



User Manual

PRAEVAorta® Web

(Version for healthcare professional)

Software as a Medical Device

Version: v2.0.X¹

¹ X correspond to the number of patches. X is varying.

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1 HISTORY

Revision	Modifications	Date
0	Creation	21/04/2022
1	Update functionalities	20/10/2023
2	Change figure 8 and 9, label add drag and drop folders and DICOMDIR management CC-2024-03	09/02/2024
3	Change the label, Add two sections in the Upload button: anonymization and hospital information configuration according to CC-2024-13	29/11/2024
4	Update Export measurement data content and label image	24/02/2025
5	Update dashboard metrics content and label image according to CC-2025-05	05/06/2025
6	Reviewed information hierarchy. Improved layout for readability. Added section numbering. Moved Warning to paragraph start. Updated screenshots accordingly. Changed label image	25/08/2025
7	Change images for the column group (customer)	10/09/2025
8	Added new section: Export only patient data without measurement information. Added new page: Error page (404 page). Changed label image.	12/11/2025
9	Update for v1.6.0 according to CC-2026-01: added new filter tabs and patient counters on the Home page, new follow-up evolution chart, patient follow-up management. Changed label image.	15/05/2026
10	Update for v2.0.0 according to CC-2026-04: added new sections (Patient follow-up and merging patient records). Changed label image. Changed UI screenshots for some sections. Correction of UDI-DI in the IFUs according to NC-2026-02	24/09/2026

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2 PRODUCT

2.1 General information

Product Name	PRAEVAorta® Web
Trending name	PRAEVAorta® Web
Product Model / Version	V2.0.X
Classification	I (Regulation 2017/745)
UDI-DI	03770023750011
Product Lifetime	2 years
Manufacturer's Name	Nurea
Manufacturer's headquarters	213 cours Victor Hugo 33130 Bègles, FRANCE
Manufacturing Address	213 cours Victor Hugo 33130 Bègles, FRANCE
Web site	www.nurea-soft.com
Contact e-mail	support@nurea-soft.com

Description of the medical device

PRAEVAorta Web is a web client providing a user interface for communication between users and cloud-based servers. It is intended for transmission, reception, storage, post-process, and display of medical data.

The platform:

- allows the user to send CT scan images for analysis to Nurea's server.
- displays the main indicators (arteries maximum diameter, volume), highlighting ones above a given value, for better patient monitoring.
- download various computation results (report, segmentation, csv measurements, etc.)

Intended purpose

PRAEVAorta® Web is a web client providing a user interface for communication between users and computation servers. It is intended for transmission, reception, storage, post-process, and display of medical data.

Foreseen users and patients

- Vascular surgeons
- Radiologists
- Clinical specialists

Use environment

The software is intended to be used on CT scan images.

Indications for use

- Analysis management
- Communication with computation server
- Display of analysis report and results
- DICOM transmission to computation server for analysis

2.2 Precautions for use

PRAEVAorta® Web should only be used by a health care professional who has been trained in the proper use of PRAEVAorta® Web. The images sent must be in DICOM format. The PRAEVAorta® Web software is intended to supplement, not replace, conventional diagnostic examination of medical image data. No diagnostic or treatment decision should be made solely based on the use of PRAEVAorta® Web.

2.3 Contraindications

Not suitable for other use than CT scan images of the human body containing the aorta.

2.4 Product constitutes

This product is software as a medical device.

2.5 Environment execution

Recommended web browsers:

- Google Chrome version 147 and higher
- Mozilla Firefox version 149 and higher
- Safari 18.6 and higher
- Microsoft Edge version 148 and higher

2.6 Optional accessories

PRAEVAorta® Web requires PRAEVAorta DB to operates. PRAEVAorta DB is a database, which is not a medical device.

3 USER GUIDE

3.1 Preamble

- *PRAEVAorta® Web software is intended to supplement, not replace, conventional diagnostic examination of medical image data. No diagnostic or treatment decision should be made solely based on the use of PRAEVAorta® Web.*
- *PRAEVAorta® Web is advanced medical imaging software and should only be used by qualified and trained persons. Users should be aware of the inherent limitations of digital imaging and familiarize themselves with the software using the user documentation and training materials provided.*
- *The user is responsible for the interpretation of the measurements and other calculations and the use of these results in the findings, regardless of their form (printed, stored, emailed, etc.). The user must effectively communicate the limitations inherent in these findings to untrained or uninformed recipients.*
- *It is the responsibility of the user to ensure that all available DICOM image data for a particular study/series is available and fully loaded into the software before reviewing the data for its intended use.*
- *Nothing in this material diminishes the user's responsibility for good clinical judgment and best clinical practice.*
- *Although PRAEVAorta® Web has been extensively tested for functionality, it cannot be guaranteed to be completely free of defects. It is therefore possible that the software contains defects. Users should be aware of the possibility of errors in areas such as measurements, be aware of alignment marks, etc.*
- *PRAEVAorta® Web has access to confidential patient information. Therefore, access to the system or to patient data must be controlled to prevent unauthorized users from viewing this data.*
- *Do not use PRAEVAorta® Web or the hardware on which it runs if it is damaged or compromised, or if you suspect in any way that its security may be compromised.*
- *PRAEVAorta® Web is not intended to be used as a primary archive for medical imaging data. This means that a secure copy of any data should be maintained in a location separate from the software, for example, in the scanner, in a PACS archive, or on archive media. Please do not rely on PRAEVAorta® Web as your primary archive.*
- *It is imperative that the user has an up-to-date paper version of the user manual at his disposal.*
- *Users shall have been trained to use PRAEVAorta® Web. For PRAEVAorta® Web to work properly, the uploaded images must be CT scans containing the aorta*

3.2 General functions

PRAEVAorta® Web is a client software that provides a user interface.

PRAEVAorta® Web allows a simple access to CT scan analysis for vascular disease.

3.3 Working principle

PRAEVAorta® Web operates under the following principle:

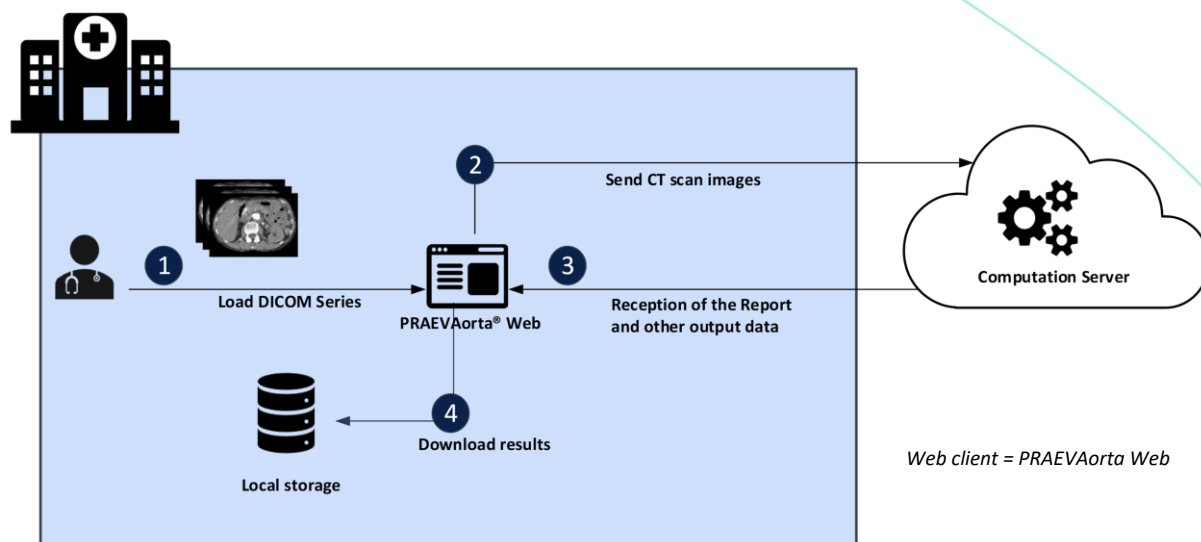


Figure 1: System worksheet

4 PAGES

4.1 Authentication

To access PRAEVAorta® Web, please use the link communicated to you when signing the contract.

You will be redirected to the login page.

This is the first page that opens once you have launched the application. It is mainly composed of a form that will allow you to login to the platform.

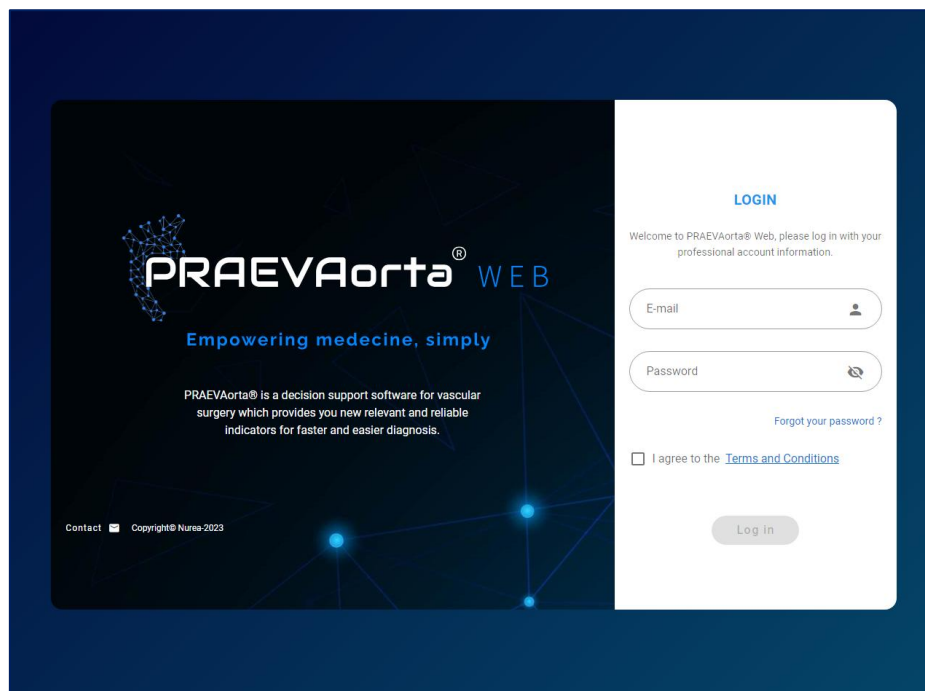


Figure 2: Login page

4.1.1 “Login” information

To log into PRAEVAorta® Web, you will need your username and password. The username is your e-mail, and the password has been given to you when signing the contract.

Enter these login identifiers in the appropriate fields and accept the “Terms and Conditions” by ticking the checkbox to log into the software. Then press the “login” button .

The password must be kept secret and memorized.

If you have forgotten your password or username, please contact us using the “contact” button on the page or the “Forgot your password?” button so that our team can help you as soon as possible. Forgetting your password or username will cause a delay in accessing PRAEVAorta® Web, this could delay the patient care of a potential critical patient.

4.1.2 “Contact” button

The “contact” button  will redirect you to Nurea’s website on a page containing a form. This form will allow you to contact Nurea’s team in order to solve the problem you are experiencing. You can also contact us using the following address support@nurea-soft.com.

4.1.3 “Terms and conditions” button

The “Terms and Conditions” link (terms in blue and underlined) will display on your screen the terms and conditions that you must respect when using PRAEVAorta® Web.

