SC PACS WEB CLIENT (ZPF) USER GUIDE

The intended purpose of the SC PACS software is related to the archiving of medical imaging studies, communication of imaging studies with medical imaging devices, visualization and management of imaging studies, statistics, recording of studies on electronic means and their printing on medical printers.

The biggest consumers of SC PACS are hospitals. SC PACS main purpose is to replace hard film copies with digital images that can be used and seen by several different medical professionals and different medical automation systems simultaneously.

The SC PACS Server contains the image database. The SC PACS Viewer connects to the SC PACS Server through a local area network (LAN) or a wide area network (WAN).

SC PACS is a medical device according Rule 11 of MDR.

SC PACS is produced by Software Company Ltd., Bulgaria.

Address: SOFIA 1407, 9 „Kozyak" street.

Websites: https://novotika.com, www.scpacs.com

SRN: BG-MF-000024466

Basic UDI-DI: 380060000681SCZFP2PQ

Notified body: KIWA CERMET ITALIA

REQUIREMENTS

✓ To start the SC PACS WEB Viewer, your work station requires an up-to-date version of any browser. Software Company Ltd. recommends Google Chorme.

USER INTERFACE

✓ To load the SC PACS WEB Viewer page, you need to type the address of the server and add a slash and scpacs in your browser, for example:
https://192.168.1.1/scpacs

Some software features are determined by the user's access level! Please contact your PACS administrator for further information.

Once the page is loaded, you should see the following window:

- ✓ SC PACS WEB VIEWER is available in Bulgarian and English languages. The language can be selected from the dropdown menu in the top left corner.

- ✓ When this page is loaded, you need to enter your username and password. If you already have a registration for the SC PACS Viewer, you can use your existing log-in details for the mobile version too
- ✓ If you enter a wrong username or password, you will immediately get a notification for "incorrect username or password".

✓ If you have entered your log-in details correctly, the Search window will load:
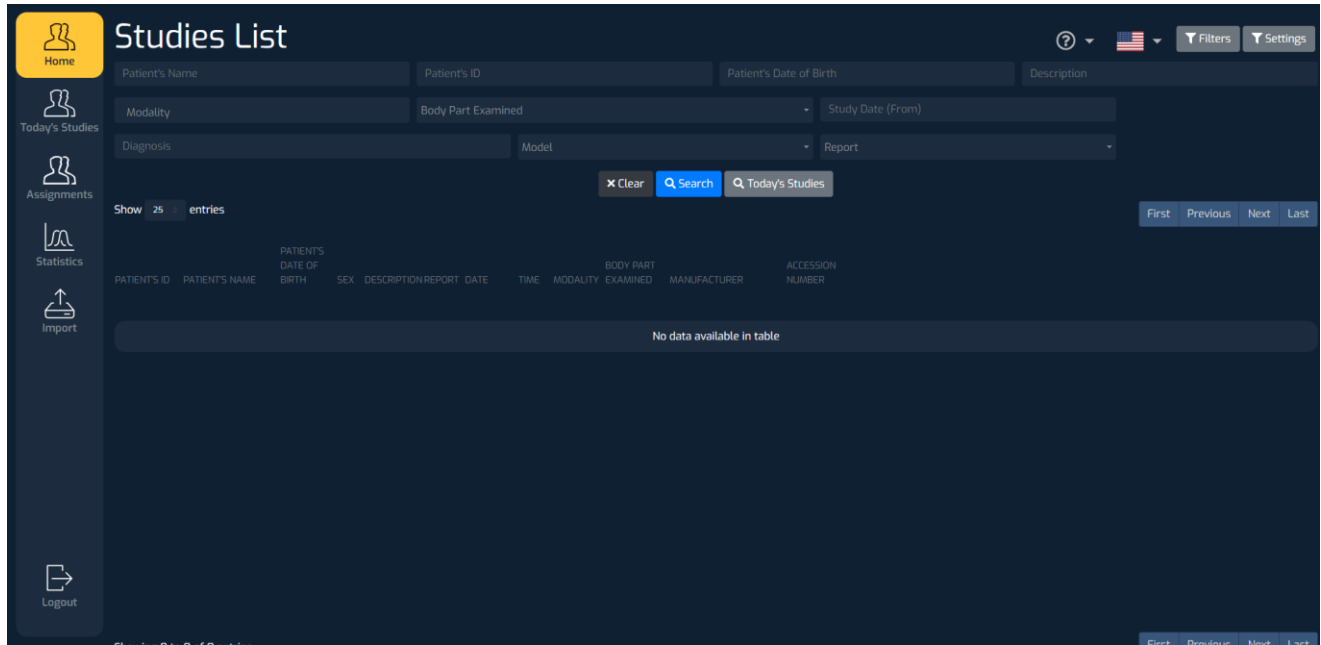
- ✓ Once logged into SC PACS WEB Viewer, you can do a search based on multiple criteria such as – "Patient name", "Patient ID", "Date of birth", "Description", "Modality", "Body part", "Study date" (Today | Yesterday | Last 7 days | Last 30 days | This month | Previous month | For selected period optional From date To date), "Diagnosis", "Department" (that has referred the patient).

