



User Manual

PRAEVAorta® Web

(Version for healthcare professional)

Software as a Medical Device

Version: v1.6.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

Writer	Reviewer	Approved by

2 PRODUCT

2.1 General information

Product Name	PRAEVAorta® Web
Trending name	PRAEVAorta® Web
Product Model / Version	v1.6.X
Classification	I (Regulation 2017/745)
UDI-DI	0377002375009
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 operate. 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:

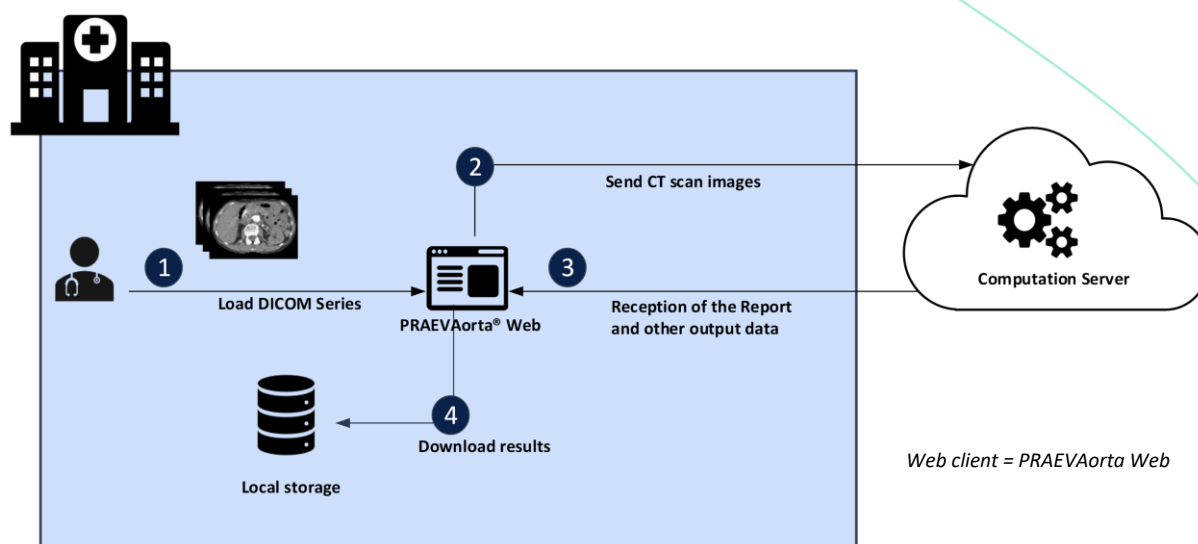


Figure 1: System worksheet

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.