4.2 Navigation

4.2.1 Left Banner

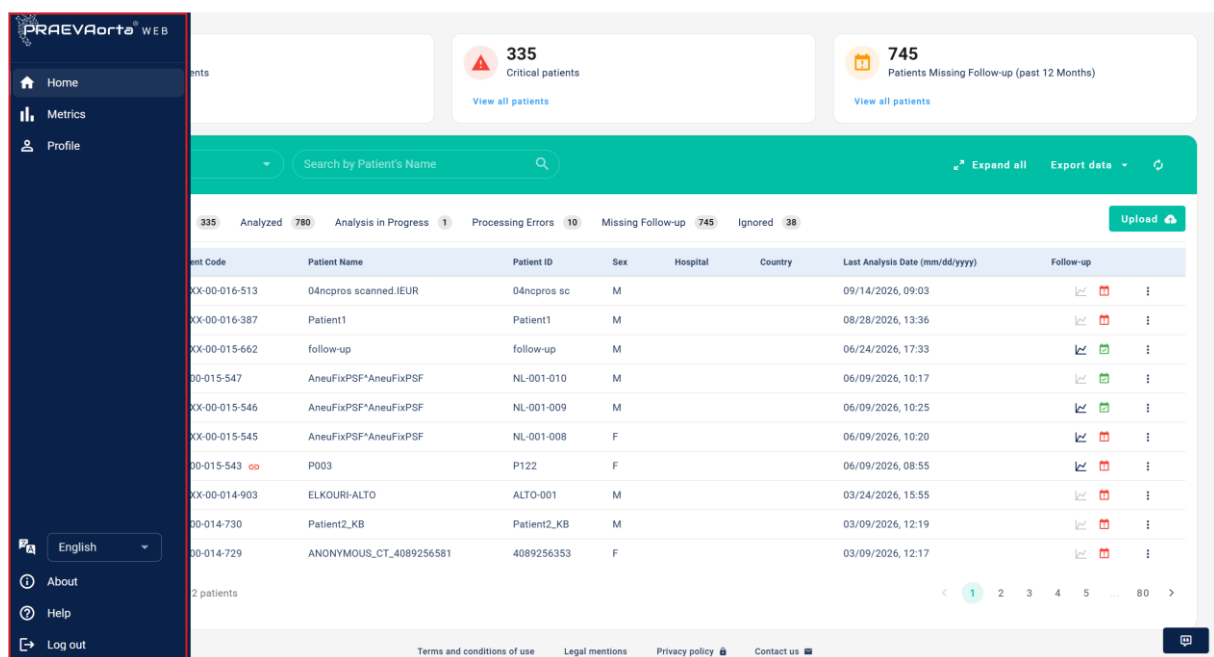


Figure 3: Specification of left banner

The left banner contains all pages of the application and the “Logout” button: it opened when the cursor is on.

By clicking on the different links, you can change pages and therefore content.

The “Logout” button  allows the logged user to logout.

4.2.2 Footer

792

Uploaded patients

View all patients

335

Critical patients

View all patients

745

Patients Missing Follow-up (past 12 Months)

View all patients

Filter by

Patient's Name

Search by Patient's Name

Expand all

Export data

All792

Critical335

Analyzed780

Analysis in Progress1

Processing Errors10

Missing Follow-up745

Ignored38

Upload

	Patient Code	Patient Name	Patient ID	Sex	Hospital	Country	Last Analysis Date (mm/dd/yyyy)	Follow-up
	XX-00-016-513	04ncpros scanned.IEUR	04ncpros sc	M			09/14/2026, 09:03	
	XX-00-016-387	Patient1	Patient1	M			08/28/2026, 13:36	
	XX-00-015-662	follow-up	follow-up	M			06/24/2026, 17:33	
	XX-00-015-547	AneuFixPSF*AneuFixPSF	NL-001-010	M			06/09/2026, 10:17	
	XX-00-015-546	AneuFixPSF*AneuFixPSF	NL-001-009	M			06/09/2026, 10:25	
	XX-00-015-545	AneuFixPSF*AneuFixPSF	NL-001-008	F			06/09/2026, 10:20	
	XX-00-015-543	P003	P122	F			06/09/2026, 08:55	
	XX-00-014-903	ELKOURI-ALTO	ALTO-001	M			03/24/2026, 15:55	
	XX-00-014-730	Patient2_KB	Patient2_KB	M			03/09/2026, 12:19	
	XX-00-014-729	ANONYMOUS_CT_4089256581	4089256353	F			03/09/2026, 12:17	

Show10of 792 patients

<

1

2

3

4

5

...

80

>

Terms and conditions of use

Legal mentions

Privacy policy

Contact us

Figure 4: Specific view the footer

“Terms and conditions” button

The “Terms and Conditions” button will display on your screen the terms and conditions you are committing to using PRAEVAorta® Web.

“Legal mentions” button and “privacy policy” button

The “Legal Mention” button displays the mandatory legal mentions of Nurea. The “Privacy policy” button  displays the privacy policy of Nurea.

“Help” button

The “help” button , displays the help tab. This tab is a succinct explanation of how to use PRAEVAorta® Web but does not substitute the user manual. You can go through the few slides to easily understand the use of PRAEVAorta® Web.

“Contact” button

The “contact” button , will redirect you to Nurea’s website on a page containing a form. This form will allow you to contact Nurea’s team in order to solve the problem you are experiencing.

4.3 Home: list of patients

After logging into the platform with your Nurea credentials, you will be redirected to the home page, as shown in the following screenshot.

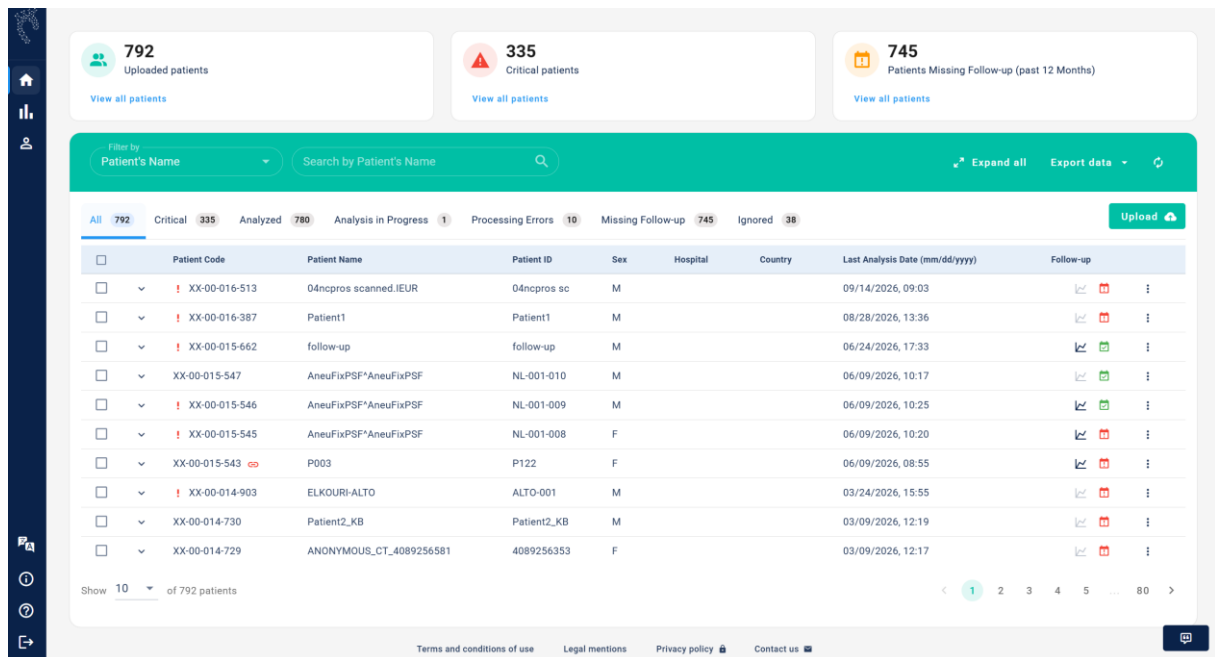
The home page is the main page of the platform, it includes a main view, constituting a table with all the patients and their series that have been treated.

It will allow you to manage patients and their series and associated reports. If you stay inactive for too long your session will be expired and you will have to retry your operation. You will not have to enter your identifiers again so please logout when not using the software.

Please logout after using the software to guarantee data security and mitigate the risk of access to the medical data by a malicious person.

After logging in, the user has access to an intuitive interface. He will find simple management of the registered patient and their analysis results (if the database option has been subscribed, if not, the patient list will be empty at logging). For each patient, the maximum diameter and the volume of the abdominal aorta are displayed with an access to the associated report.

Sending DICOM images series has never been easier with our drag and drop function. Finally, the navigation through the platform is very simple thanks to a system of pagination, search, and filter.



The screenshot displays the home page of the PRAEVAorta® Web platform. At the top, there are three summary cards: '792 Uploaded patients', '335 Critical patients', and '745 Patients Missing Follow-up (past 12 Months)'. Below these is a search bar and a filter dropdown. The main table lists patients with columns for Patient Code, Patient Name, Patient ID, Sex, Hospital, Country, Last Analysis Date, and Follow-up. The table is paginated, showing 10 of 792 patients. At the bottom, there are links for Terms and conditions of use, Legal mentions, Privacy policy, and Contact us.

Patient Code	Patient Name	Patient ID	Sex	Hospital	Country	Last Analysis Date (mm/dd/yyyy)	Follow-up
XX-00-016-513	04ncpros scanned.IEUR	04ncpros sc	M			09/14/2026, 09:03	
XX-00-016-387	Patient1	Patient1	M			08/28/2026, 13:36	
XX-00-015-662	follow-up	follow-up	M			06/24/2026, 17:33	
XX-00-015-547	AneuFixPSF*AneuFixPSF	NL-001-010	M			06/09/2026, 10:17	
XX-00-015-546	AneuFixPSF*AneuFixPSF	NL-001-009	M			06/09/2026, 10:25	
XX-00-015-545	AneuFixPSF*AneuFixPSF	NL-001-008	F			06/09/2026, 10:20	
XX-00-015-543	P003	P122	F			06/09/2026, 08:55	
XX-00-014-903	ELKOURI-ALTO	ALTO-001	M			03/24/2026, 15:55	
XX-00-014-730	Patient2_KB	Patient2_KB	M			03/09/2026, 12:19	
XX-00-014-729	ANONYMOUS_CT_4089256581	4089256353	F			03/09/2026, 12:17	

Figure 5: Home page

Optional Features

The interface can be a little bit different for the table. The interface can have optional column for the patient: Hospital or Countries in the table.

The operation of this page will be explained in the following sections.

4.3.1 List of patients

This is the set of patients that have been added and/or processed by the computation servers. Each user has appropriate access to the patients.

Each line corresponds to a patient. It contains the patient's ID number, name, date of birth, gender, customer/group and the date of the last series treated.

You can easily browse the patient list by clicking on the "arrow" button at the bottom right of the table.

To show or hide all the series treated for each patient, simply click on the "down arrow" button in the first column.

You can sort the list of patients by date of birth, gender, name, etc... Simply click on the arrow icon next to each column name, that appears when the cursor is on hover over the column name

The checkboxes on the left of each row are selectable, its usage is explicated in the part Export Data.