- ✓ If the selected search criteria is "Date of birth "or "Study date" (from…, to…, from … to), a calendar will be displayed so that you can select your dates.
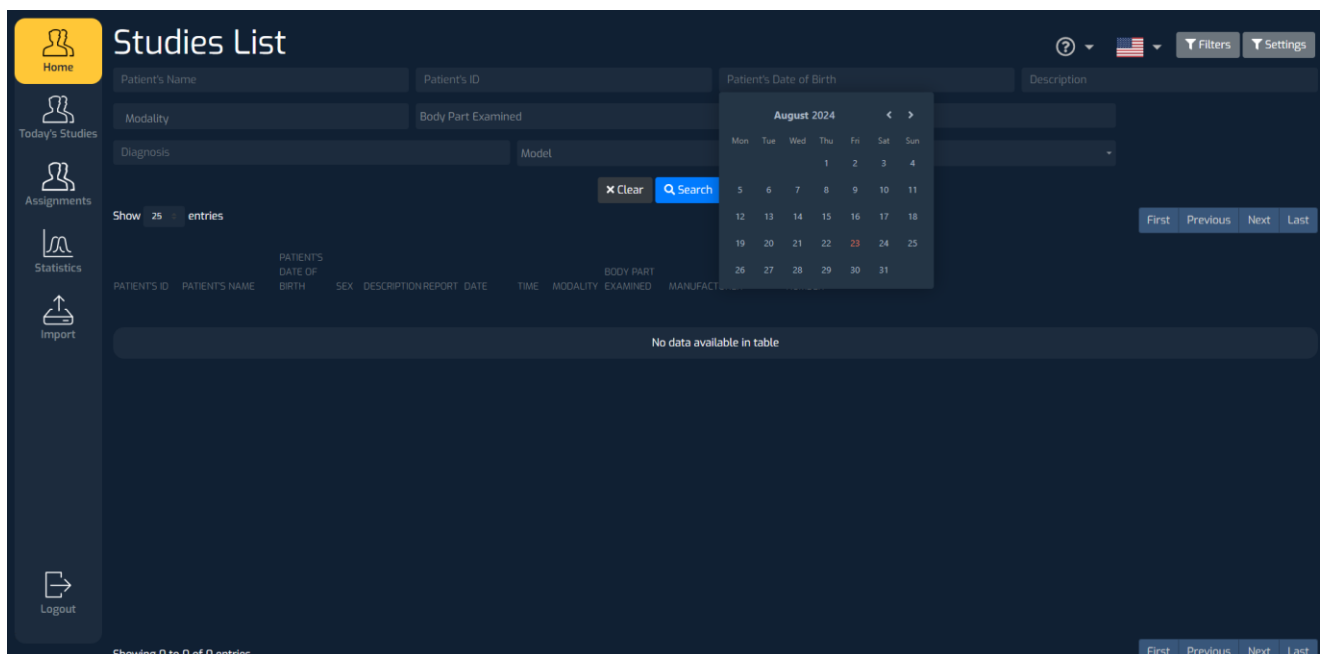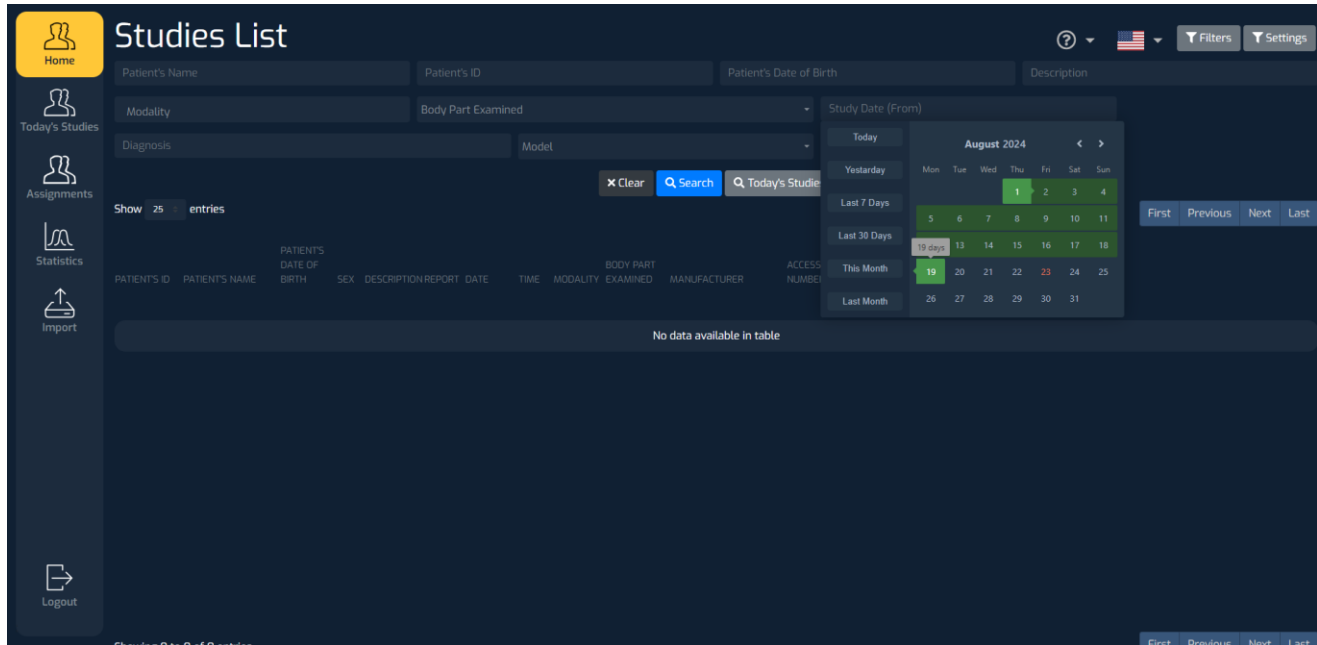
✓ Modality: once this field is selected, you will see a drop-down menu with all available modalities and ECG. From the drop-down menu you can selected the desired modality/modalities or select the first blank option to search all modalities.
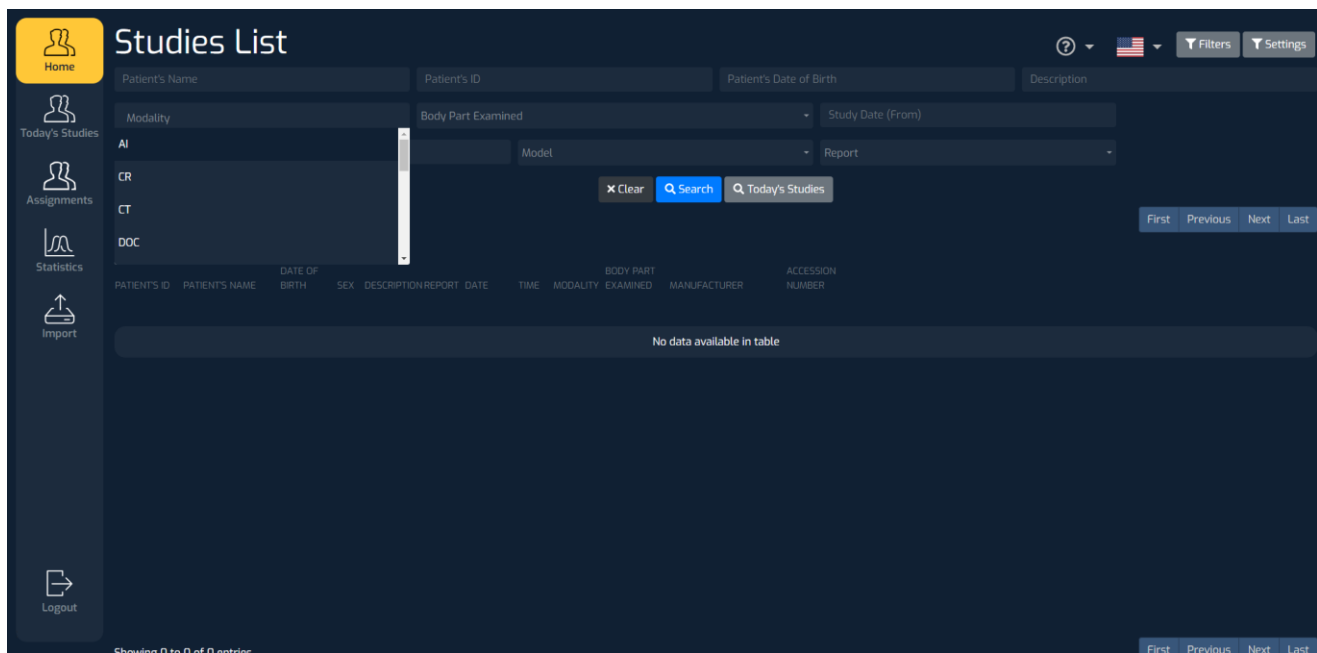

