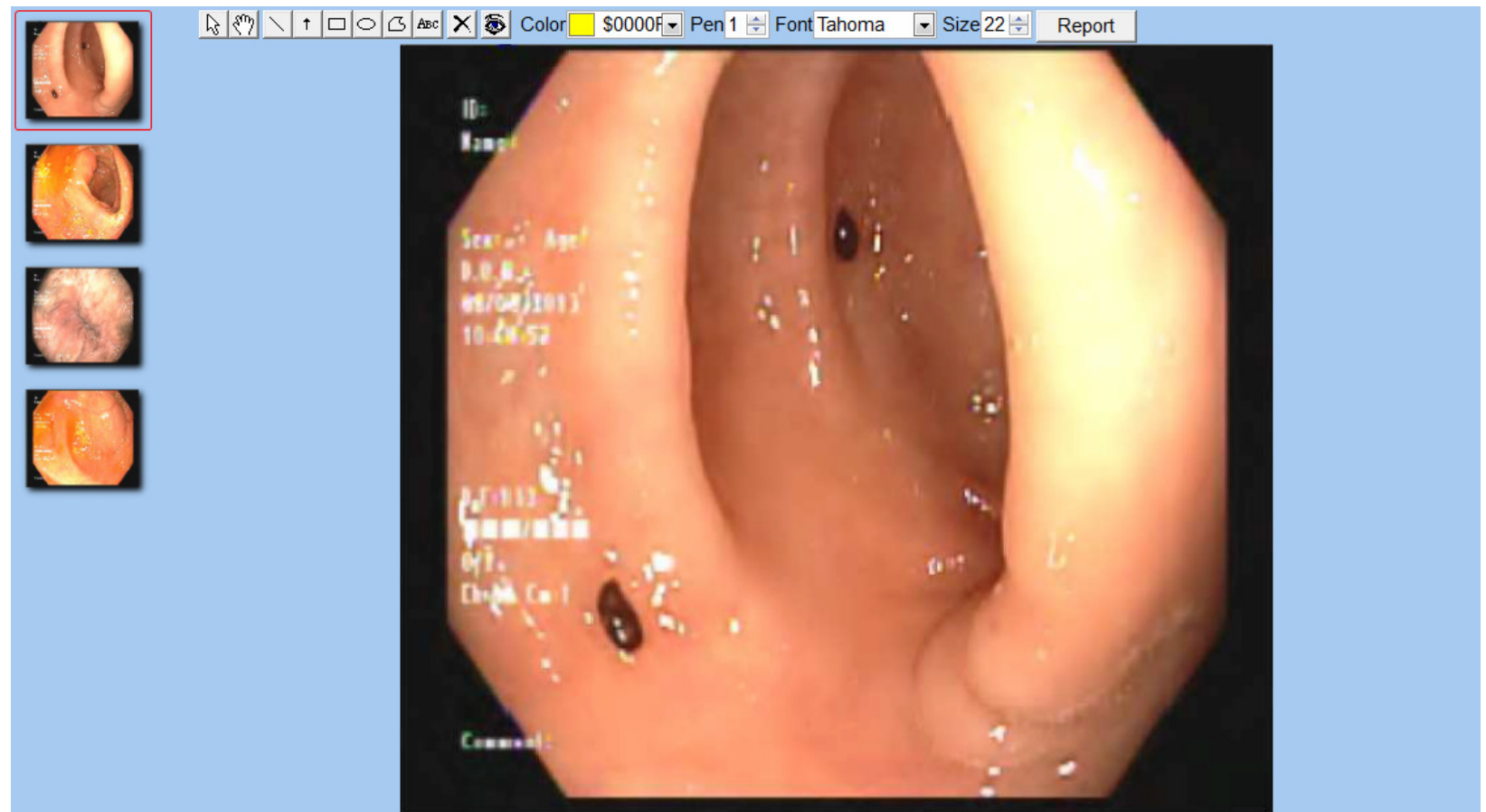
## Study Window (Images page)

The second page of the study window is the “Images” page, the available images listed on the left, selecting an image will show it in the working area

The tool button on the top contains the annotations functions (line, text, ..)