4.3.2 Tool bar

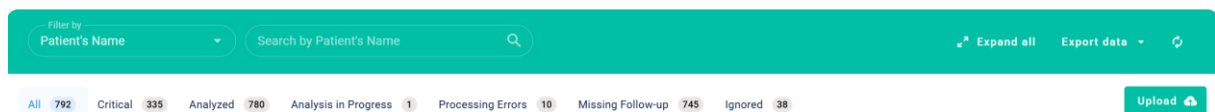


Figure 6: Tool bar screenshot

Search

It allows you to search for a patient more quickly with different filters to refine your search, for example, find all patients at risk or find patients whose name contains or begins with "PATIENTX".

Export data

The system allows you to export patient or series measurement data in CSV format. You can choose to export either all available data or only specific patient/series records. There are two ways to perform this action:

➔ Exporting selected patients/series

- Navigate to the list of patients or series.
- Select the specific patient(s) or series whose measurements you want to export.
- Click on the Export Selection option in the menu (Figure 8).
- Select export option with measure (default option)
- Confirm the action to generate and download the CSV file containing the selected data.
- When a notification announced the download has been completed, you can click on the download link



Export only patient data without measurement information

Follow the same procedure as described above.

At the export step, select the option **“Export without measurements”** instead of **“Export with measurements,”** as shown in Figure 7.

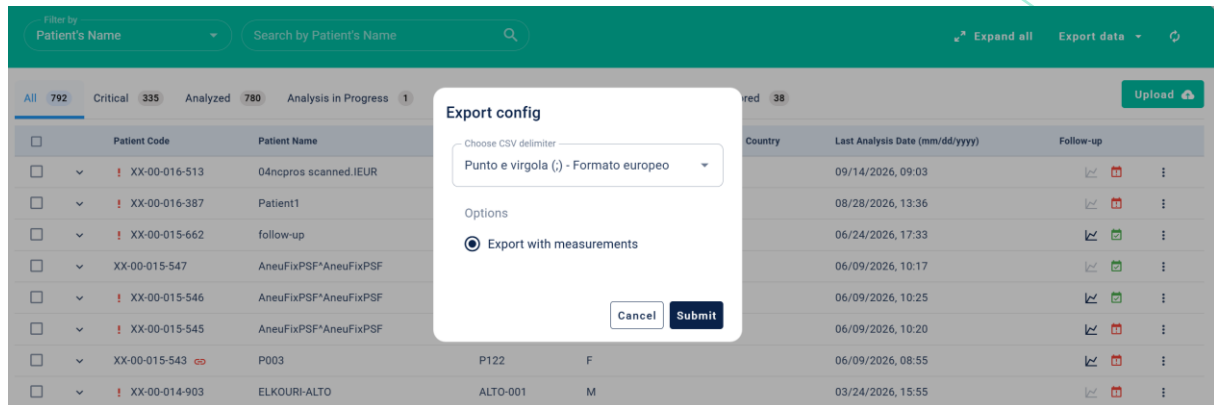


Figure 7: Exporting patient data without measures

➔ Exporting All Accessible Data

- To export all available measurement records, click on the Export All option in the menu.
- A CSV file will be generated containing the measurement data of all patients/series you are authorized to access.
- When a notification announced the download has been completed, you can click on the download link

Restrictions and access rules

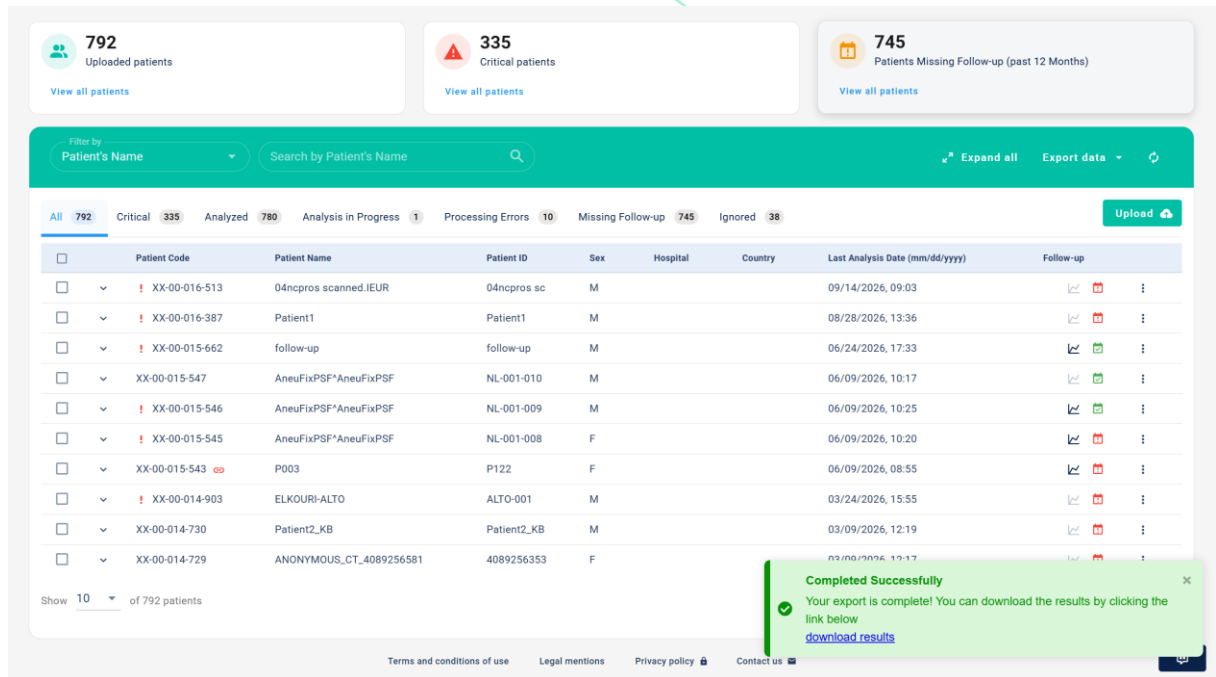
- You can only export data for patients or series who belong to your group. Any information from other groups will not be accessible or included in the export.
- Export functionality is only available for patients/series whose measurement data has already been processed by the server.

Viewing Export History

The software also provides an option to track previous data exports.

- In the menu, you can find an “Export history” option that allows you to view a list of past exports.
- This section includes details such as the export date, the type of data exported, and delete button.

- This feature helps users keep track of their export activities and verify previously downloaded files.



The screenshot displays the PRAEVAorta® Web interface. At the top, there are three summary cards: '792 Uploaded patients', '335 Critical patients', and '745 Patients Missing Follow-up (past 12 Months)'. Below these is a search bar with 'Filter by Patient's Name' and a search icon. A table lists patient data with columns: Patient Code, Patient Name, Patient ID, Sex, Hospital, Country, Last Analysis Date (mm/dd/yyyy), and Follow-up. The table includes a 'Show 10 of 792 patients' dropdown. A green notification box at the bottom right states: 'Completed Successfully. Your export is complete! You can download the results by clicking the link below download results'. The footer contains links for Terms and conditions of use, Legal mentions, Privacy policy, and Contact us.

Figure 8: Export measurement data

Refresh

To refresh the patient/series records, you can click on the “Refresh” button, and the data table will be updated.

Expand all

To view the complete series information for all patients and display all patient rows, simply click on the "Expand all" button.

4.3.3 “Upload” button

The “upload” button, above the patient list, allows you to open the upload window to import and upload CT scan for analysis:



only DICOM files are supported.

New patient / series ×

Drop files or [Select files](#) / [Select folder](#)

1056 files
882.38 Mb × 100 %

[Attach to an existing patient](#) optional ▼

Series Description	Patient Name	Patient ID	Number of instances	Hospital information
▼ ARTERIEL	04cproles scanned.EUR	04cproles s	1050	Select a hospital ▼ ✖

Items per page: 5 1-1 of 1 |< < > >|

[+ Add Hospital information](#) [Send selected series](#)

Figure 9: Upload window

To add a new patient or a new series of patients, simply drag and drop CT-scan images or folder into the input area or click on the buttons [select folder](#) or [select files](#) a browse window and select the CT-scan series files.

If there are several series in the same file or series is related with DICOMDIR file, you will see the following arrangements:

New patient / series ×

Drop files or [Select files](#) / [Select folder](#)

1056 files
882.38 Mb × 100 %

631 files
341.15 Mb × 100 %

[Attach to an existing patient](#) optional ▼

Series Description	Patient Name	Patient ID	Number of instances	Hospital information
☐ ▼ ARTERIEL	04cproles scanned.EUR	04cproles s	1050	Select a hospital ▼ ✖
☐ ▼ AP ARTERIEL 1.0mm	06cptoes scanned.IEUR	06cptoes sc	626	Select a hospital ▼ ✖

Items per page: 5 1-2 of 2 |< < > >|

[+ Add Hospital information](#) [Send selected series](#)

Figure 10: Example of PRAEVAorta® Web upload window with several series

Select the series(s) you wish to process by checking the boxes and click on the “Send selected series” button when it clears.

Once the CT-scan series is uploaded, it appears in the list of series, a “trash” button  to delete the series and an “arrow” button  to open an information window about the series. You can easily navigate in the list of series with the “arrow” button  of the pagination. If you click on the “cancel” button it will cancel all you have done on the window, and you will be sent back to the patient management page.

Optional Features: Anonymization & hospital configuration

The following features, **anonymization** and **hospital information configuration**, are optional and independent. You can send the patient or series data as-is without anonymizing it or associating it with a hospital. These features are available to enhance data privacy and organization but are not mandatory for sending data to the computation server.

Anonymization

The anonymization function ensures patient data confidentiality by replacing or obfuscating sensitive information. This feature allows you to anonymize data for a selected patient or an entire series before further processing.

To anonymize data for a patient or a series, follow these steps:

1. Click the “Anonymize series” button at the row of the series.
2. A dialog box will appear, prompting you to enter a new patient ID and name to replace the current information. Click “Anonymize series” to finalize the anonymization process or click close to cancel the anonymization and close the anonymization tab.
3. After the anonymization process, you can view and download results, after anonymization, a mapping table will display, showing the DICOM tags that have been modified or replaced. We recommend you to use the “Download anonymized data” button to download all images in the series with the updated anonymized information in DICOM format or download a mapping table to save the concordance of old values and new values.
4. Check the anonymized status: once the data is anonymized, the patient/series will have a visible tag **anonymized**. You can check the column “Original value” and “Anonymized values” to verify all data changed, there are red in the left and green in the right column.

The screenshots below illustrate the anonymization section, with the “Anonymize series” button on each series of the table and the dialog box that appears when anonymization process is performed.