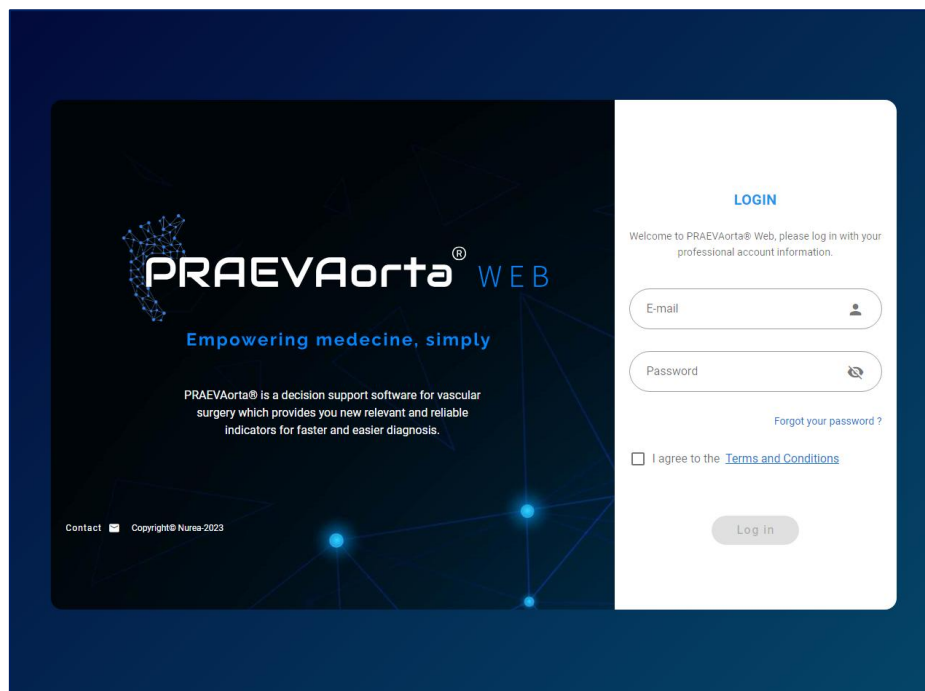


Figure 2: Login page

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

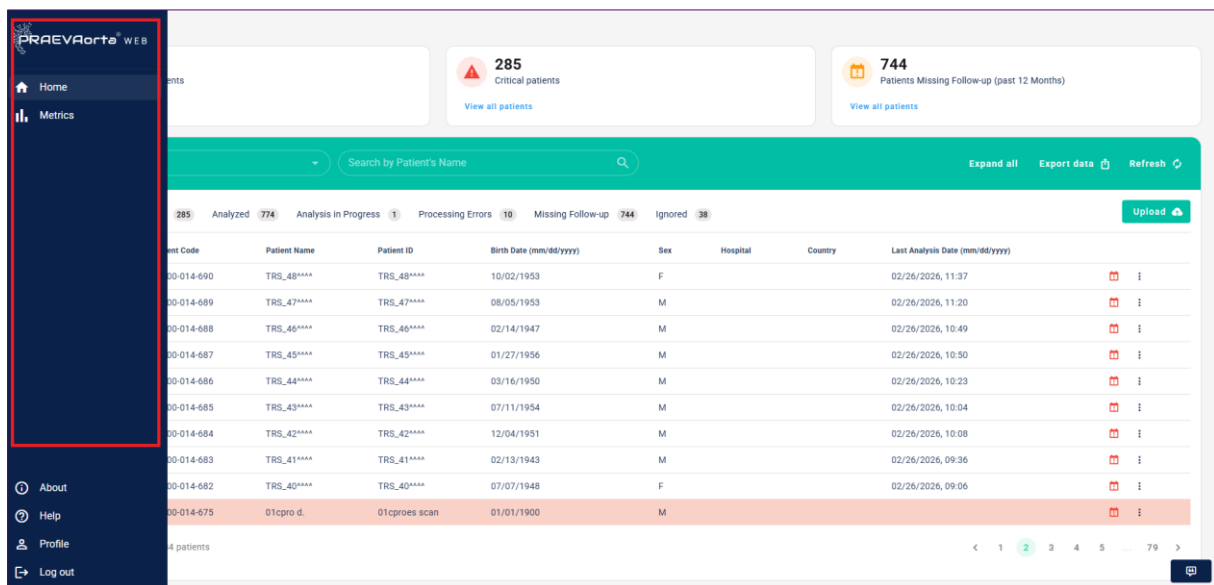


Figure 3 Specification of left banner

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

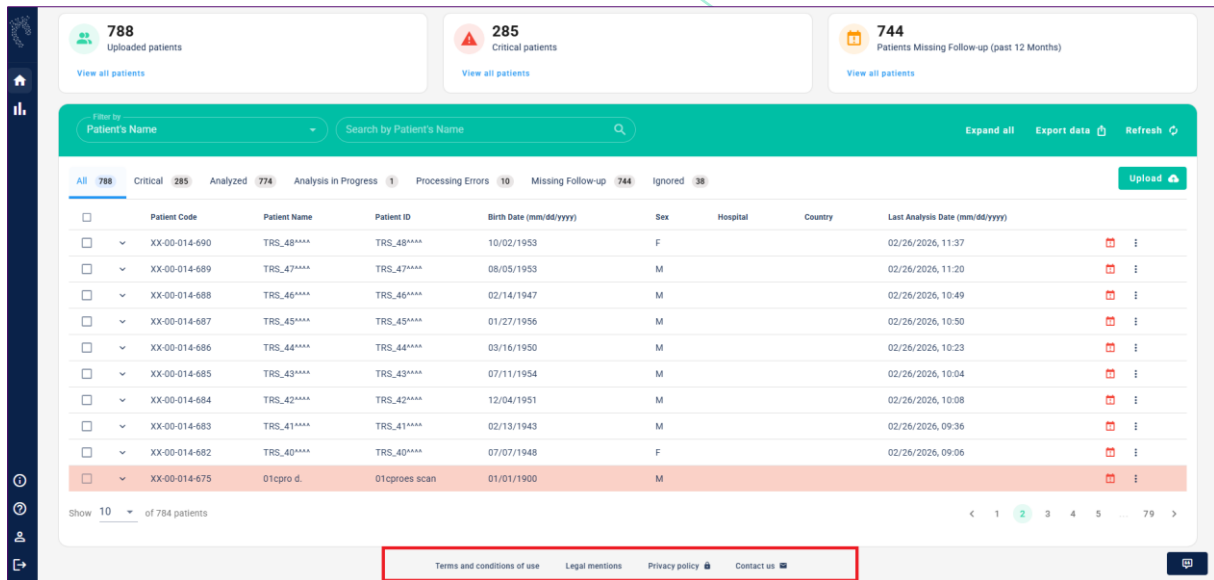


Figure 4 Specific view the footer

“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.