The “Eye” button opens the image processing window in which you can apply image processing functions and filters

The button “Report” will open the “Images Report” window



## Study Window (Print Images)

The “Images Report” window enables you to prepare a page of images to be printed as a grid view

The available images listed on the right, first set columns and rows on the top to prepare the grid view, select an area from the grid view then double click an image on the right to add it, the button “X” delete the selected image, the button “save” will save your work the button print will print the report to the default printer If you check “Print Dialog” the system will show the print dialog box before print

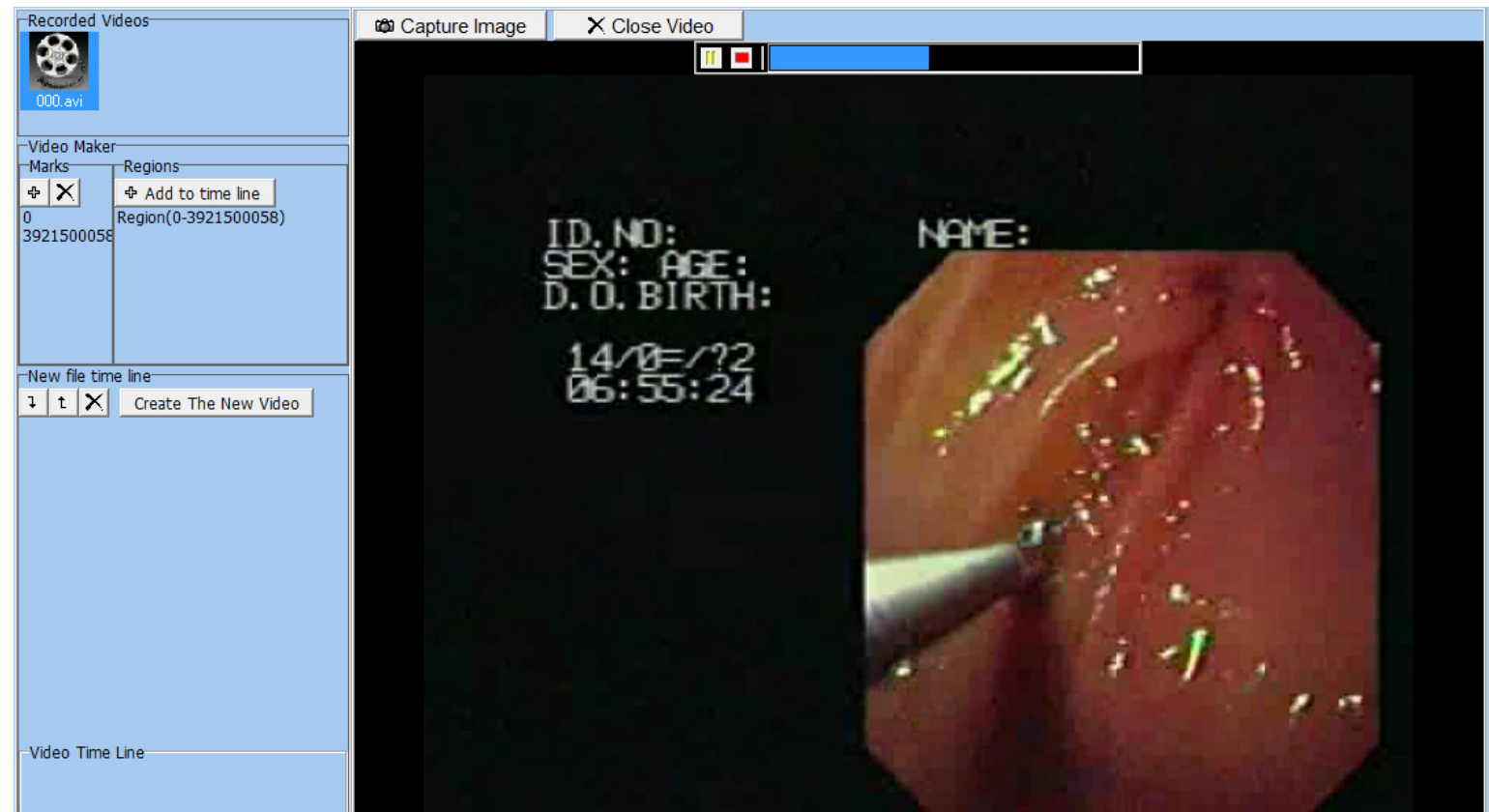


## Study Window (Videos page)

The third page of the study window is “Videos” page which contains the recorded videos of the study, the available videos listed on the top left list selecting a video file will load it in the working area. the top bar contains the button “Capture Image” to capture a still image and add it to the study images, and the button “Close Video” will close the current playing video. the video player tool bar contains the play/pause button, the full screen button, and the progress time line