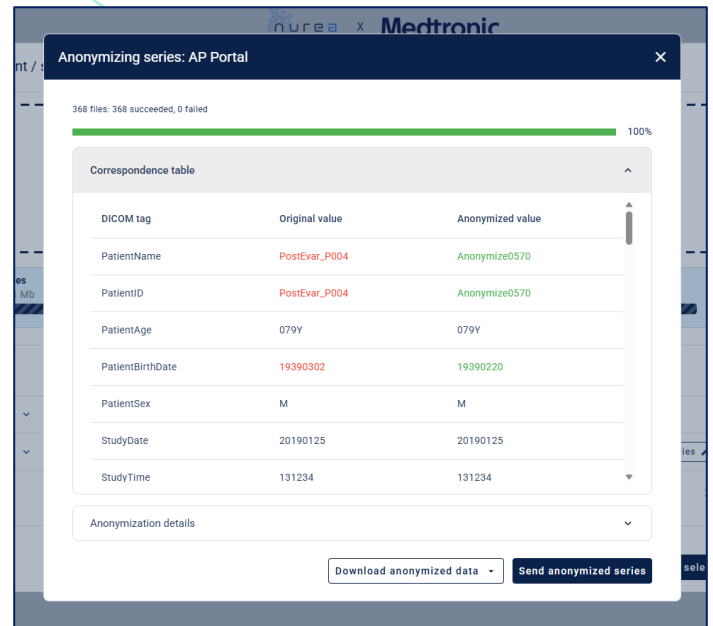
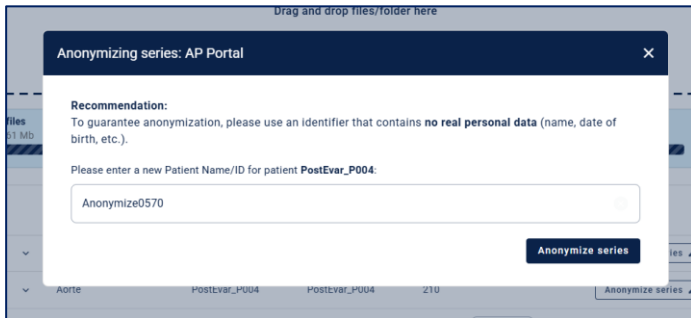
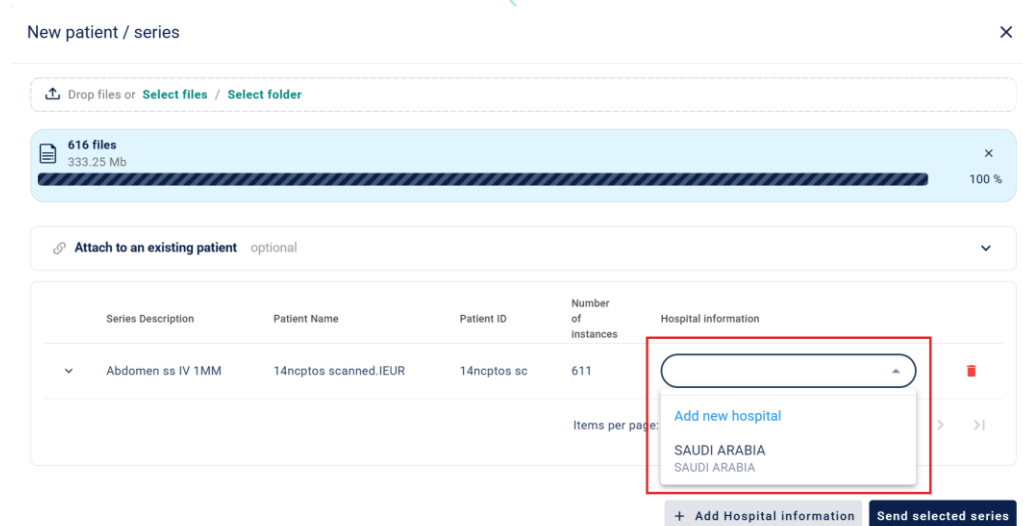


Figure 11: Anonymization window showing the anonymization section

Hospital information configuration

The hospital information configuration feature allows you to associate a patient/series with a hospital. You can do these two steps:

- Adding a new hospital using the “Add hospital information” button.
- Selecting an existing hospital or the new hospital from the dropdown in the table for each patient as shown in *Figure 12*.



New patient / series

Drop files or [Select files](#) / [Select folder](#)

616 files
333.25 Mb
100 %

[Attach to an existing patient](#) optional

Series Description	Patient Name	Patient ID	Number of instances	Hospital information
Abdomen ss IV 1MM	14ncptos scanned.IEUR	14ncptos sc	611	Add new hospital SAUDI ARABIA SAUDI ARABIA

Items per page: > >|

+ Add Hospital information Send selected series

Figure 12: Upload window with hospital configuration elements

Option 1: Add hospital information

1. Click the "Add hospital information" button: clicking it opens a dialog to add a new hospital with hospital name and country text fields.
2. Save the hospital information: once all details are filled, click "Submit". The new hospital information will automatically appear in the list of selectable hospitals.

Option 2: Quickly select a hospital

1. Locate the "Hospital Information" Column: in the patient table, find the column labeled Hospital Information (Figure 12).
2. Open the dropdown and choose an existing hospital from the list
3. Clear the Selection: use the "Clear" icon in the dropdown to remove the hospital association for that patient.

Best Practices for Hospital and Anonymization

- Always verify hospital information before saving or linking to a patient/series to avoid incorrect associations.
- Use the **Anonymization** feature before processing data to comply with privacy and data protection regulations.

 Don't worry, if you upload a series that has already been uploaded, a message will be displayed.

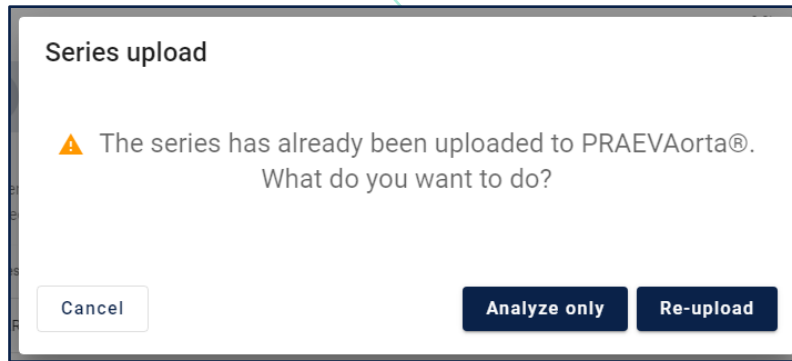


Figure 13: Warning message for Re-uploaded series

You can click on the "Re-upload" button if you would like to re-send the series. If you only need to recompute the series, click on the "Analyze only" button. To cancel the entire operation, click on "Cancel".

Once the upload is done, the patient/series will be displayed in the table where you can follow the progress of the computation.

☐	Patient Code	Patient Name	Patient ID	Sex	Hospital	Country	Last Analysis Date (mm/dd/yyyy)	Follow-up
☐	XX-00-016-514	14ncptos scanned.IEUR	14ncptos sc	M				  
☐	Series Details	Series Description	Series Date (mm/dd/yyyy)	Infrarenal Max Diameter (mm)	Infrarenal Total Volume (cm³)	Status	Endoleaks	Actions
☐		Abdomen ss IV 1MM	06/16/2017			INPROGRESS	40%	 

Figure 14: Compute progress

4.3.4 List of patients Actions

☐	☐	XX-00-016-514	14ncptos scanned.IEUR	14ncptos sc	M				No new exam has been performed since the expected date. Expected follow-up date: 05/06/2025 Follow-up interval: 12 Months
☐	☐	XX-00-016-513	04ncpros scanned.IEUR	04ncpros sc	M			09/14/2026, 09:03	  
☐	☐	XX-00-016-387	Patient1	Patient1	M			08/28/2026, 13:36	  
☐	☐	XX-00-015-662	follow-up	follow-up	M			06/24/2026, 17:33	  
☐	☐	XX-00-015-547	AneuFixPSF*AneuFixPSF	NL-001-010	M			06/09/2026, 10:17	  
☐	☐	XX-00-015-546	AneuFixPSF*AneuFixPSF	NL-001-009	M			06/09/2026, 10:25	  
☐	☐	XX-00-015-545	AneuFixPSF*AneuFixPSF	NL-001-008	F			06/09/2026, 10:20	  

☐	Series Details	Series Description	Series Date (mm/dd/yyyy)	Infrarenal Max Diameter (mm)	Infrarenal Total Volume (cm³)	Status	Endoleaks	Actions
☐		Vol CTA 1.0 CE CTA	03/24/2021	 51.9	108.6	SUCCESS	YES	RESULTS  
☐		2.5/1.25 STD	06/22/2021	 52.9	117.5	SUCCESS	YES	RESULTS  
☐		2.5/1.25 STD	09/20/2022	 55.6	128.1	SUCCESS	YES	RESULTS  
☐		AAA Arteriel 1.0 Bv38.1	05/06/2024	 61.5	164.7	SUCCESS	YES	RESULTS  

☐	☐	XX-00-015-547	AneuFixPSF*AneuFixPSF	NL-001-010	M	06/09/2026, 10:17	 View Endoleaks images Endoleak detection
☐	☐	XX-00-015-546	AneuFixPSF*AneuFixPSF	NL-001-009	M	06/09/2026, 10:25	 PDF report Full medical report
☐	☐	XX-00-015-545	AneuFixPSF*AneuFixPSF	NL-001-008	F	06/09/2026, 10:20	 PDF report Encapsulated PDF integrated in DICOM file
☐	☐	XX-00-015-543	P003	P122	F	06/09/2026, 08:55	 DICOM SC report PACS-compatible format
☐	☐	XX-00-014-903	ELKOURI-ALTO	ALTO-001	M	03/24/2026, 15:55	 NIFTI Segmentation 3D anatomical visualization
☐	☐	XX-00-014-730	Patient2_KB	Patient2_KB	M	03/09/2026, 12:19	CSV measurement data Exported measurements

Show 10 of 793 patients

Figure 15: List of patients

The patient list represents the patients that the user has either added or been granted access to. Each element of the list corresponds to a patient and includes their identification number, name, date of birth, gender, and the date of their last analysis date. You can easily move through the list and increase

the number of patients displayed with the “arrow” button  below the list. To show or hide the series and reports and other explanations just click on the “arrow” button  in the first column or click on the row to open it.

4.3.5 List of series

The series list is a list of all the patient's series. On each row, there's a, the series description, the series date, the maximum diameter measured on the series, the aneurysm volume, the calculation progress status, tags, endoleaks, the button to download the results, i.e. the PDF report, the encapsulated PDF report, the report in DICOM format, the segmentation file with and without landmarks. Another button  is also available for displaying some series tags.



Warning! If the button for downloading results is not displayed and the status is not "in progress" or "pending", reload the page, if the problem persists try downloading the series again, if the problem is still not solved contact support: support@nurea-soft.com.