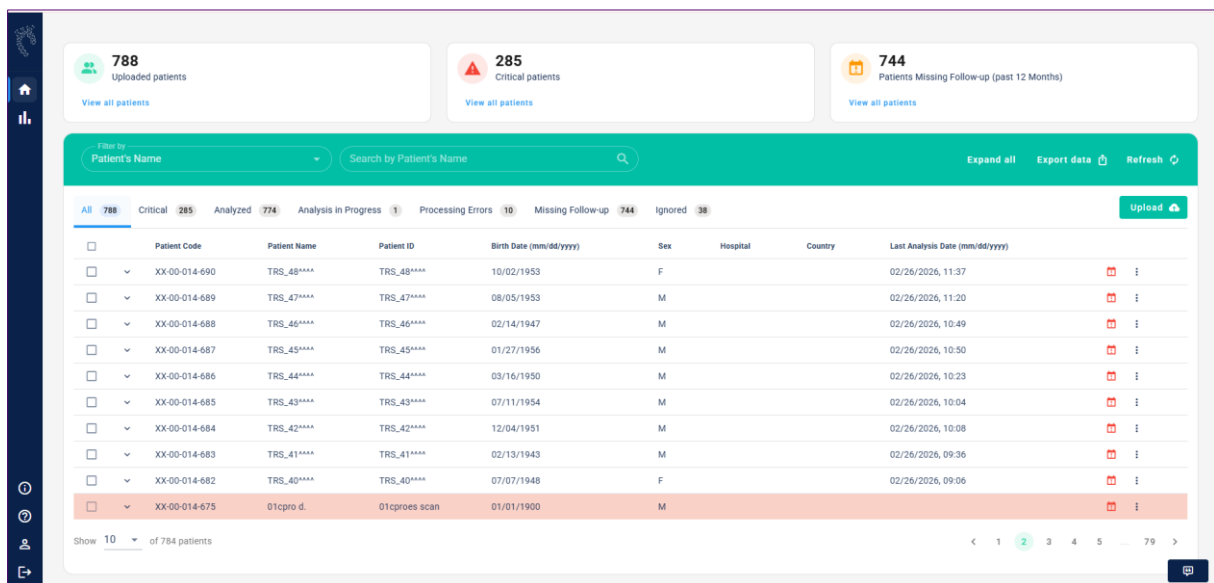
The home page is the main page of the platform, it includes a main view, constituting a table with all the patients and their series that have been treated.

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 application. At the top, there are three summary cards: '788 Uploaded patients', '285 Critical patients', and '744 Patients Missing Follow-up (past 12 Months)'. Below these is a search bar and a table of patients. The table has columns for Patient Code, Patient Name, Patient ID, Birth Date, Sex, Hospital, Country, and Last Analysis Date. The table is filtered by 'Patient's Name' and shows 10 patients per page. The bottom of the table shows a pagination bar with the number 2 highlighted.

Patient Code	Patient Name	Patient ID	Birth Date (mm/dd/yyyy)	Sex	Hospital	Country	Last Analysis Date (mm/dd/yyyy)
XX-00-014-690	TRS_48****	TRS_48****	10/02/1953	F			02/26/2026, 11:37
XX-00-014-689	TRS_47****	TRS_47****	08/05/1953	M			02/26/2026, 11:20
XX-00-014-688	TRS_46****	TRS_46****	02/14/1947	M			02/26/2026, 10:49
XX-00-014-687	TRS_45****	TRS_45****	01/27/1956	M			02/26/2026, 10:50
XX-00-014-686	TRS_44****	TRS_44****	03/16/1950	M			02/26/2026, 10:23
XX-00-014-685	TRS_43****	TRS_43****	07/11/1954	M			02/26/2026, 10:04
XX-00-014-684	TRS_42****	TRS_42****	12/04/1951	M			02/26/2026, 10:08
XX-00-014-683	TRS_41****	TRS_41****	02/13/1943	M			02/26/2026, 09:36
XX-00-014-682	TRS_40****	TRS_40****	07/07/1948	F			02/26/2026, 09:06
XX-00-014-675	01cpro d.	01cproes scan	01/01/1900	M			

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

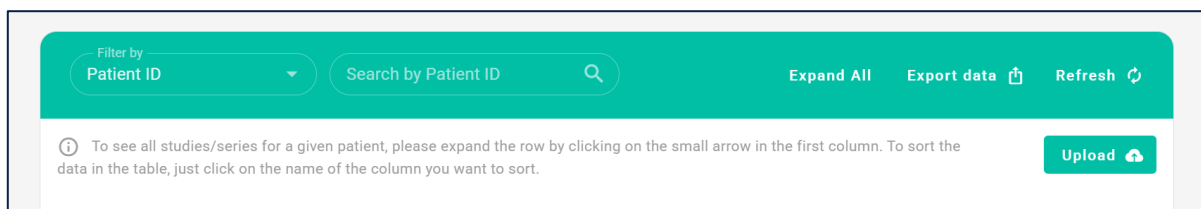


Figure 6: Tool bar screenshot

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 measures”** instead of **“Export with measures,”** as shown in Figure 7.