✓ The search panel has three main options:
  ➢ "Search" – searches the database by the selected filters
  ➢ "Clear" – clears the selected filters
  ➢ "Today's studies" - displays the studies done today
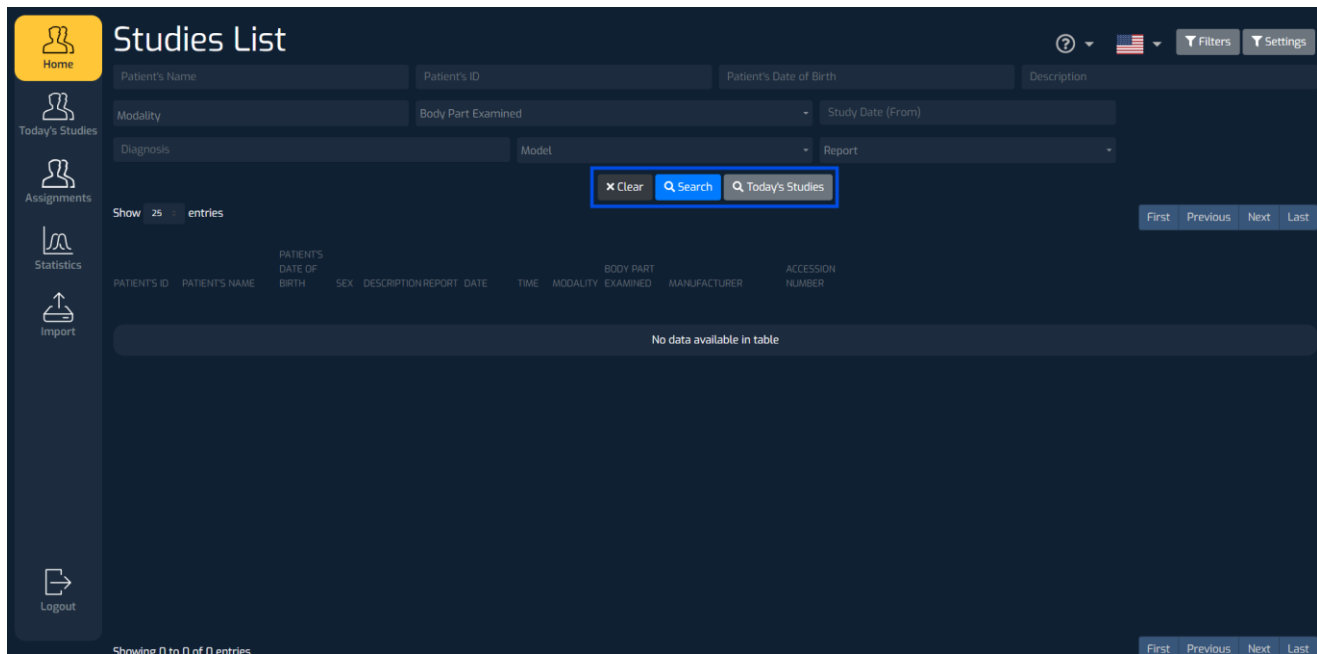
✓ Once you have entered the desired search criteria and hit "Search", you will get the relevant studies as results:
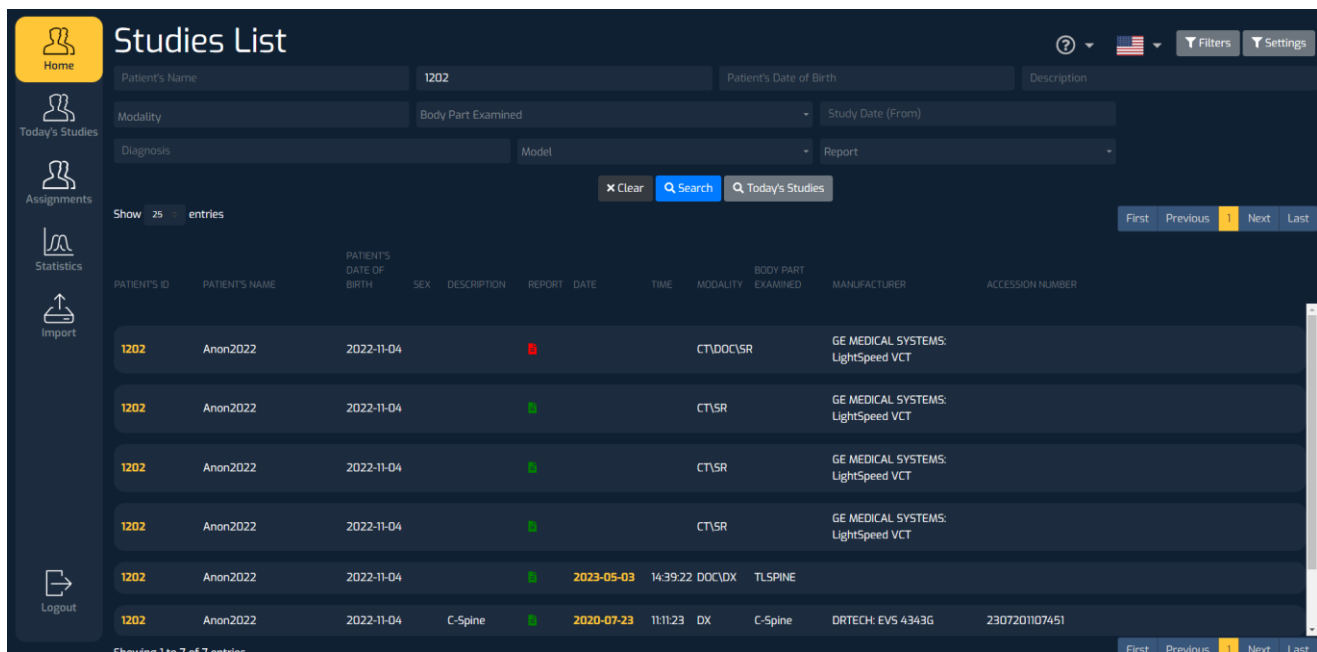
✓ Now you have two options to select and view patient studies:
  1) Click on "Patient ID" – this will open all studies for this patient
  2) Click on "Date" – open a specific study
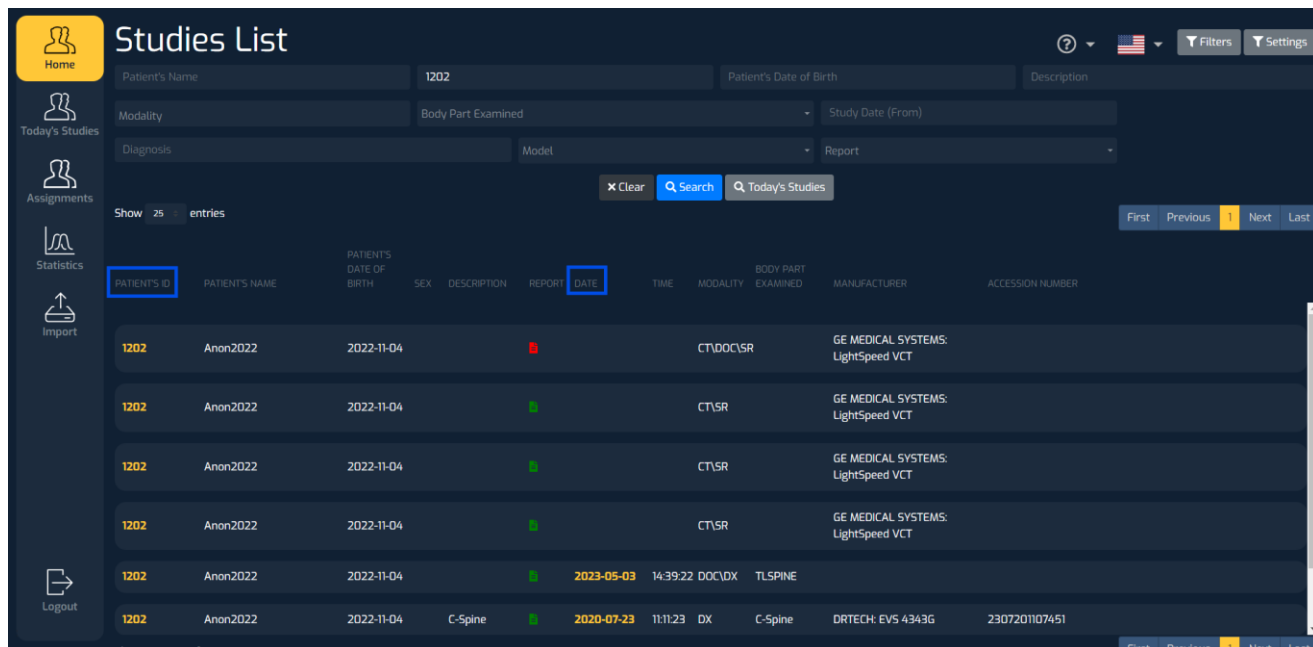
Note: SC PACS Web supports VOI Lut

✓ Once the study is open, the window below will be display its first image:
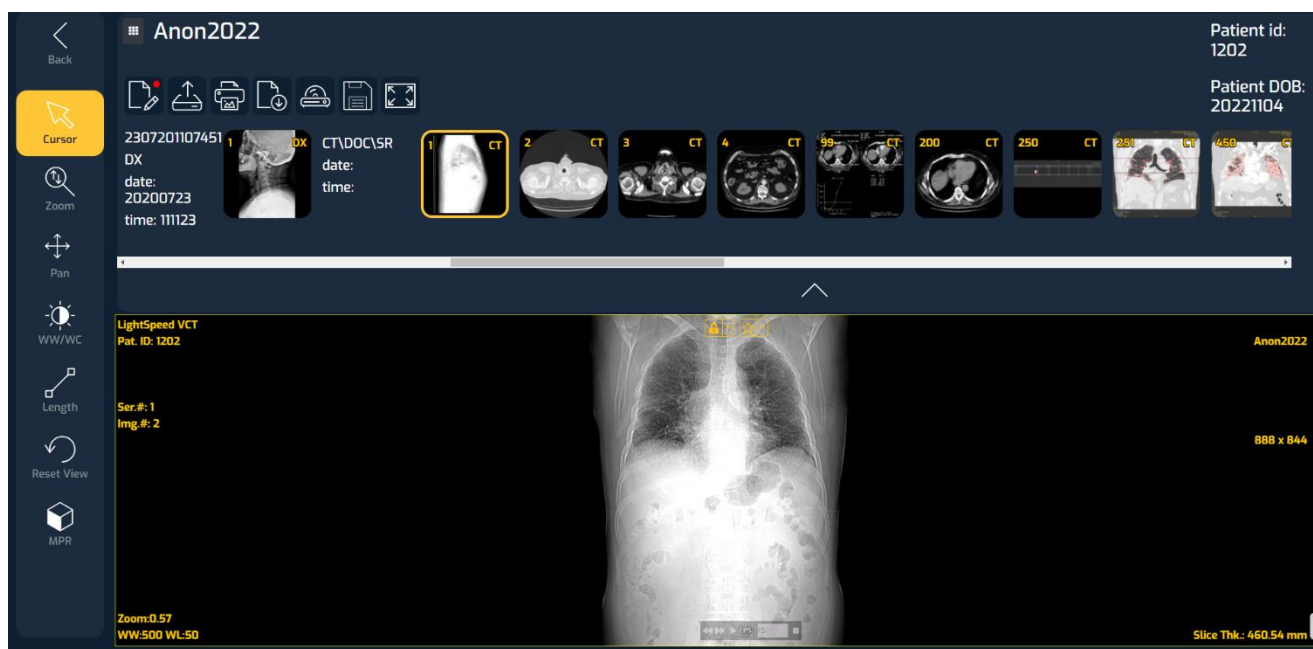
✓ The study series will be displayed on the left hand side if you have opened the study from the column "Date". If you have opened the study from the column "Patient ID", you will see all studies and their series for this patient again on the left hand side.
✓ Via the section "Series", you can select a multiple-series view of this study and customize this multiseries view. Once in "Series", you can choose the number of row and columns you want to see

by clicking on the buttons under the numbers to activate the split screen

Note: in the multiseries view you can load the series in the main window either by **dragging** them to this window or by clicking on the series

✓ Once you have selected the type of multiseries view, you should select the series you would like to see. To view each series separately, you should place the mouse pointer on top of it and scroll (using the mouse scroll). The white rectangle on the bottom of the image shows where this image is compared to the rest of the study:

✓ Possibility of using reference lines, when reviewing two series of the patient study:
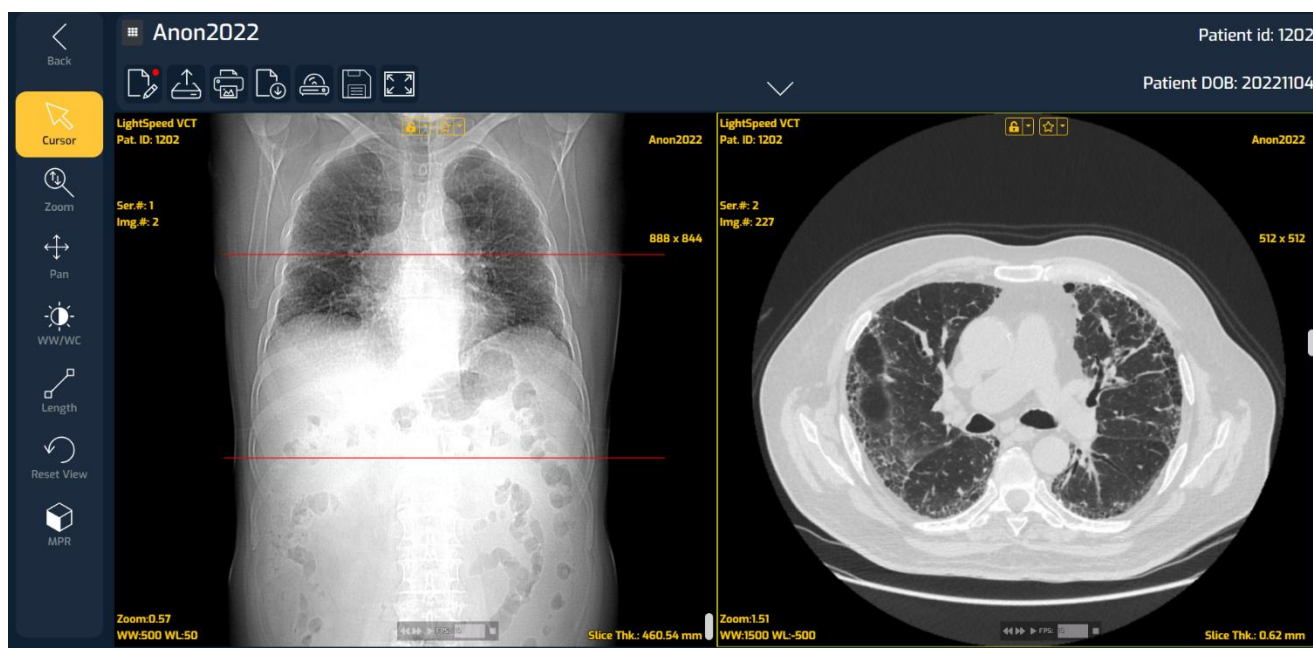
✓ In the left part of the screen there is a set of tools available with which the users can annotate or process images:
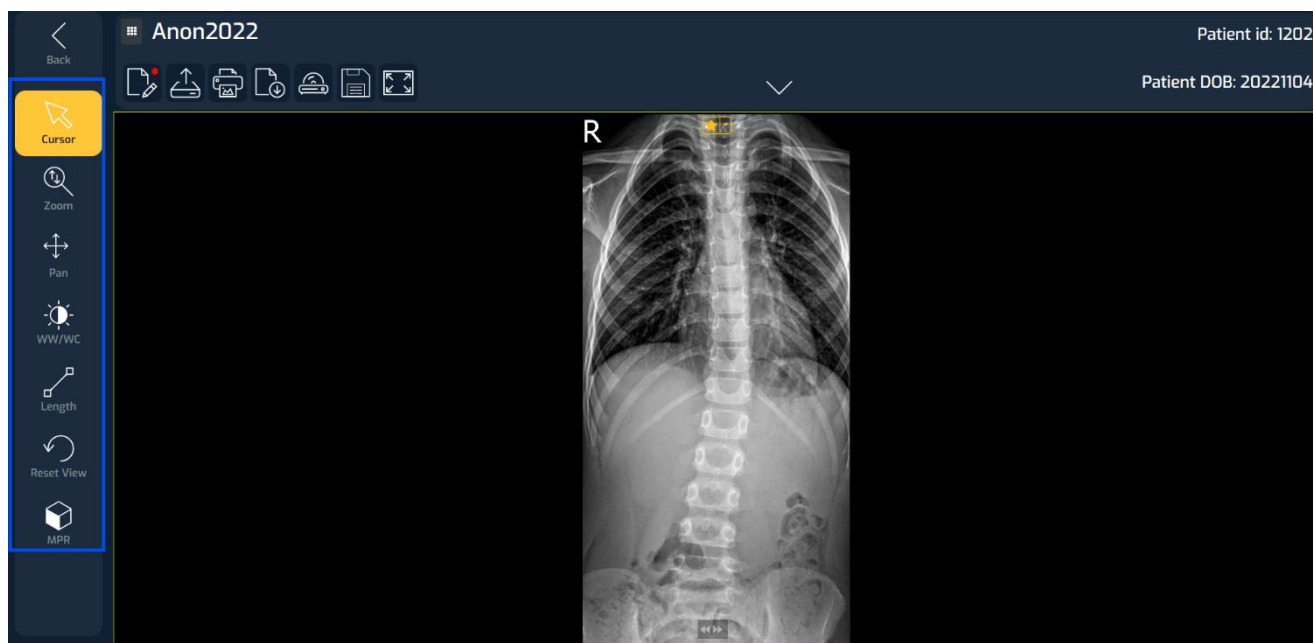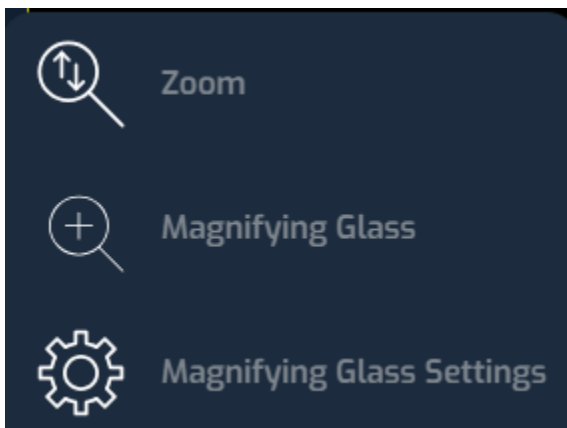
ANNOTATION AND IMAGE PROCESSING TOOLS

- Invert color – this tool is used to invert the colors of the image

- Rotate left – image rotation 90⁰ to the left

- Rotate right – image rotation 90⁰ to the right

- Horizontal flip - flips the image horizontally

- Vertical flip - flips the image vertically

- Zoom in/ zoom out – to use this tool, the user should left-click on the magnifying glass and scroll up or down using the mouse scroll wheel

- Magnifying Glass – to use this tool, the user should left-click on the magnifying glass and then click on the image

- Magnifying Glass Settings– shows a dialog where the user can set the Magnification Level and Magnification Glass Size
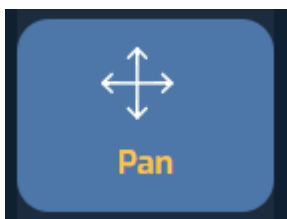
- Pan (Move) – this tool can be used to move the image. Once this tool is selected, the user should left-click on the "Move" icon and move the mouse in the

- WW/WC - this tool is used to adjust the contrast level of the image; once selected, the user should left-click and move the mouse up or down, or select from the pre-determined contrast levels in the drop-down menu