Details of series Vol CTA 1.0 CE CTA ×	
Description ↑	Value
Modality	CT
Dimensions	512 x 512 x 589
Number of Images	589
Study Description	ANGIOSCAN ABDO-PELVIEN C+ (vasculaire) -AN
Series Instance UID	1.2.392.200036.9116.2.6.1.3268.2054920208.1516686164.95912
Series Description	Vol CTA 1.0 CE CTA
Patient hash	41637be4ff2e1cd55ca703221718af5c37b71d5de73968b10cfe7c8d9ff0eaf5
Study hash	0bd0e8326d275d9a70ba805f10540f8efdeee473c87bdec0a3b939a9de1df20d
Series hash	968670f34af5ed30245796655b294fcd913732e1535946e8ebb7e9259b892be0
Last Analysis Date	2023-10-06T08:15:14

Figure 16: Serie information example

Error series:

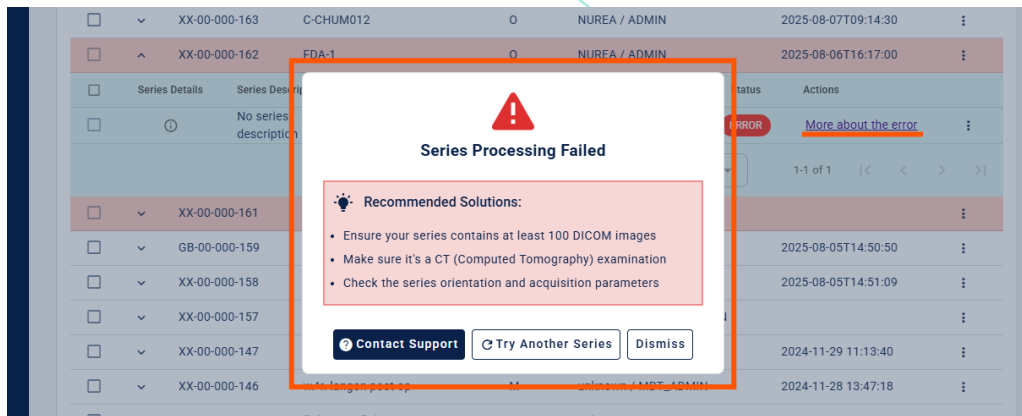


Figure 17: Error detail window

When a series is in error, the user can find out more by clicking on the "More about the error" link: a modal opens to display more information on the possible reasons for the error and some solutions.

4.3.6 Preset filters

A row of quick filters is displayed above the patient list to help you focus on a specific group of patients in one click:

- All: shows every patient (default view)
- Critical: patients flagged as critical
- Analyzed: patients that have been treated successfully
- Analysis in Progress: patients that have not been treated yet
- Processing Errors: patients that have failed
- Missing Follow-up: patients who should have come back for a follow-up but have not yet been seen within the recommended interval.
- Ignored: patients you have chosen to set aside.

4.3.7 Patient follow-up

PRAEVAorta® Web helps you keep track of your patients between two examinations. A calendar icon is displayed next to each patient in the list. Clicking on it opens the follow-up menu, where you can:

- Start a follow-up for the patient;
- Stop an ongoing follow-up;
- Change the follow-up status to Active, Stopped, Missed or Ignored.

Whenever you change the status, you will be asked to select a reason from a predefined list (for example: patient deceased, lost to follow-up, treatment completed, etc.). If none of the proposed reasons fits, select "Other" and a free-text comment field will appear so you can describe the situation in your own words. A comment is mandatory when "Other" is selected and is limited to a maximum length (Figure 18).

☐	XX-00-016-514	14ncptos scanned.IEUR	14ncptos sc	M		
☐	XX-00-016-513	04ncpros scanned.IEUR	04ncpros sc	M	09/14/2026, 09:03	
☐	XX-00-016-387	Patient1	Patient1	M	08/28/2026, 13:36	
☐	XX-00-015-662	follow-up	follow-up	M	06/24/2026, 17:33	
☐	XX-00-015-547	AneuFixPSF*AneuFixPSF	NL-001-010	M	06/09/2026, 10:17	
☐	XX-00-015-546	AneuFixPSF*AneuFixPSF	NL-001-009	M	06/09/2026, 10:25	
☐	XX-00-015-545	AneuFixPSF*AneuFixPSF	NL-001-008	F	06/09/2026, 10:20	

No new exam has been performed since the expected date.
Expected follow-up date: 05/06/2025
Follow-up interval: 12 Months

Calendar icon

Stop follow-up button

Ignored icon

Missing follow-up icon

Figure 18: Patient follow-up calendar icon

Several visual indicators help you spot patients who need your attention:

- the calendar icon itself, which always reflects the current follow-up status of the patient;
- a "missing follow-up" icon (with a tooltip on hover) when the recommended follow-up interval has been exceeded;
- a stop follow-up button accessible from the calendar menu, to quickly end an ongoing follow-up;
- The "Ignored" and "Missing follow-up" quick filters above the patient list, to view at a glance all patients in those situations (See figure19).

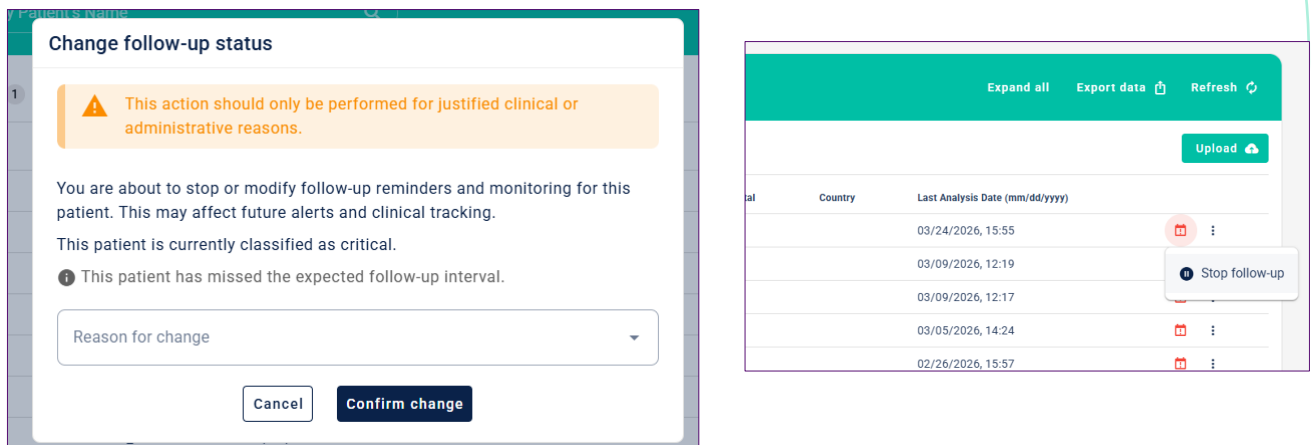


Figure 19: Patient follow-up menu

4.3.8 Patient follow-up panel

When a patient has at least two analysed series, a chart button appears in the "Follow-up" column of the patient list. It opens the follow-up panel, which brings together on a single screen how the patient evolves from one examination to the next. As long as the patient has only one series, the button stays disabled and its tooltip reads "At least two series are required to follow up this patient". The button is not offered for a patient in error.

The panel opens on the right-hand side of the screen. The button in the top left corner closes it, and the next one switches between the reduced view and full screen. In the top right corner, the "Export patient data" button downloads the patient data.

It is made up of the following blocks, from top to bottom:

- the patient and series information: "Code patient", "Birth date", "Last max diameter", "Last total volume" and "Max diameter evolution since last exam";

- the "Evolution of Max diameter and Total volume" table, with one row per examination giving the "Exam date" and the "Evolution since last exam". A missing measurement is reported as "no data" or "No data available";
- the evolution chart, whose title recalls the measurement and the zone displayed. You choose the measurement, max diameter in millimetres or total volume in cubic centimetres, and the anatomical zone: thoracic, suprarenal, juxtarenal or infrarenal aorta, neck, common and external iliac arteries;
- the "Follow-up settings": the patient status ("Active follow-up", "Missing follow-up" or "Unfollowed"), the follow-up interval ("6 months", "12 months (recommended default)" or "Custom") and the date of the next exam due. Any change must be confirmed before it is saved;
- the "Clinician comments", in free text;
- the "History", which keeps track of every change with its "Date", the "User" who made it, the "Action" performed and the "Details".

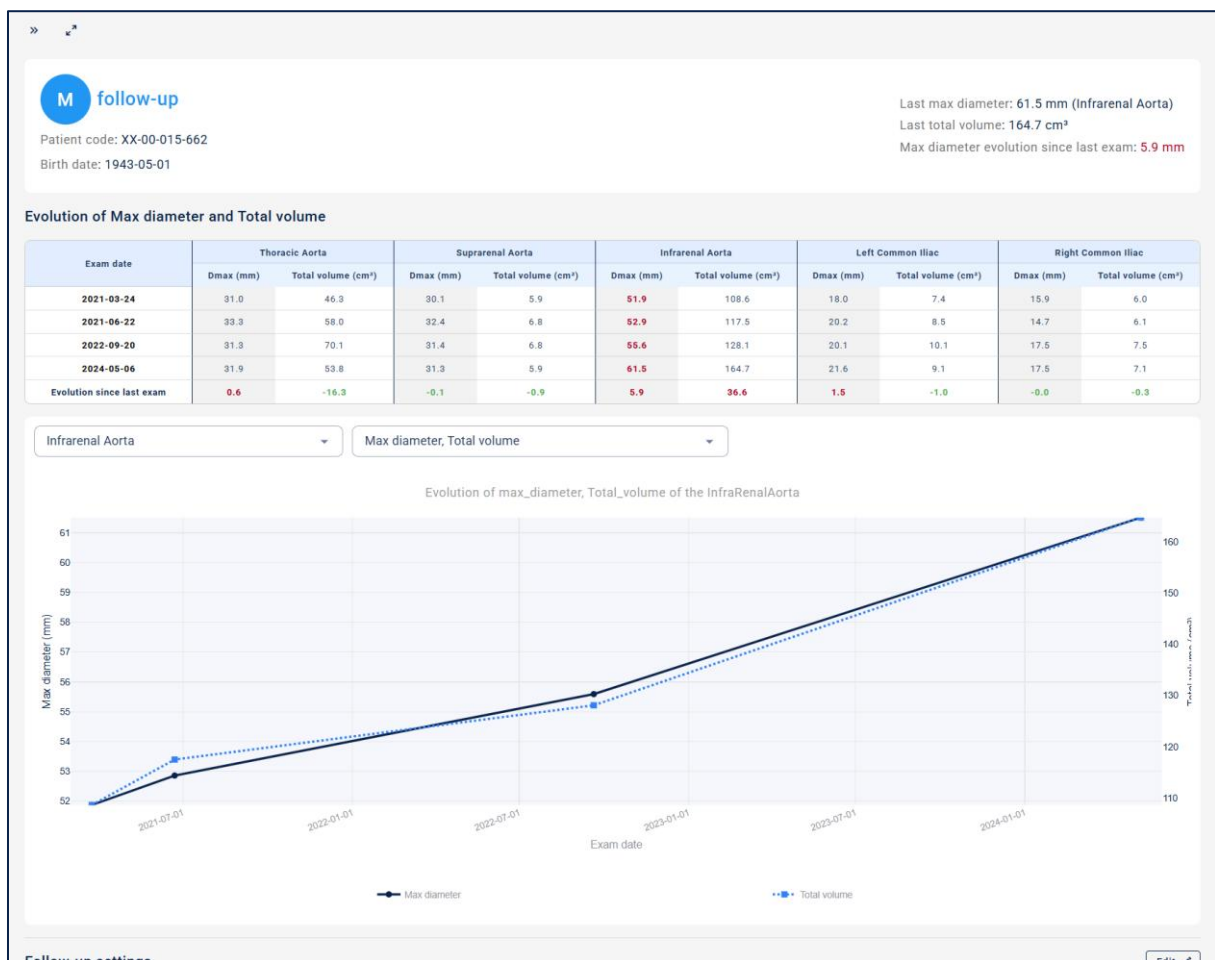


Figure 20: Patient follow-up panel

The follow-up panel is only offered to users whose account holds the corresponding right. If the table or the chart fails to load, an error message states it and invites you to try again later.