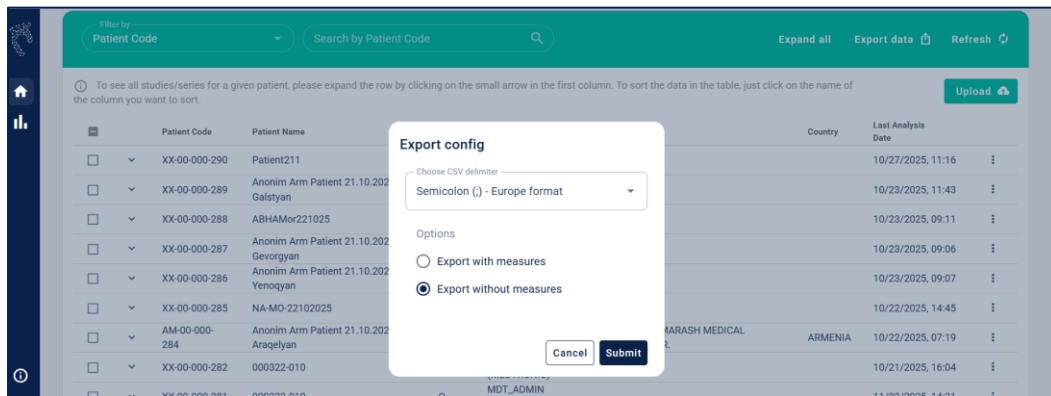


Figure 7 Exporting patient data without measures

➔ **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

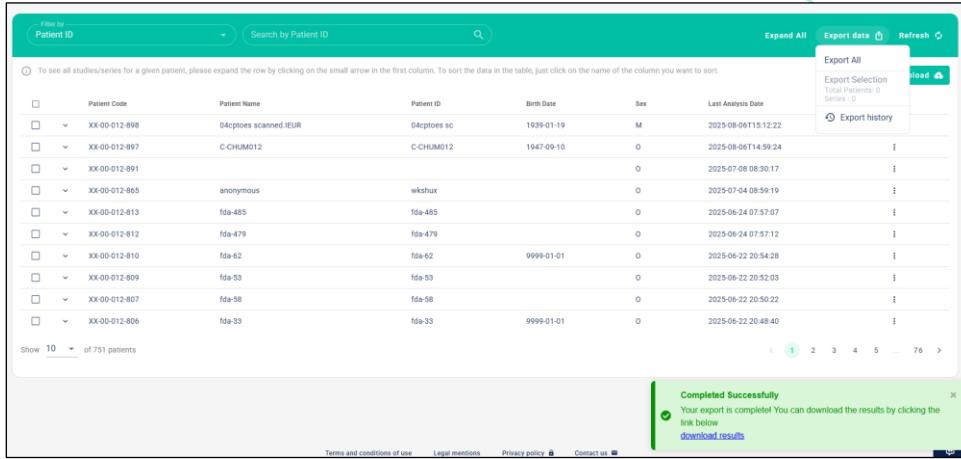
-  You can only export data for patients or series who belong to your group. Any information from other groups will not be accessible or included in the export.
-  Export functionality is only available for patients/series whose measurement data has already been processed by the server.

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.



Patient Code	Patient Name	Patient ID	Birth Date	Sex	Last Analysis Date
XX-00-012-898	04cprobes scanned:EUR	04cprobes sc	1939-01-19	M	2025-08-06T15:12:22
XX-00-012-897	C-CHUMG12	C-CHUMG12	1947-09-10	O	2025-08-06T14:59:24
XX-00-012-891				O	2025-07-08 08:30:17
XX-00-012-865	anonymous	wkshux		O	2025-07-04 08:59:19
XX-00-012-813	fda-485	fda-485		O	2025-06-24 07:57:07
XX-00-012-812	fda-479	fda-479		O	2025-06-24 07:57:12
XX-00-012-810	fda-62	fda-62	9999-01-01	O	2025-06-22 20:54:28
XX-00-012-809	fda-53	fda-53		O	2025-06-22 20:52:03
XX-00-012-807	fda-58	fda-58		O	2025-06-22 20:50:22
XX-00-012-806	fda-33	fda-33	9999-01-01	O	2025-06-22 20:48:40

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.

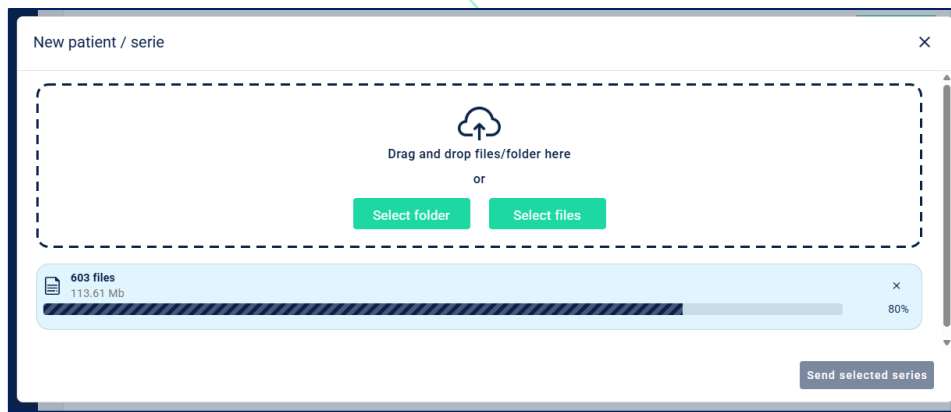


Figure 9: Upload window

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:

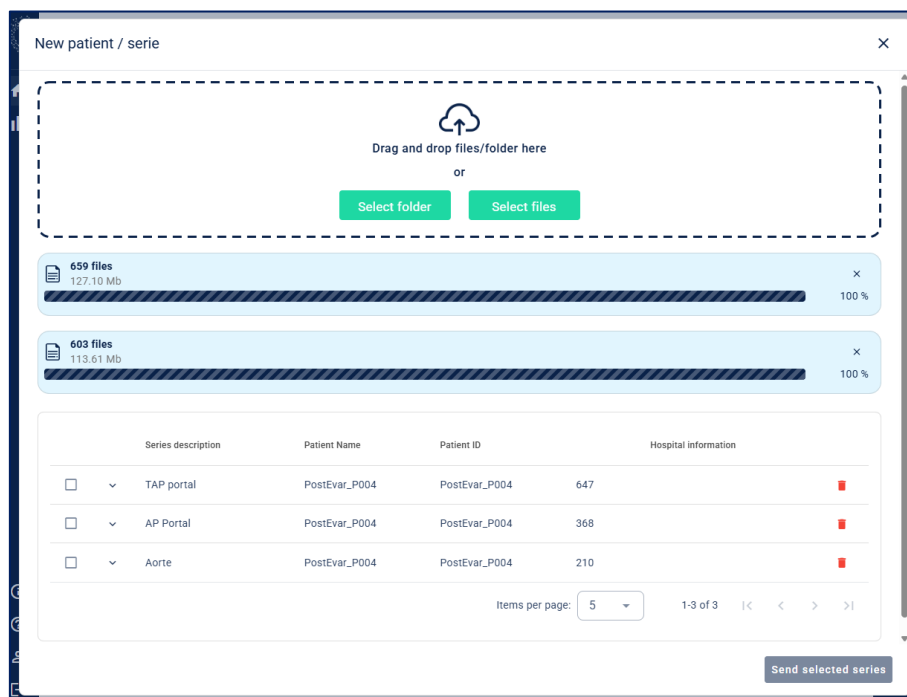


Figure 10 example of PRAEVAorta® Web upload window with several series

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.

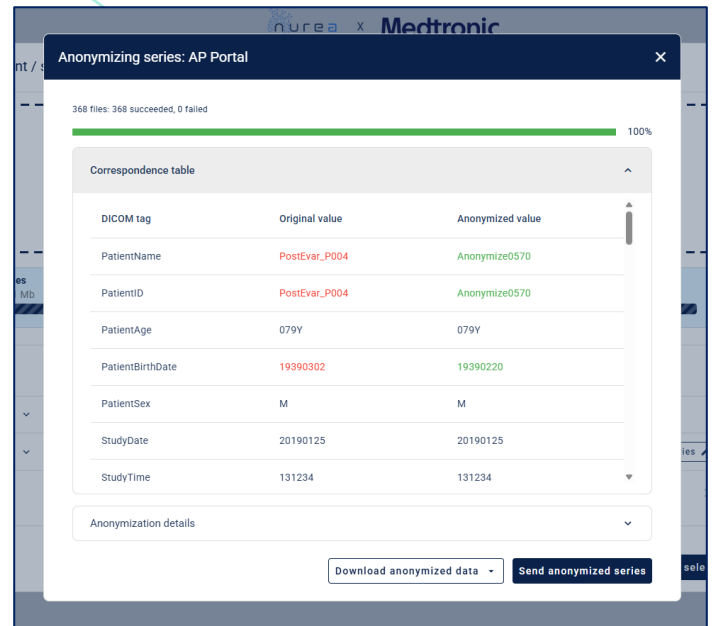
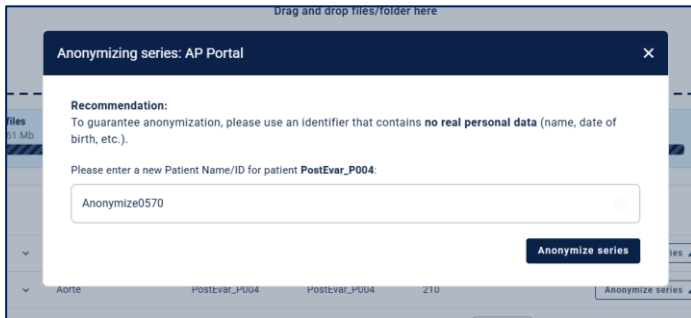


Figure 11: Anonymization window showing the anonymization section

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*.