The left area on the bottom of the videos list is a video editor tool box

You can make marks on the video time line, these marks creates regions the regions can be cut and/or merged to make a new file





## Study Window (Typing Report page)

The fourth page of the study window is “Typing Report” page in which you can write the study report

The list on the left contains the pre saved templates in “Report Templates” settings, double click the template will load it. The top tool box contains the word processing functions. After finishing the report press

“Report” to open the preview and start add images to the report if needed

Report Templates

**B** / **U** | [List Icon] | [List Icon] | [List Icon] | [List Icon] | [List Icon] | 0 | clBlack | Report

colon  
EGD  
EUS

**INDICATION**  
Epigastric pain - R10.13 Abdominal findings on diagnostic imaging of liver and biliary tract - R93.2  
Dilated intra and extrahepatic ducts - R93.2

**CONSENT**  
Informed consent was obtained from the patient after providing any opportunity for questions

**PREPERATION**  
EKG pulse, blood pressure and oxygen saturation monitored

**INSTRUMENT**  
Linear, UC30P, 180118

**ANESTHESIA**  
As per Anesthesia

**PROCEDURE**  
The Gastroscope was gently passed through the incisoral orifice into the oral cavity and under direct visualization the esophagus was intubated. The endoscope was passed down the esophagus, through the stomach and into the Ultra Sound. Color, texture, mucosa and anatomy of Esophagus, Stomach and Duodenum were carefully examined with the scope The patient tolerated the procedure well and there were no complications. After completion of the examination, patient was transferred to the recovery room

**Common Bile duct**  
8mm proximally to 7mm distally without retained stones or sludge

**Pancreas**  
Head of pancreas without calcifications, mass or lymphadenopathy. Duct about 4mm No celiac lymphadenopathy. Limited views of body and tail of pancreas because of significant hiatal hernia and shadowing foreign object

**Stomach**

## Study Window (Typing Report Preview)

The “Free Typing Report Preview” window contains the report and the list on the right contains the available images, double click an image will add it to the report. If the images radio group index is “Right to text” the images will be added on a column right to the text, other index “Down to text” the images will be added as a row down to the text.

The tool box on the top contains

The control of the objects, you can select images to delete, also control the dimensions of the images

Press the button print to print the report to the selected printer

The screenshot displays a software window titled "Free Typing Preview Window". The window is divided into several sections:

- Toolbar:** Includes buttons for Pan, Select, Delete, Print, and a printer selection dropdown (CutePDF Writer). It also features a radio group for "Images" with options "Right to text" and "Down to text".
- Dimensions:** Fields for Left, Top, Width, and Height, each with a value of 10 and a small square icon.
- Report Content:**
  - INSTRUMENT:** Linear, UC30P, 180118
  - ANESTHESIA:** As per Anesthesia
  - PROCEDURE:** The Gastroscope was gently passed through the incisoral orifice into the oral cavity and under direct visualization the esophagus was intubated. The endoscope was passed down the esophagus, through the stomach and into the Ultra Sound. Color, texture, mucosa and anatomy of Esophagus, Stomach and Duodenum were carefully examined with the scope The patient tolerated the procedure well and there were no complications. After completion of the examination, patient was transferred to the recovery room
  - Common Bile duct:** 8mm proximally to 7mm distally without retained stones or sludge
  - Pancreas:** Head of pancreas without calcifications, mass or lymphadenopathy. Duct about 4mm No celiac lymphadenopathy. Limited views of body and tail of pancreas because of significant hiatal hernia and shadowing foreign object
  - Stomach:** Small to moderate amount of retained food in the stomach with J-shape
  - IMPRESSION:** Dilated common bile duct Gastroparesis - K31.84 Limited views of body and tail of pancreas Diaphragmatic hernia without obstruction or gangrene - K44.9
  - PLAN:** Follow up in clinic Low residue diet Acideblockade
- Image Gallery:** A vertical list of three images with the label "Double click image to add to report or press" and an "Add to report" button. The images are labeled "000.tif", "001.tif", and "002.tif".
- Thumbnail Strip:** A horizontal row of four small image thumbnails at the bottom of the report area.
- Signature:** A line labeled "Signature" at the bottom right of the report area.