You can manually enter pre-defined parameters of the window:
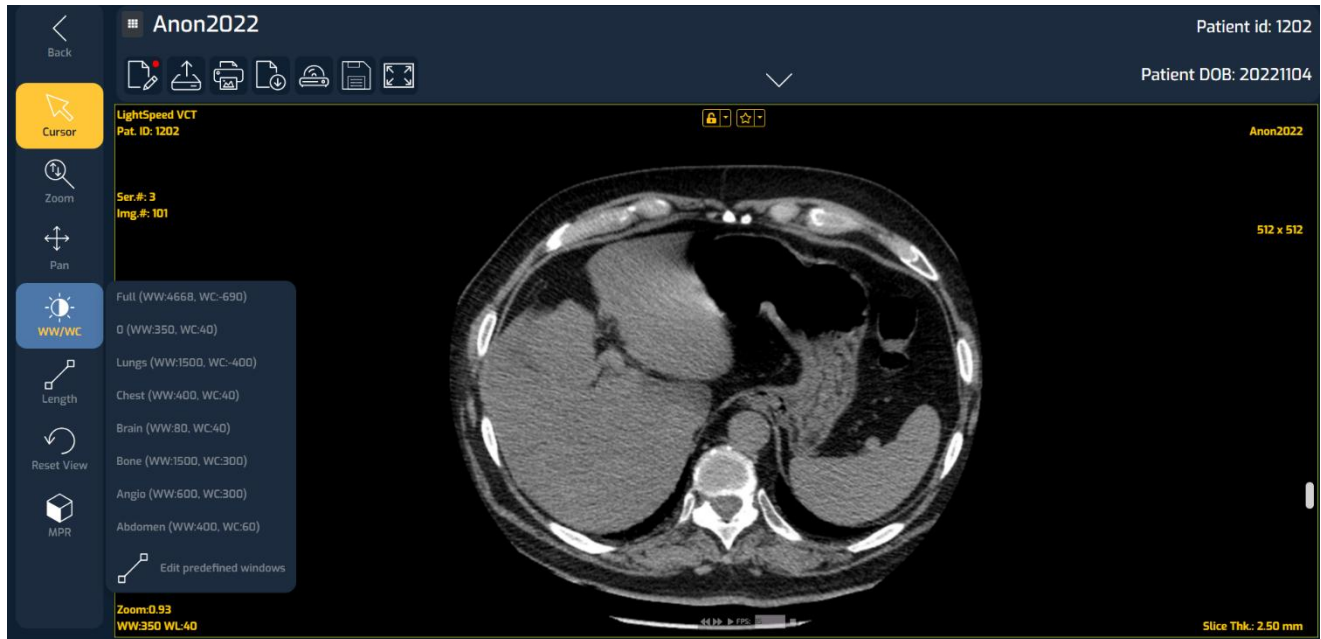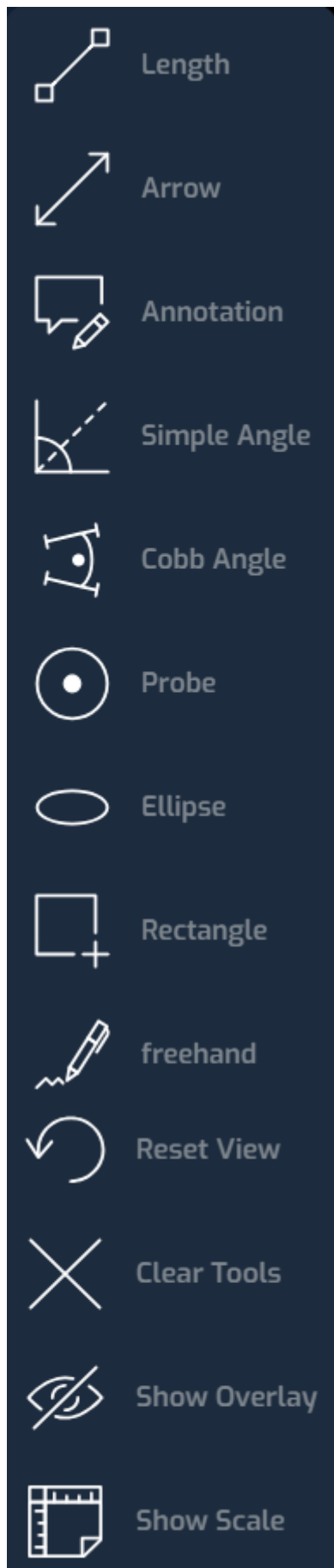
- Length – this tool can be used to measure lengths

- Arrow – this tool can be used to draw an arrow on the images

- Annotation – this tool can be used to add comments

- Simple angle – to draw and measure simple angles

- Cobb angle - to draw and measure Cobb angles

- Probe (Density meter) – to measure density based on one pixel and display information on the pixel value and density

- Ellipse – draws an ellipse and provides information on area, mean and standard deviation

- Rectangle - draws a rectangle and provides information on area, mean and standard deviation

- Random Shape - Draws a random shape and provides information on area, mean and standard deviation

- Reset view – restores the image view to its original state (including contrast, size and position)

-Clear toolbar – removes all used tools (annotations, lines, etc.)

-Show overlay – shows/hides patient data, icluding patient ID, National Identification Number, date of birth, study date

- Show scale – shows/hides horizontal and vertical scale on the image

- MPR. After selecting a study by dragging or clicking in the left panel, you can display it in axial, coronal or sagittal planes.

- Reconstruction in Axial

- Reconstruction in Corronal
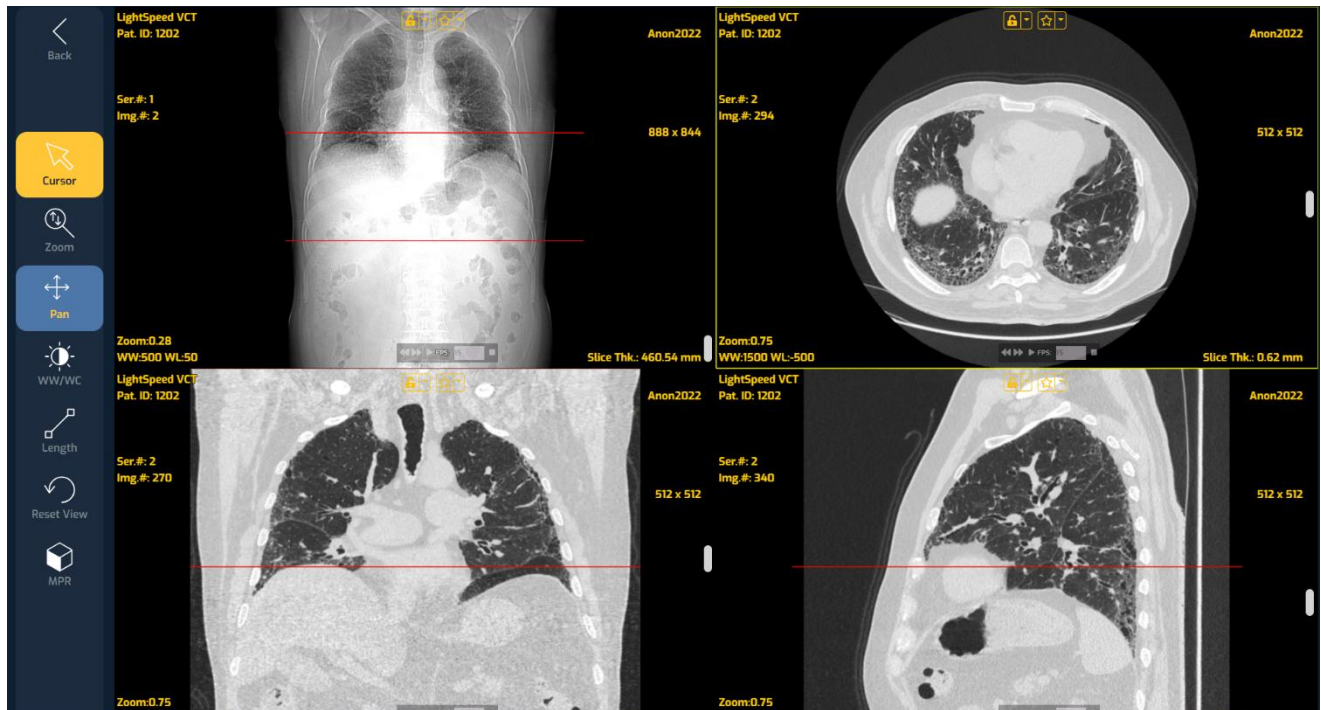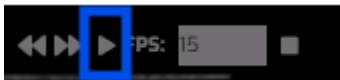
- Reconstruction in Sagittal

-MIP

-MinIP

-AvgIP

-Settings slice MIP/MinIP/AvgIP
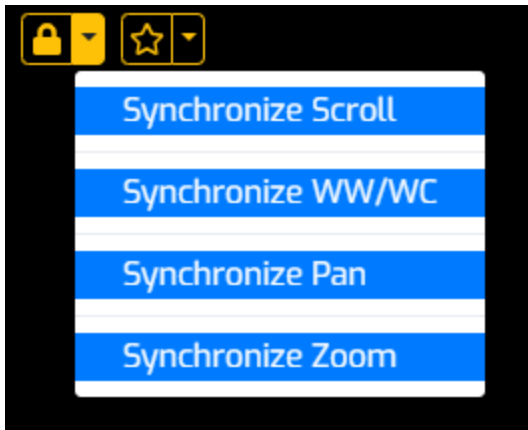
-Reset

- Switch to next series buttons

-Play – mainly used for angiographic studies and it can be used to play the series as a video clip; can be used to play series from other modalities with multiple images
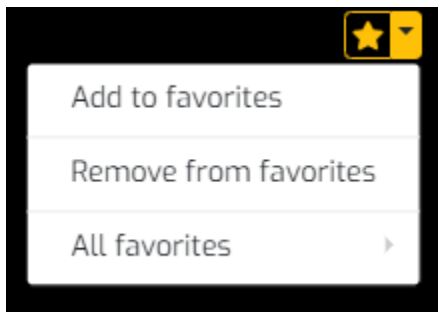

- Adjust the number of frames per second

- Stop – stops the video that is playing

- Synchronous viewing of two series at the same time. You need to lock this icon from the multi-serial view and view the images by scrolling with your mouse for both series at the same time.