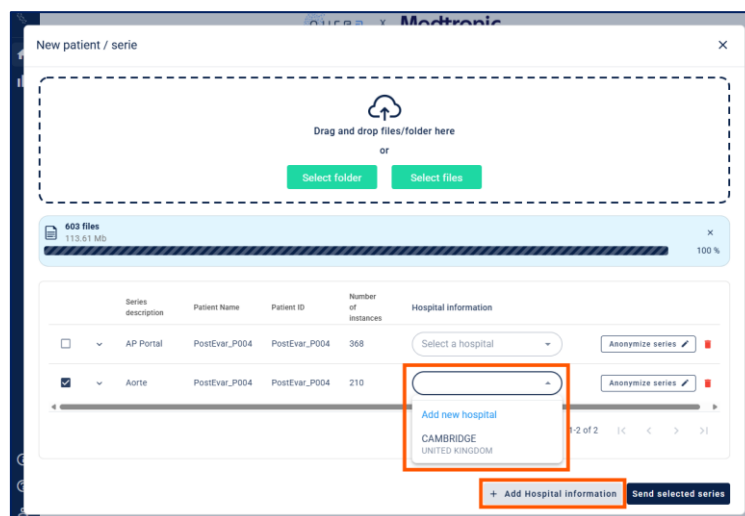


Figure 12 Upload window with hospital configuration elements

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.

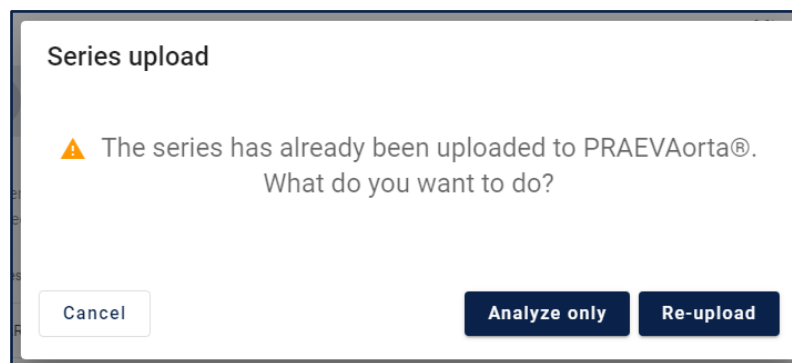


Figure 13: Warning message for Re-uploaded series

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.

the column you want to sort.

☐	Patient Code	Patient Name	Patient ID	Birth Date	Sex	Last Analysis Date	
☐	XX-00-012-398	PostEvar_P003	PostEvar_P003	1900-01-01	F		
☐	Series Details	Series Description	Series Date	Infrarenal Max Diameter (mm)	Infrarenal Total Volume (cm³)	Status	Actions
☐		Aorte	1900-01-01			INPROGRESS	0%
				Items per page:	10	1-1 of 1	
☐	XX-00-012-396	P003	P003	1900-01-01	F	2025-07-31T14:18:49	

Figure 14: Compute progress

4.3.4 List of patients Actions

☐	XX-00-012-197	boujat*jean-francois	99158.534950	1960-01-10	M	2025-03-19 08:58:06	
☐	XX-00-012-098	follow-up_treo	follow-up_treo	1949-03-19	M	2025-03-16 11:15:17	
☐	Series details	Series Description	Series date	Max Diameter (mm)	Volume (cm³)	Status	Actions
☐	ⓘ	ARTERIOGRA	2022-05-16	▲ 51.4	197.7	SUCCESS	RESULTS
☐	ⓘ	ANGIO 0.625	2022-12-16	▲ 54.3	220.3	SUCCESS	RESULTS
☐	ⓘ	FL_ThorAngio 0.75 I26f 3	2023-11-09	▲ 50.8	181.9	SUCCESS	RESULTS
☐	ⓘ	Tardiva 2.0 I30f 2	2025-01-02	▲ 53.6	195.2	SUCCESS	RESULTS
4				Items per page:	5	1-4 of 4	PDF report
☐	XX-00-012-079	5f3b814cc9b2f575c2de83574ed34464d73faf3914f53b6bacec3f4	b6a7dd80609839d0b649b211c9959f25b4369ae23f960792a8b641b	1891-03-19	M	2025-04-0	Encapsulated PDF report
☐	XX-00-012-077	dawkins*juliana***	6bda7f4e	1959-11-04	M	2025-03-0	DICOM SC report
☐	XX-00-012-068			1900-01-01	O	2025-03-0	Segmentation
☐	XX-00-011-979	pell_aaa_sizing_202502_jumaueic****	pell_aaa_sizing_202502_jumaueic****	1959-01-20	M	2025-02-2	CSV measurement data
☐	XX-00-011-978	pell_aaa_sizing_202502_vqgbf****	pell_aaa_sizing_202502_vqgbf****	1944-10-16	M	2025-02-2	

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:

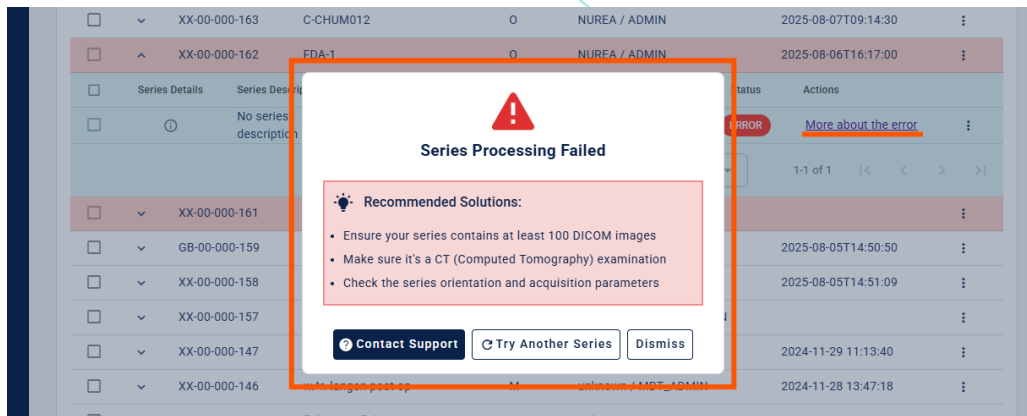


Figure 17 Error detail window

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).

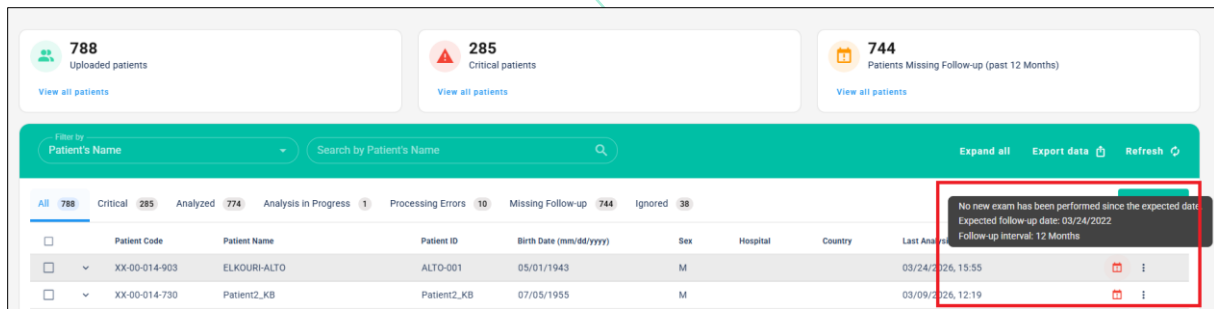
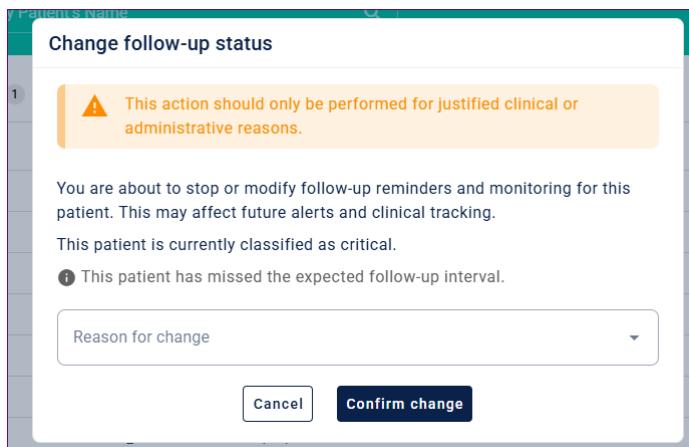
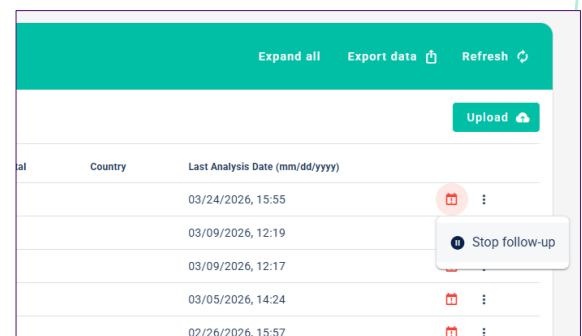


Figure 18 Patient follow-up calendar icon

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).

Country	Last Analysis Date (mm/dd/yyyy)	Actions
	03/24/2026, 15:55	Stop follow-up
	03/09/2026, 12:19	
	03/09/2026, 12:17	
	03/05/2026, 14:24	
	02/26/2026, 15:57	

Figure 19 Patient follow-up menu

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 (Figure20).