4.3.9 Merging patient records

The same patient may appear several times in the list, for example when their examinations were sent with different identifiers. Merging groups these records under a single one. No data is deleted: the linked records remain accessible and the operation is reversible.

Selecting the records to merge

Tick the checkboxes on the left of the patients concerned in the list. A banner then appears above the table and gives the number of patients and series selected. The "Merge" button becomes active from two selected patients onwards, and the "Deselect all" link clears the selection. Only patients whose analysis is complete can be selected.

3 patients selected (6 series selected) Merge (3) Export Selection Deselect all								
	Patient Code	Patient Name	Patient ID	Sex	Hospital	Country	Last Analysis Date (mm/dd/yyyy)	Follow-up
☐	XX-00-016-515	9d110c3257308283e115cd826392ac3427368f9b3cd115c2a2958eadf0594	undefined	M				
☒	XX-00-016-513	04ncpros scanned.IEUR	04ncpros-sc	M			09/14/2026, 09:03	
☒	XX-00-016-387	Patient1	Patient1	M			08/28/2026, 13:36	
☒	XX-00-015-662	follow-up	follow-up	M			06/24/2026, 17:33	

Figure 21: Selection banner and merge button

Choosing the main record

The "Merge" button opens the "Merge n patient records" window, which recalls that "No data will be lost: linked records remain accessible and the merge is reversible." It runs in two steps: "Main patient", then "Review and confirm".

In the first step, designate the record that will serve as the main one. It keeps its patient code and the series of the other records are attached to it, nothing is deleted. The chosen record carries the "Main" badge and the others the "Linked" badge. The "Add another patient" field lets you search for a further record by name and include it in the merge.

Merge 3 patient records

No data will be lost: linked records remain accessible and the merge is reversible.

1 Main patient

2 Review and confirm

Add another patient

Search by name...

The main patient keeps its code. The series from the other patients will be attached to it, **nothing is deleted**.

☐ follow-up XX-00-015-662 Linked
4 series | follow-up | born 1943-05-01

☐ Patient1 XX-00-016-387 Linked
1 series | Patient1 | born 1943-04-21

☒ 04ncpros scanned.IEUR XX-00-016-513 Main
1 series | 04ncpros-sc | born 1939-01-19

Cancel

Continue

Figure 22: Main patient step of the merge window

Review and confirm

The second step summarises the number of series that will be grouped and the name of the record that will receive them. The "Back" button returns to the previous step and the "Merge patients" button validates the operation. A message then confirms that the patient records have been merged.

Merge 3 patient records

No data will be lost: linked records remain accessible and the merge is reversible.

1 Main patient

2 Review and confirm

✓ 1 series will be grouped under 04ncpros scanned.IEUR. Reversible at any time.

follow-up XX-00-015-662

Linked

CT

Vol CTA 1.0 CE CTA

2021-03-24

CT

2.5/1.25 STD

2021-06-22

CT

2.5/1.25 STD

2022-09-20

CT

AAA Arteriel 1.0 Bv38 1

2024-05-06

Patient1 XX-00-016-387

Linked

CT

AAA Arteriel 1.0 Bv38 1

2024-05-06

04ncpros scanned.IEUR XX-00-016-513

Main

CT

SANS IV

Cancel

Back

Merge patients

Figure 23: Review and confirm step of the merge window

Spotting a merged record and undoing a merge

Once the merge is done, the list only shows the main record. A red link icon appears next to its patient code to indicate that it groups several records.

☐	▼	XX-00-015-543		P003	P122	F
☐	▼	! XX-00-014-903		ELKOURI-ALTO	ALTO-001	M
☐	▼	XX-00-014-730		Patient2_KB	Patient2_KB	M

Show 10 of 793 patients

Figure 24: Icon marking a merged patient record

The row menu, opened with the three-dot button, gives access to the panel of linked records. That panel recalls under which record the patients have been grouped, then lists each linked record with its name, patient code, identifier, birth date and sex. A button on each row undoes the merge for that record, which becomes an independent patient in the list again.

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Figure 25: Panel of linked records and undoing a merge

Attaching an import to an existing patient

Merging can be avoided as early as the upload. The upload window runs in three steps, "Import & link", "Review and confirm" then "Confirm and send", and includes an optional attachment section. Search there for an already registered patient by name, then select them so that the imported series are attached directly to their record. If no patient is selected, the series are imported under a new record.

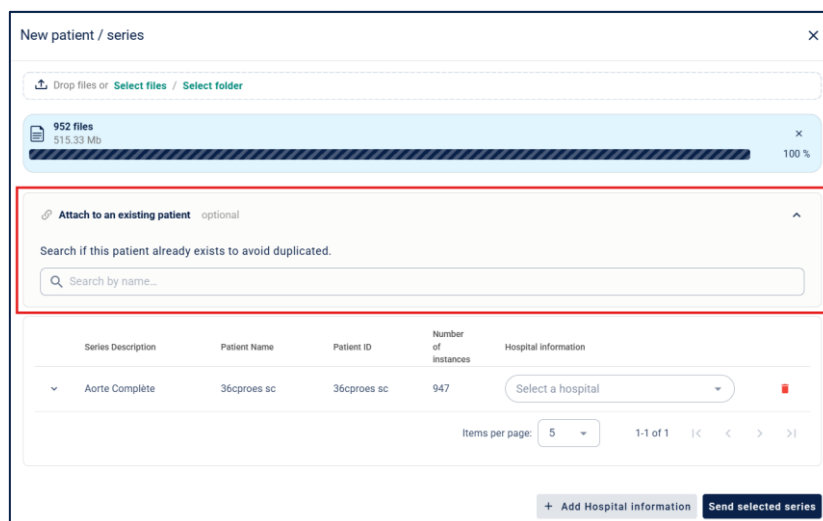


Figure 26: Attaching an import to an existing patient

4.4 Home: Patient counters

A set of counter cards is displayed on the Home page to give you an immediate overview of your activity. Each card shows the number of patients in a given situation:

- Critical
- Uploaded (all)
- Missing follow-up.

Clicking on a card automatically applies the matching quick filter to the patient list below: for example, clicking the "Critical" card immediately shows only your critical patients (Figure 20).

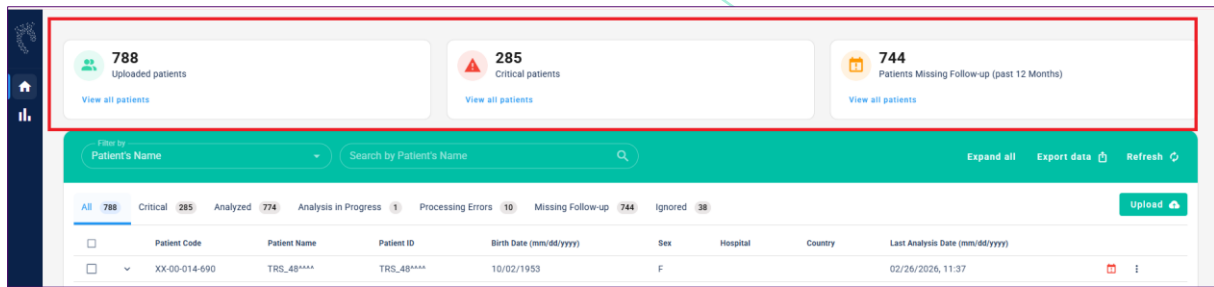


Figure 27: Patient counters

4.5 Dashboard

It aggregates various relevant data allowing to have a general and detailed view on the use of PRAEVAorta® Web. It shows three bits of information, as shown in the following screenshot (Figure 28):

1. the statistics of usage, the total of uploads made by the group
2. the statistics for the patients: error patients, Critical Patients and Not Critical Patients
3. the statistical details for the number of segmentations, centerline and report performed by each user, group and customer

Note: these data are updated regularly to allow you to follow your use in a synchronous way.

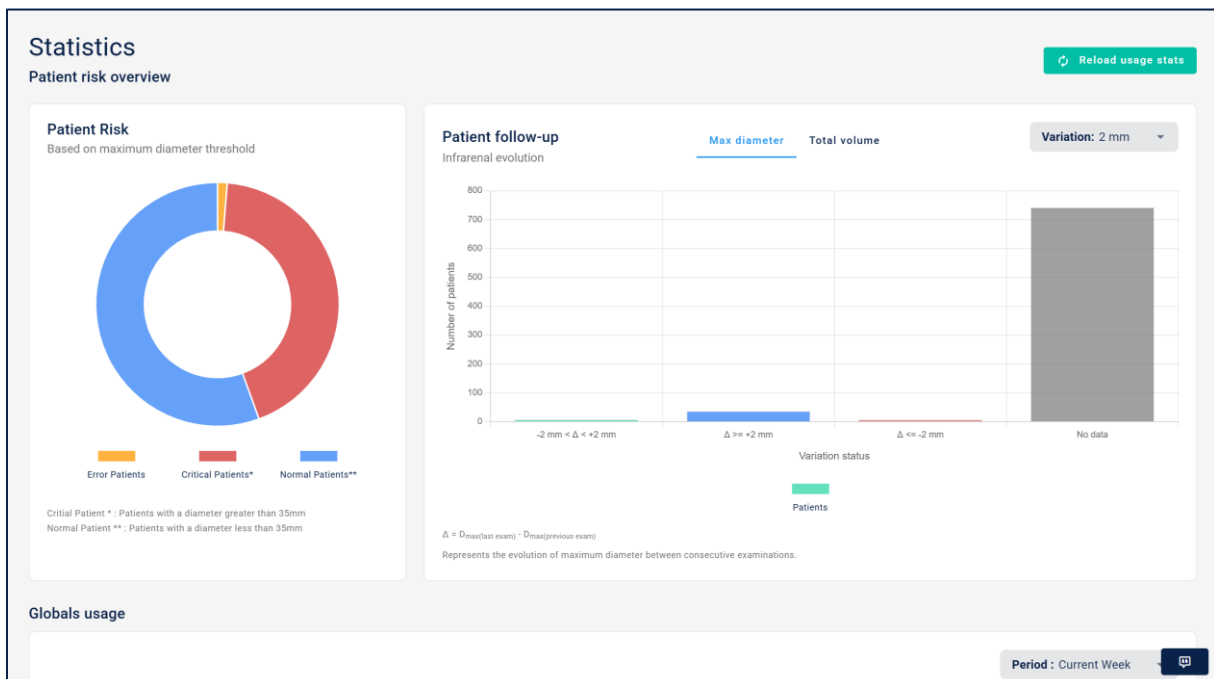


Figure 28: Dashboard Metrics

Patient follow-up stats:

A follow-up evolution chart is displayed on the Dashboard page to help you see, briefly, how your patients evolve between two consecutive examinations. The chart groups patients into a few categories (typically stable, increased, decreased, no data).

Two controls let you adjust the view:

- a metric selector to switch between Maximum diameter (Dmax) (Figure 22) and Total volume (Figure 23)
- a diameter threshold input to focus the chart on patients above a given value. Type a value and wait a moment, the chart updates automatically (Figure 24).