## Study Window (Adding files to the study)

From the right tool bar of the study window press the button “Files” to open this popup in which you can add stored files to the study

“Open” button will open the browse file dialog to select file(s)

The selected file(s) will be arranged on the grid view

“Delete” will remove the selected file

“Delete All” will remove all images

“Add” will add the selected file to the study

“Add All” will add all images to the study



## Study Window (Make CD)

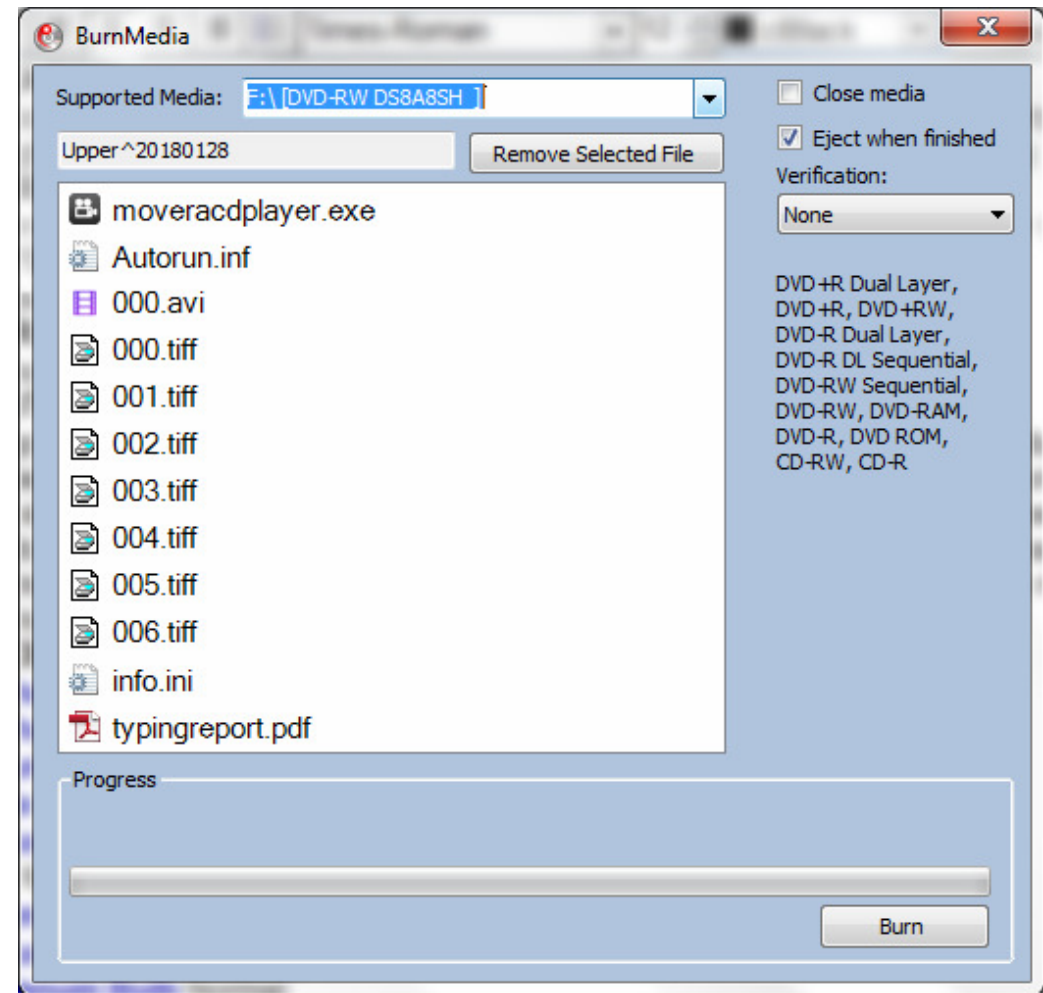
From the right tool bar of the study window press the button “Make CD” to open this popup in which you can make a CD contains the study files and a viewer