-Add favorites

-Remove from favorites

-All favorites

Add favorites

-Create Report
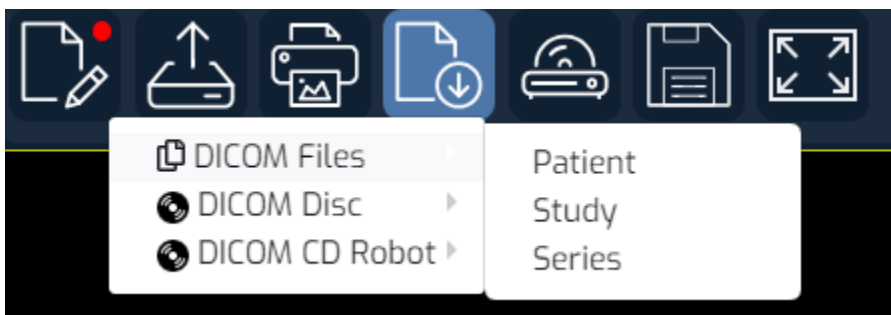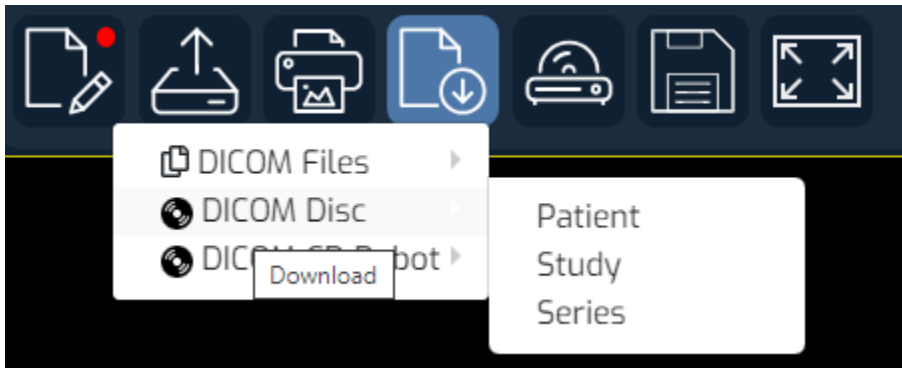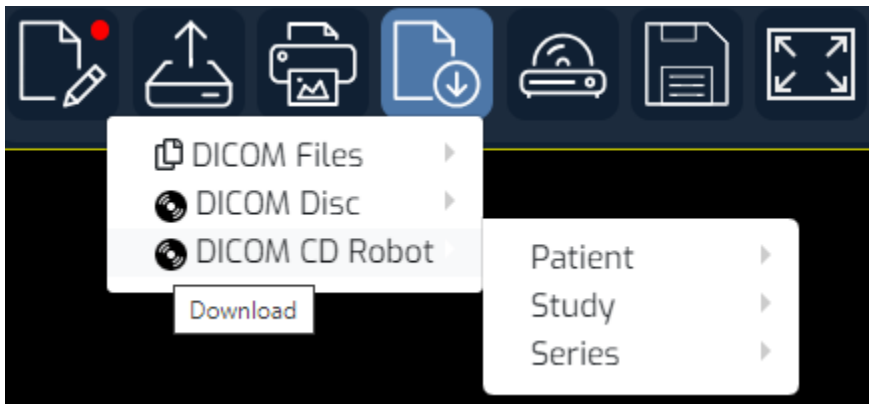

- File upload

- Print the current image of an office printer

- Download of patient data, study, series in DICOM format on the local computer on which SC PACS Web viewer is open
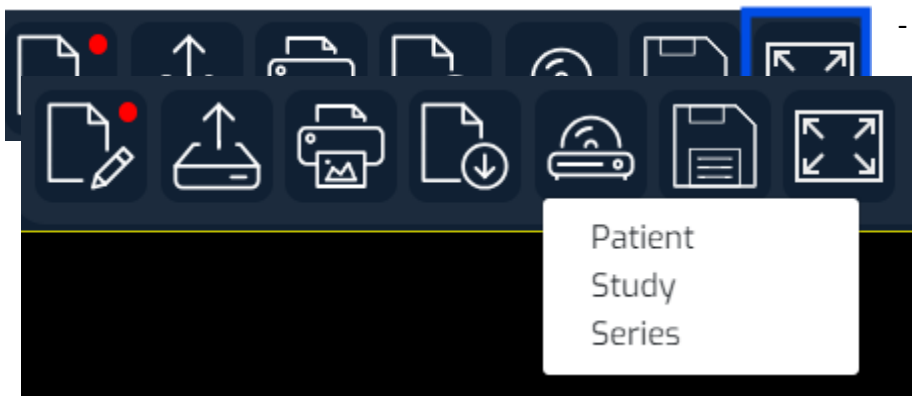
\- Download of patient data, study, series in DICOM format on the local computer on which SC PACS Web viewer is open with CD Viewer view on of the downloaded study

-DICOM send on patient data, study, series to DICOM CD/DVD medical device

\- Save as .avi file

\- Full screen

\- Assign to another user – this tool can be used to send a patient/study/series to an existing SC PACS user or as an email for a consult or any other   task

When you choose one of the options for sending data, you are shown the following screen:

In this screen:
- ➢ "New user" – this option allows the user to send a link with the patient images via email to any other user
- ➢ "Existing user" - this option allows the user to send the patient's images to an existing user of the SC PACS system as an assignment.
- ➢ "Message" – this gives the user space to enter text describing the image, purpose of the email, etc.
- ➢ "Days valid" – this allows the user to define the validity of the link with the images / the assignment measured in days.

o   Save the current image as JPEG, with or without patient information:
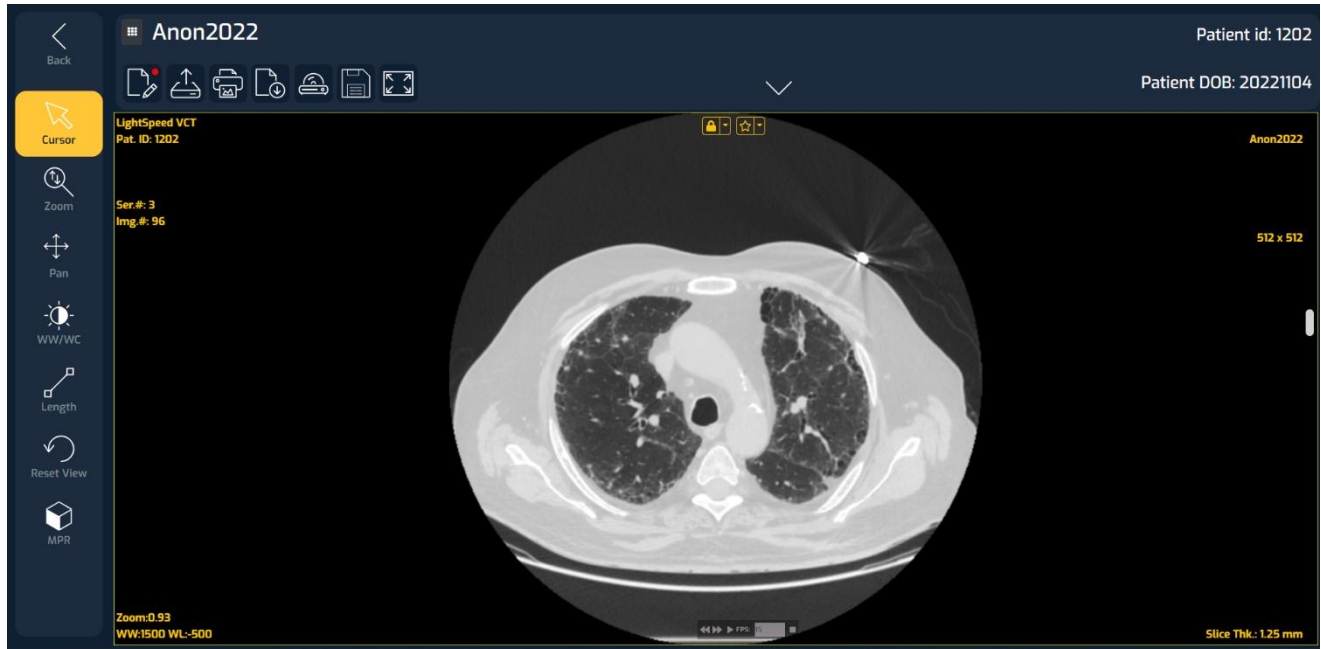
When you right-click on the image, icons are displayed. When you click the floppy disk icon, the image is saved as jpeg. If patient information is displayed, it will be saved in the saved jpeg file.

REPORT

- Clicking on the Report button in the toolbar brings up a new window in which the user can create and save a patient report on the server.

The information to be included in the report is divided into several tables, as follows:

Patient Information about patient includes Patient Name, Patient ID, Date of Birth, Age, Sex, Weight, Size, Phone number, E-mail and Address.