Figure 29: Patient follow-up based on Max diameter



Figure 30: Patient follow-up based on Total volume



Figure 31: Total volume threshold input variation

4.6 About

The page About display informations of PRAEVAorta® Web, PRAEVAorta® 2 and the Label.

The About page provides detailed background information on the PRAEVAorta® product line and its regulatory labeling. It is designed to give users a clear understanding of the software's development, purpose, and certified compliance.

This page includes the following content:

- **PRAEVAorta® Web:** A summary of the web-based version of PRAEVAorta® Web

- **PRAEVAorta® 2:** An overview of the PRAEVAorta® 2 versions
- **Regulatory Labeling and Certifications:** This section presents official labeling information, such as CE marking, and compliance with medical device regulations. It also includes the version history, software class, intended use, and manufacturer details, providing transparency and assurance to healthcare professionals and regulatory bodies.

4.7 Help

The Help page serves as a comprehensive resource designed to assist users in understanding and navigating the PRAEVAorta® Web application. It provides structured information, essential documentation, and quick access to support content. Additionally, a dedicated button is available for users to download a full PDF guide containing all Help resources in an offline format.

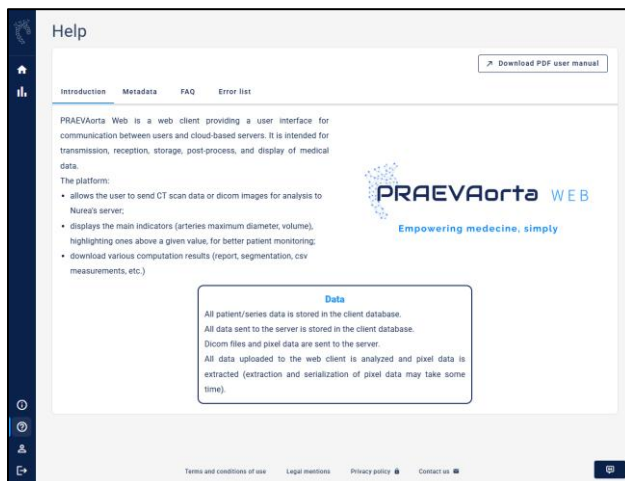


Figure 32: Help, introduction section

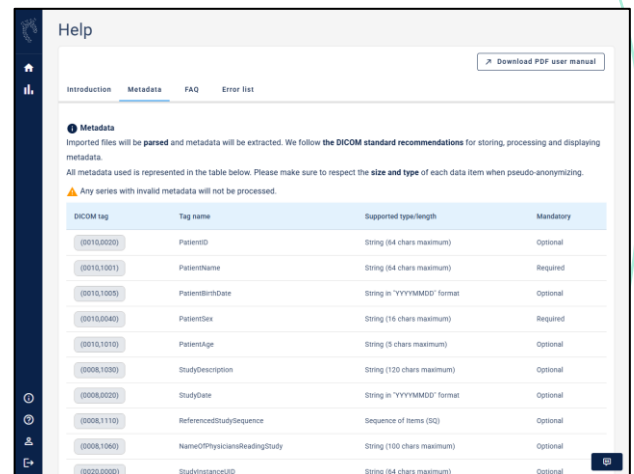


Figure 33: Help, Metadata section

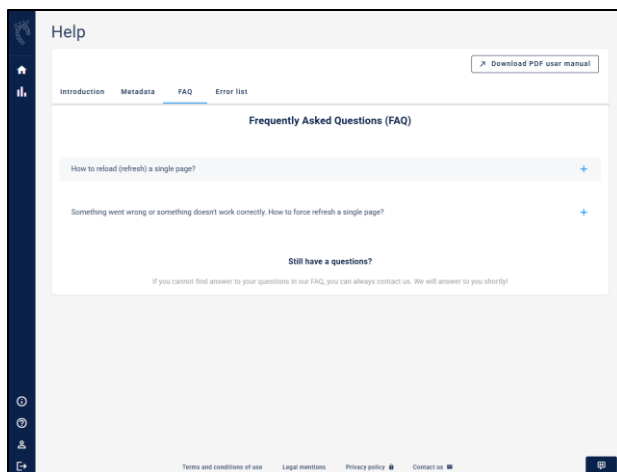


Figure 35: Help, FAQ section

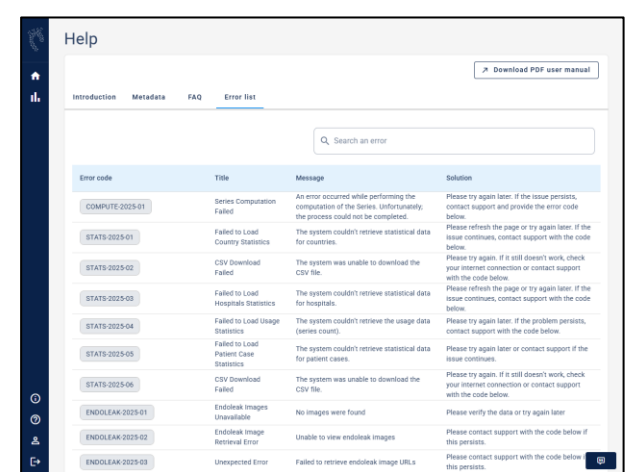


Figure 34: Help, Error list section

The page is organized into the following key sections:

- **Introduction (Figure 32):** This section offers an overview of the PRAEVAorta® Web platform, outlining its purpose.
- **Metadata (Figure 33):** Here, users will find detailed information about the metadata structure used in the application, with a focus on the DICOM (Digital Imaging and Communications in Medicine) tags. This section clarifies the format, required fields, and interpretation of DICOM metadata within PRAEVAorta® Web, enabling accurate data input and interoperability with imaging systems.
- **FAQ (Frequently Asked Questions Figure 35):** A curated list of commonly asked questions and their corresponding answers is provided to address typical user concerns.
- **Error List (Figure 34):** This section includes a comprehensive list of error messages that may appear within the PRAEVAorta® Web interface. For each error, the description includes the cause, its potential impact on the workflow, and recommended actions for resolution. This helps users efficiently identify and manage issues during use.

4.8 Profile

The user section shows all the information about the user such as the email, the group he belongs to and the customer, as shown in the following screenshot.

Other functions are also available in the personal space: password reset, logout from the platform and activation of two-factor authentication. Users can change their password and/or log out directly from their personal space.

Two-factor authentication enables users to reinforce the security of their account by requiring a third identification element, in addition to the username and password, to validate each connection.

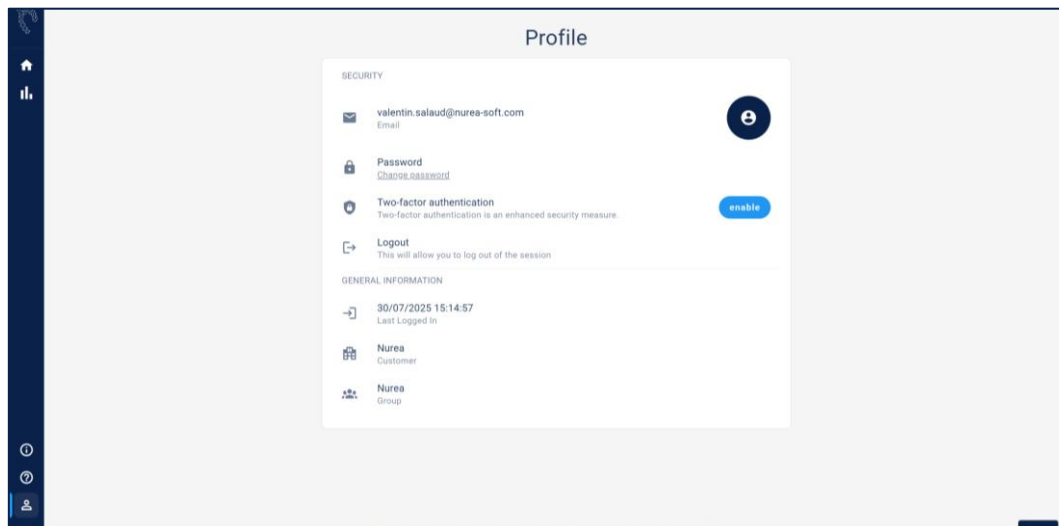


Figure 36: User profile page

To activate two-factor authentication, simply click on “enable” button, and the following dialog box will be opened:

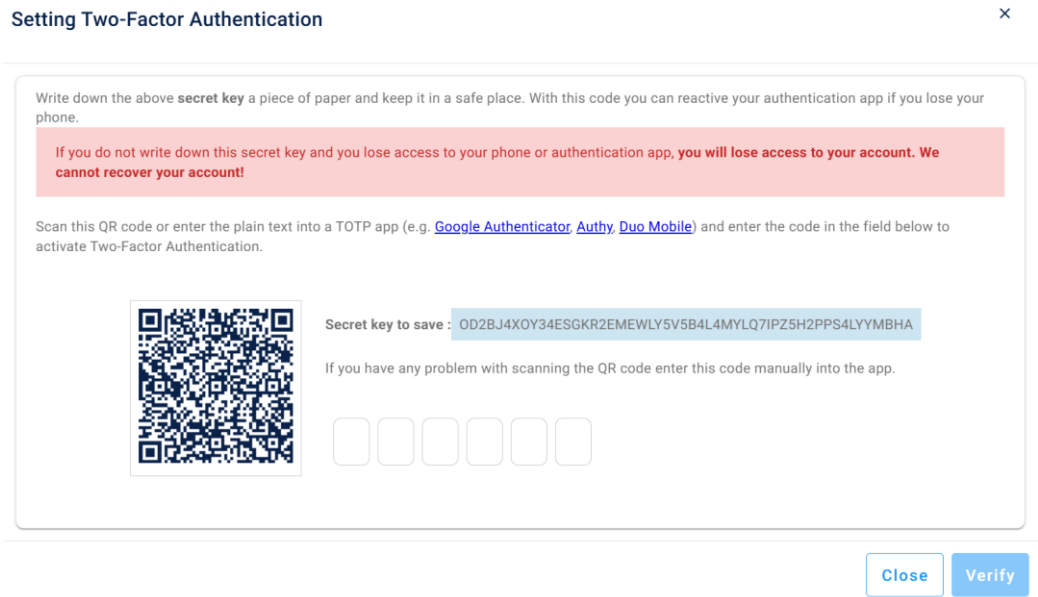


Figure 37: Setting Two-Factor Authentication window

You will need to scan this QR code or enter the plain text into a TOTP app (e.g. Google Authenticator, Authy, Duo Mobile) and enter the code in the field shown in Figure 37.