The top dropdown determine the CD device to be used

The files listed below (images, videos, and report)

Select a file and use “Remove selected file” to delete

At last use “Burn” to start burning process



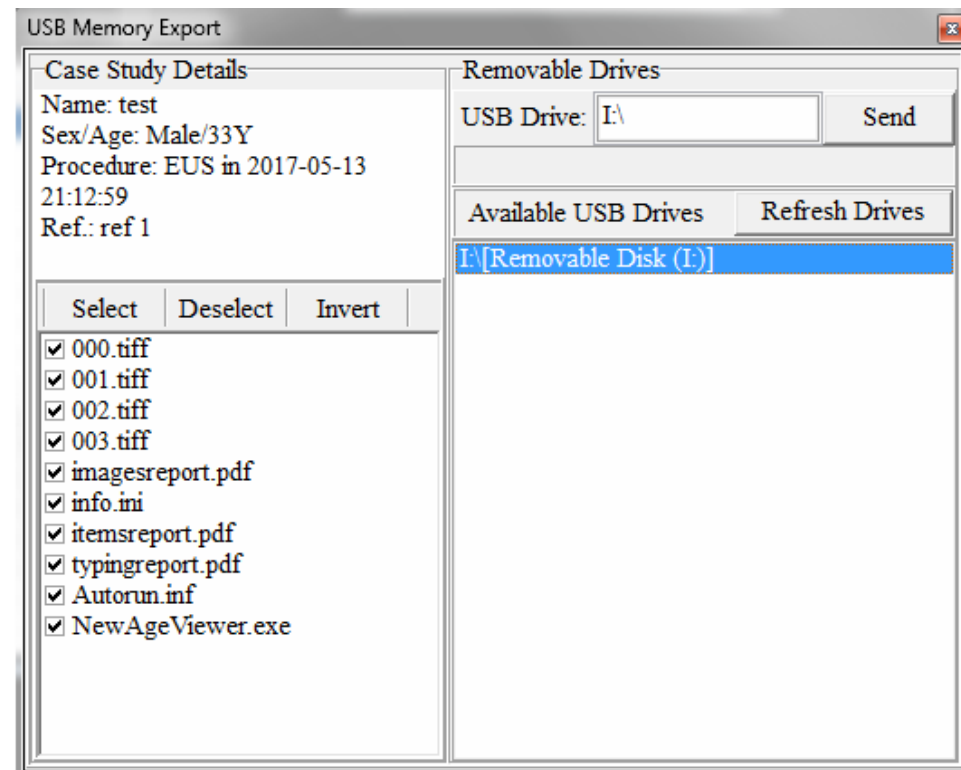


## Study Window (Export to Flash Memory)

From the right tool bar of the study window press the button “USB” will open this window to export the study files to a USB flash memory. The right part shows the available USB flash memories plugged to the PC, select the target will fill the top text box with the drive letter

The left part shows the available study files, you can select and/or deselect files for burning process

Finally press “Send” to start the exporting process



## Study Window (Dicomizer)

From the right tool bar of the study window press the button “Dicomizer” will open this window to dicomize the study