- - Clinic – there are two fields Institution Name and Performing Physician

-Report – this page contains Description field, a possibility the report to be based on a chosen template and a field to write the conclusion:

A microphone icon is displayed in the lower right corner. If you have one, when you click this icon, the Google Speech-to-Text functionality will be activated. At this point, if you speak English, your words will be recognized and written as text.
- Images – here the user can decide whether to include the images in the Patient Report, set the number of columns, set whether to show the images' overlay.
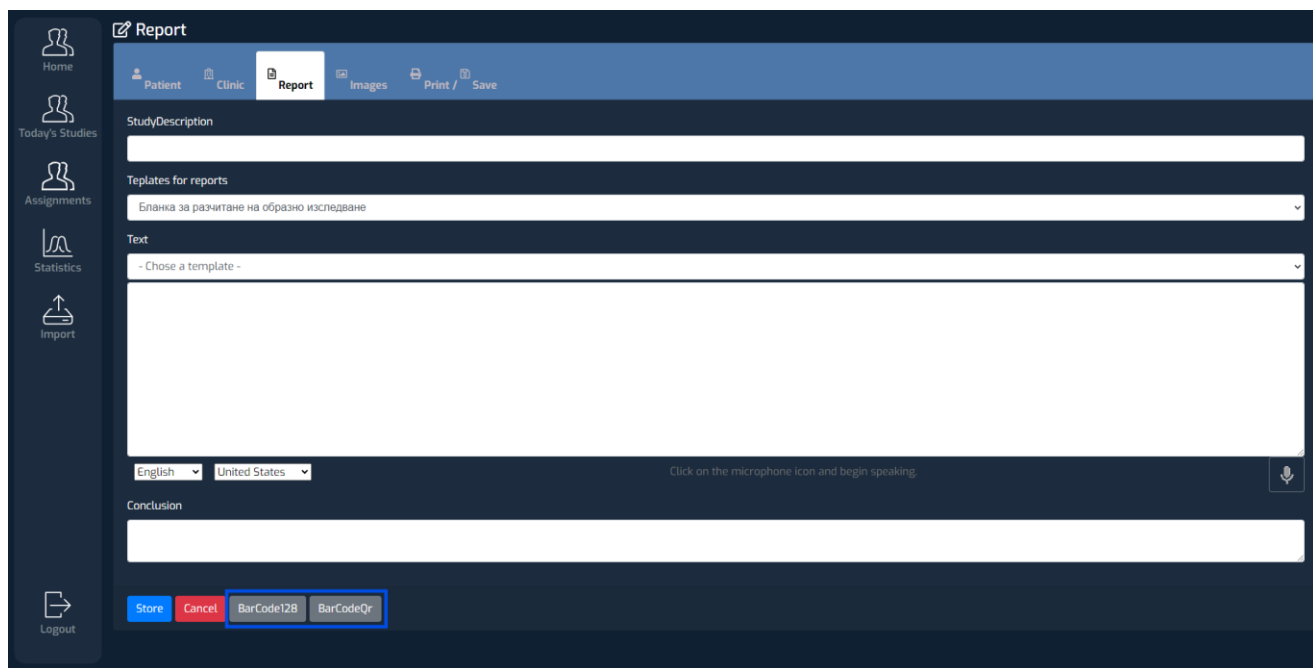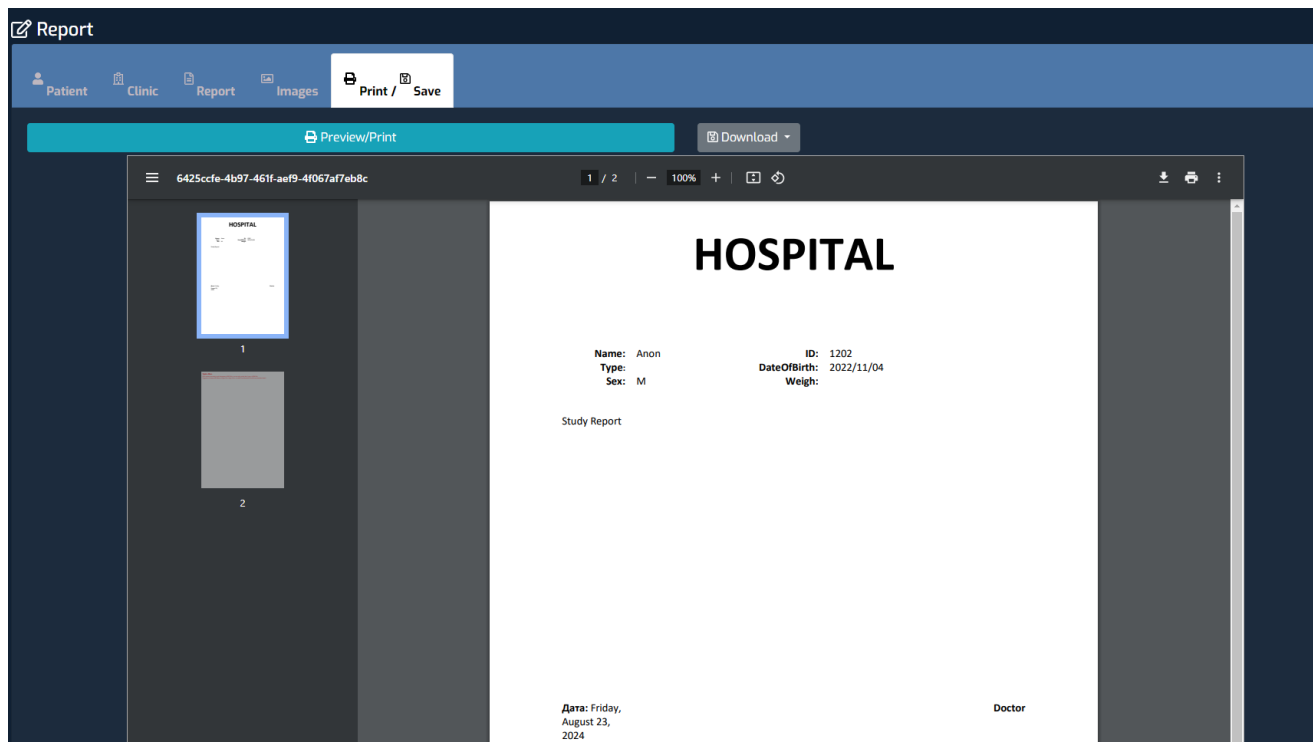

- Print/Save – two buttons are available – Preview/Print and Download
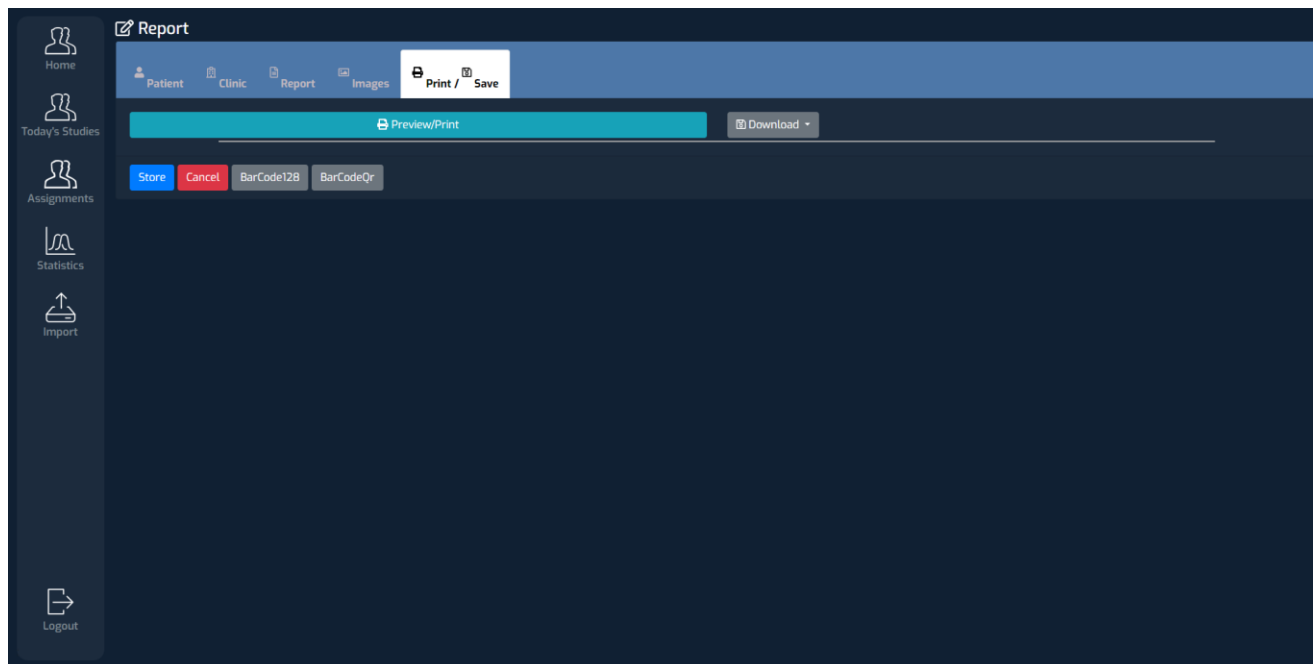
Clicking on the Print/Preview button shows the report in the way it would look prined. It can be sent to the print using the context menu over the report.