4.9 User Feedback

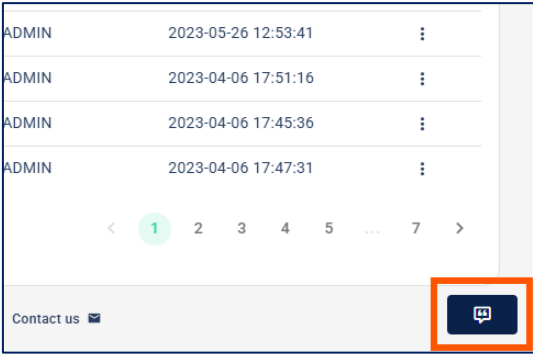


Figure 38: Button user feedback, on right bottom corner of window

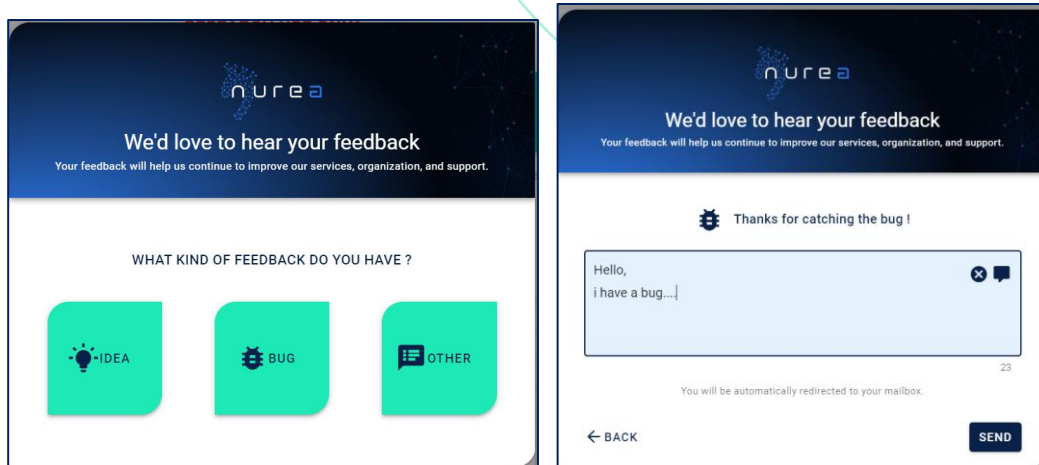


Figure 39: Feedback window on the left and an example for a bug problem on the right

In the main page, you will find at the bottom left a widget with an icon like this , which allows you to display a dialog as shown in the screenshot *Figure 39*.

This dialog allows you to select an option according to your need, either there was a bug while using the platform, or you have an idea or a suggestion to make that allows us to improve the application. The last option is to write any complaint you want to make, ask a question or anything else.

To send feedback, you just have to select an option, write your message in the text box and send it by clicking on the Send button. You will be redirected to your email box to complete the process and send your email securely.

You can edit your message directly in the modal or on your email before sending it.

4.10 Error page (404 page)

The software includes a dedicated 404 error page that appears when a user attempts to access a page or resource that does not exist or is temporarily unavailable.

This page informs the user that the requested content cannot be found and provides a clear option to return to the home page or navigate back to a valid section of the software.

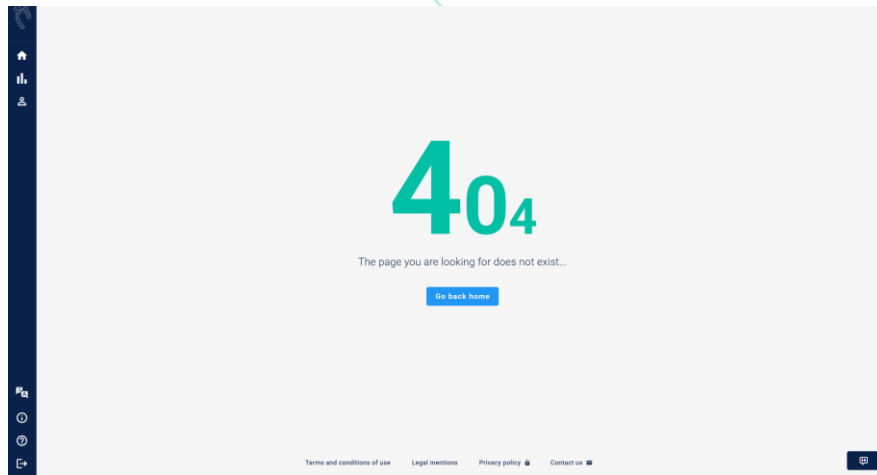


Figure 40: Example of 404 Error Page

5 TECHNICAL SPECIFICATIONS

5.1 Operating Compatibilities:

PRAEVAorta® Web runs on a web browser.

Guaranteed operation on the following popular web browsers: Google Chrome, Mozilla Firefox, Safari, Microsoft Edge (refers to section “environment execution” page 6, to have functional versions).

A good internet connection with a high-speed transfer (download and upload) is recommended.

PRAEVAorta® Web can be used with PRAEVAorta® 2.

5.2 System Input:

Input data necessary for PRAEVAorta® Web are:

- Login credentials
- CT scans in DICOM format

5.3 System output:

The output data from PRAEVAorta® Web are:

- Access to analysis results files (segmentation, reports, measurements, etc.)
- Usage statistics.
- Error, success and warning messages

6 WARNINGS AND PRECAUTIONS

6.1 Notes on safety:

Any information other than that required by PRAEVAorta® Web sent to PRAEVAorta®2 will not be processed and invalid and will result in the invalidation of the input data and the non-creation of the series or patient.

It is very risky to leave your PRAEVAorta® Web session unsupervised, as this would allow a malicious individual to gain access to the patients' health data.

6.2 Warnings:

PRAEVAorta® Web cannot be held responsible for any decision made with the information provided. We encourage users to systematically check the report.

The maximum diameter and indicators provided are indicative, the user must control its position, the other diameter measurements, and the report.

Information posted by PRAEVAorta® Web must be checked and verified.

Only DICOM series are supported by the software.

6.3 Residual risk:

- Research function returns the wrong patient data.

7 TROUBLESHOOTING

PRAEVAorta® Web			
N°	Problem	Possible cause	Resolution
1	Unable to connect to PRAEVAorta® Web	The platform is stopped/Error Authentication Network error	reload the page Check the identifiers used Contact customer support support@nurea-soft.com with mentioning "authentication error".
2	Results (report, segmentation, etc.) not available	Input data corrupted/Bad image type /Network error	Check the compatibility of the input data (scanner images with contrast medium). Verify the proper functioning of the computer network and the connection to the platform. Check the correct functioning of the internet connection in case of cloud use. Contact customer support at support@nurea-soft.com with describing: - The use cases - The error message obtained
3	A button or function is not available	Display bug/refresh error	reload the page Contact customer support : - using the feedback button - by email: support@nurea-soft.com with mentioning "error/non-display of function".

Before reporting any bugs or problems, please check the correct use of the product in accordance with this user manual (intended use, minimum system requirements, compatibility, ...). If the problem persists, please report it by sending an email to the following address: support@nurea-soft.com.

8 ERROR MESSAGES

List of possible messages and errors:

PRAEVAorta® Web			
Code	Error message	Causes possible	Resolution
200	Operation successfully completed	you used <i>PRAEVAorta® Web</i> correctly	N/A
208	Patient / series already exist	the element you want to add already exists	The user must check if the element already exists, if it does not already exist, please contact Nurea on: support@nurea- soft.com .
403	Warning, your session has expired, please try your operation again You do not have access to the platform.	Expired session or you don't have permissions to access the software	Try to reconnect, if fail, contact Nurea's support team at support@nurea- soft.com .
404	Reports not found or segmentations not found or patient not found	the element you wanted to search for was not found	reload the page and check that the element exists
409	The series has already been uploaded and processed by the computation servers	the request could not be processed	check that the request is possible

9 UPDATES AND MAINTENANCE

The maintenance of the software is handled by Nurea. Please contact us in case of any issue.

Any problems, bugs, incidents, incidents of material vigilance, must be reported to Nurea by email at the following address: support@nurea-soft.com.

The software is continuously updated by our services when deemed necessary and with an acceptable an acceptable risk.

10 LABEL

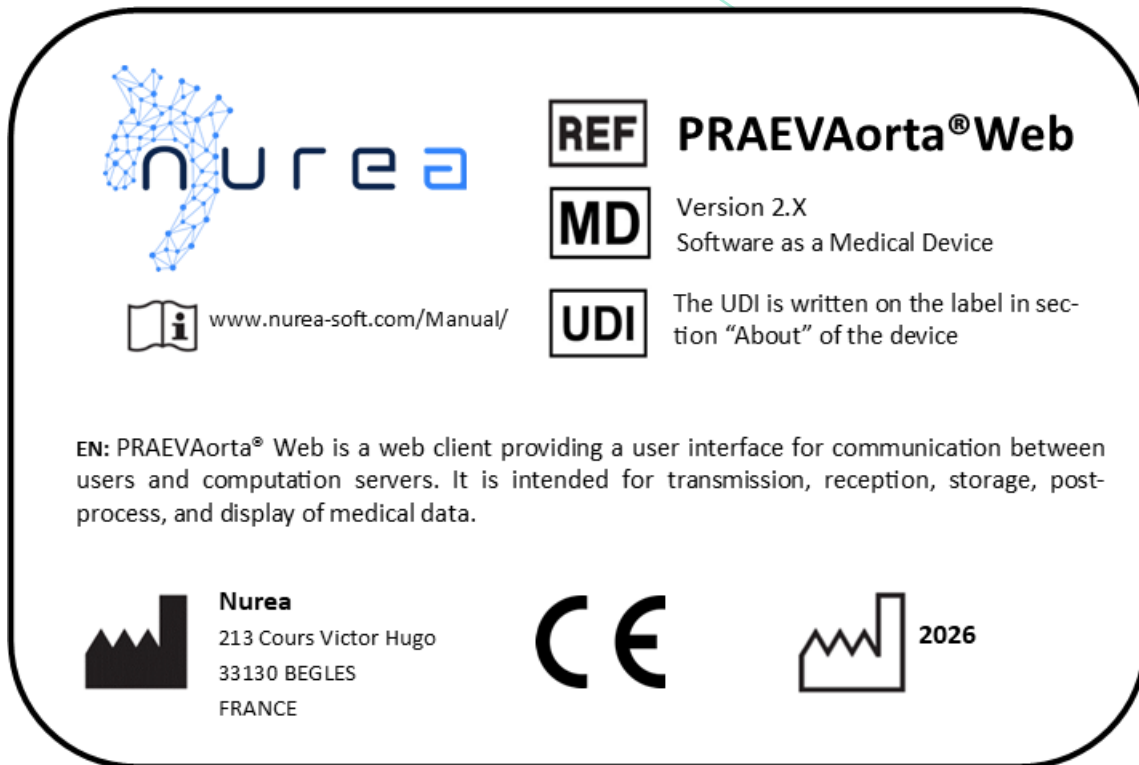


Figure 41: Example of PRAEVAorta® Web label

Symbol	definition
	Manufacturer Mail address of the manufacturer's headquarters
	Date of production of the software YYYY
	It is important to consult the user manual www.nurea-soft.com/Manual/
	CE Marking
	Software reference, here its commercial name and its version The X indicates a variable number. In fact, this number corresponds to the most minor modifications for which the user manual does not need to be updated.

 The MD icon consists of the letters "MD" in a bold, black, sans-serif font, enclosed within a black rectangular border.	MD means medical device
 The UDI icon consists of the letters "UDI" in a bold, black, sans-serif font, enclosed within a black rectangular border.	Unique Device Identifier. It is composed of the product identifier, the date of manufacture in yymmdd and the version of the software. This Identifier is linked to the company, the software, and the version. It is to be communicated to Nurea and competent authority when reporting an incident or bug.
 The warning icon is a black triangle with a thick border, containing a large black exclamation mark.	Indicates that special care is required when using the device.

11 TRAINING

A training will be done at the purchase, before the first use. For further training please contact Nurea.