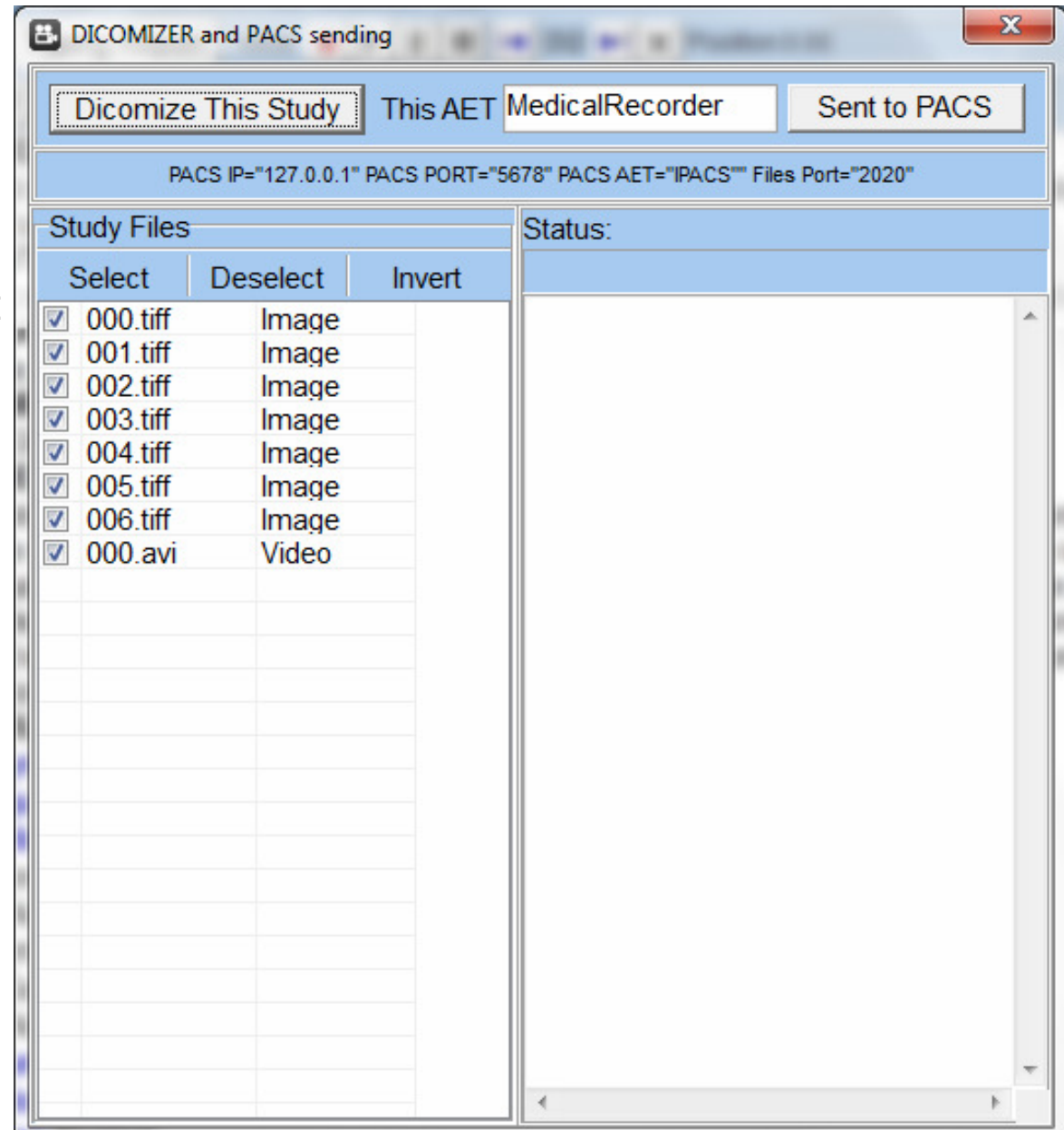
The left part shows the available study files, you can check/uncheck to adjust what to convert

The “Dicomize This Study” button will start the dicomization process

Next to the button the AET of this system this information is used by PACS

Below the button the PACS information, you can change these info from settings window

After dicomization process you can use the top right button to send the dicomized study to the pre-defined PACS





## Followup Window

From the left tool bar of the main window press the statistics icon or from the “System menu” select “Followup” to open this window

In the “Follow up” window you can track parameters result with chart help

On the top left search for patients by UID or name the result will be listed, selecting a patient will list the studies in the top right grid, you narrow the search by dates or study ID, on the bottom right you select a parameter to draw a chart of it's results along the studies

You can print the results, also you can print the chart

The screenshot shows the 'Follow-up' window with the following data:

UID	Name	Sex	Age	Date
0001	test	Male	33 Y	05/13/2017 21:12:20
0053	a	Male	33 Y	06/06/2017 01:54:52

Date Time	Att1	Att2	Att3	Att4	Att5
2017-06-06 01:54...		12H			
2017-06-12 03:25...		10H			
2017-06-18 03:25...		15H			

Selected Item(s):

- Att2
- Att3
- Att4
- Att5

Chart Data:

Study ID	Temp
12	12
10	10
15	15