In the latest version of the product, buttons for printing Barcode 128 and QR code have been developed.

Clicking on the Download button shows the following drop-down menu:
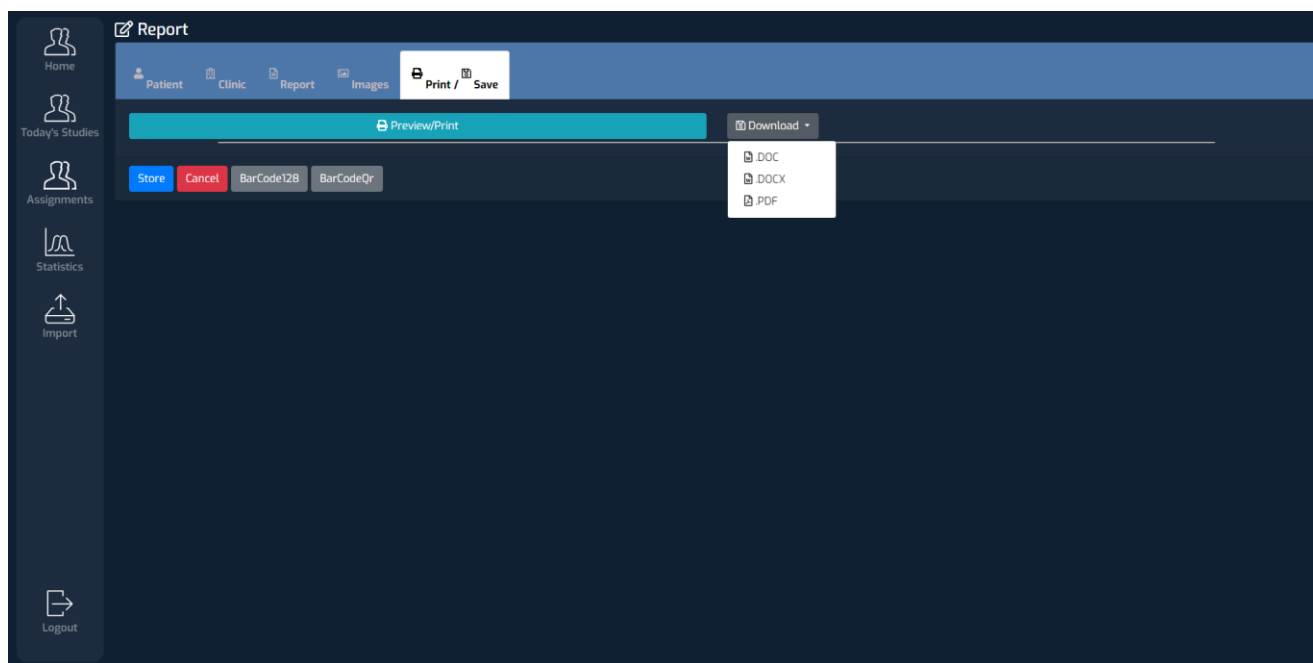
Thus the report could be saved in MS Word or PDF format.

The Store button saves the report to the server. Cancel hides the report without saving the changes and shows the main SC PACS window.

Remarks

✓ When using annotations/notes - any of them can be removed via the menu - Clear tools on the left.

✓ If you want to open another series, just select it from the top box.

✓ On the left side of the screen there are buttons to facilitate work, as well as the button to exit the system:

✓ Home – returns the user to the home position (list of studies).

✓ Today's Research - shows all the research of the day.

✓ Received studies – assigned studies (sent patients from other users in the SC PACS system).

✓ Statistics - statistical reports on the research done.

✓ Import – import DICOM images into the PACS system.

✓ Logout – logs out of the system with the logged in user.

✓ Help – when pressed, the following menu appears:
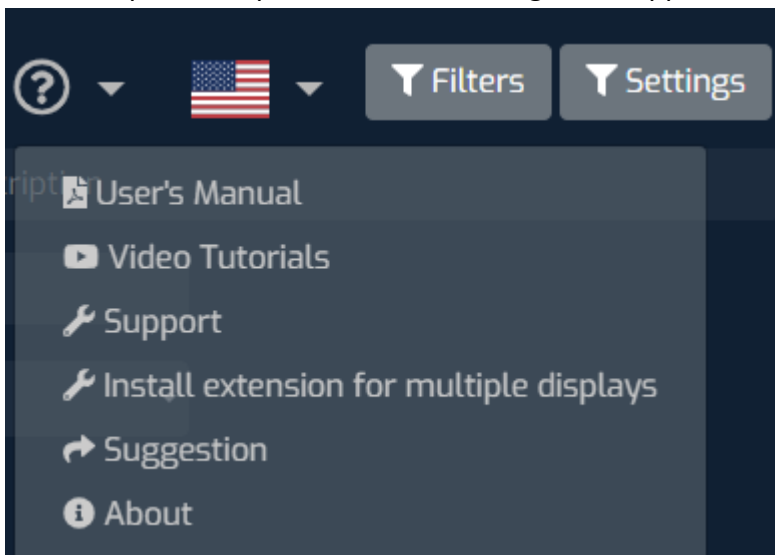
- User's Guide - selecting this option displays the SC PACS User's Guide
- Videos - links to SC's YouTube channel
- Support - refers to a connection via TeamViewer with the support team
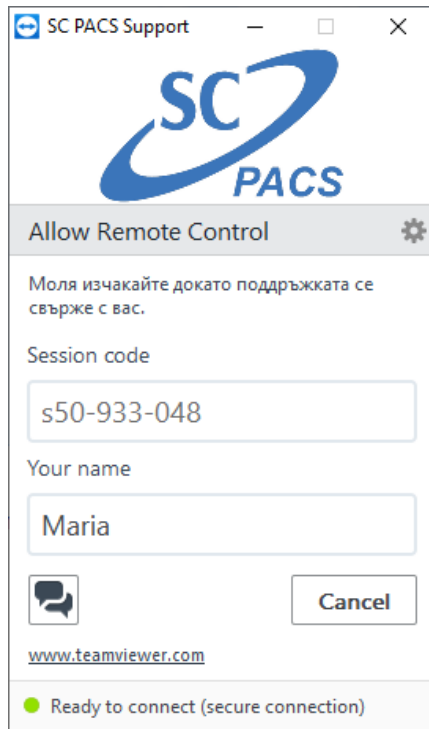
- Install extension for multiple displays - this option appears if you are working with more than one monitor. When selected, a plug-in is installed that allows the image to be stretched on two monitors. After installing the plugin, the menu will look like this:
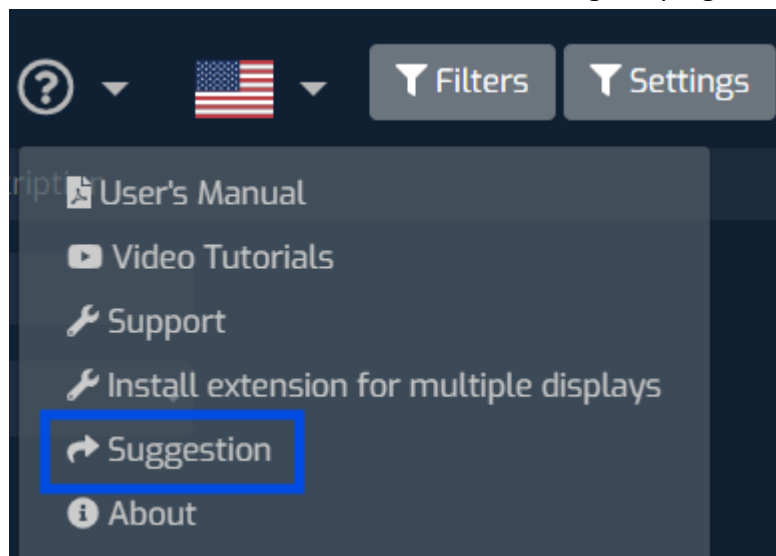
- Suggestion - selecting this option opens a screen where you can put your suggestion and send it to SC PACS support:

Users | Groups | Stations | Report Templates | Routing rules | **Suggestions** | Settings

+ Suggestion

Hospital:

Hospital

City:

City

Subject:

Subject

Message:

Message (required)

Files:

Choose Files | No file chosen

Save

Studies List

Home
Today's Studies
Assignments
Statistics
Import
Logout

? | Filters | Settings

Patient's Name | Patient's ID | Patient's Date of Birth | Description

Modality | Body Part Examined | Study Date (From)

Diagnosis | Model | Report

✕ Clear | 🔍 Search | 🔍 Today's Studies

Show 25 entries

First | Previous | Next | Last

PATIENT'S ID	PATIENT'S NAME	PATIENT'S DATE OF BIRTH	SEX	DESCRIPTION	REPORT	DATE	TIME	MODALITY	BODY PART EXAMINED	MANUFACTURER	ACCESSION NUMBER
				No data available in table							

First | Previous | Next | Last

Showing 0 to 0 of 0 entries