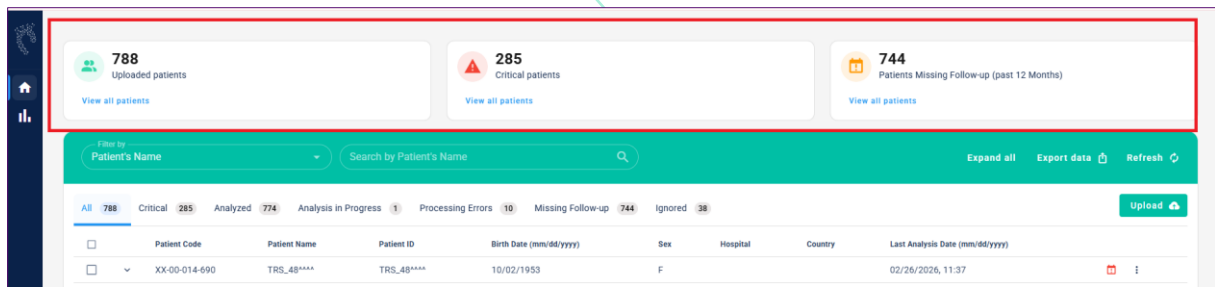


Figure 20 Patient counters

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 21):

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 21: 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).

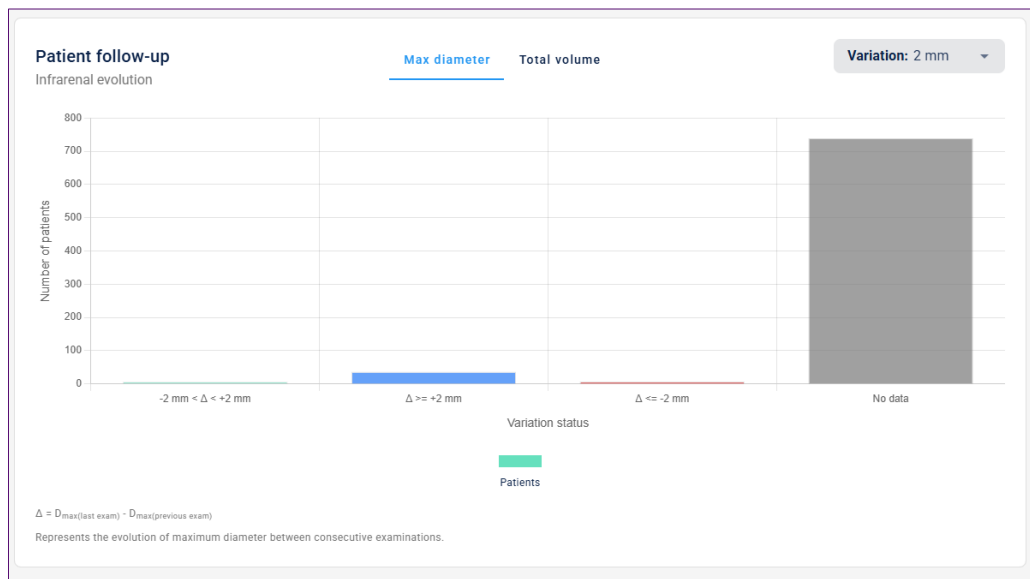


Figure 22 Patient follow-up based on Max diameter

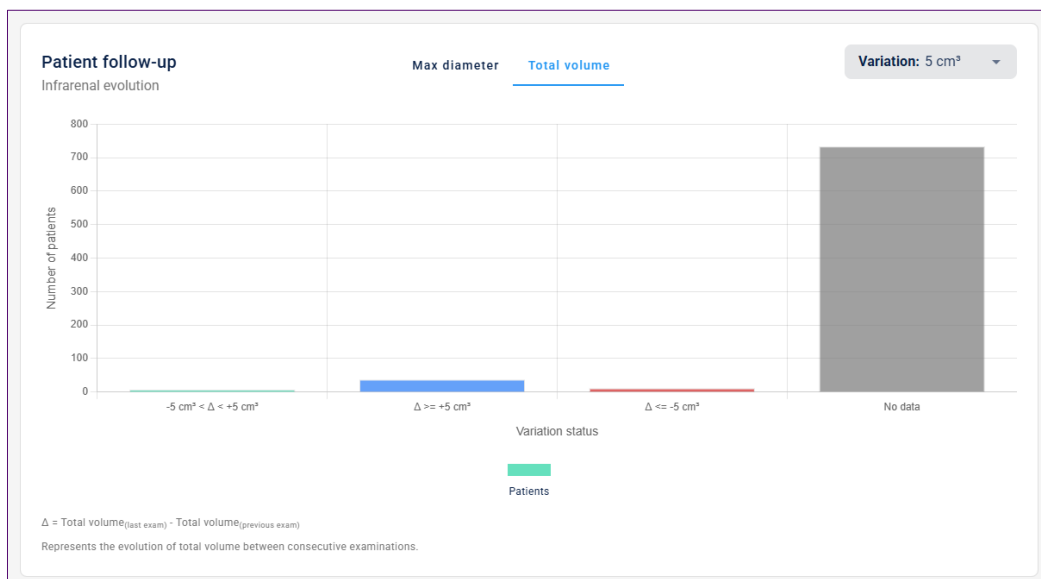


Figure 23 Patient follow-up based on Total volume



Figure 24 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.

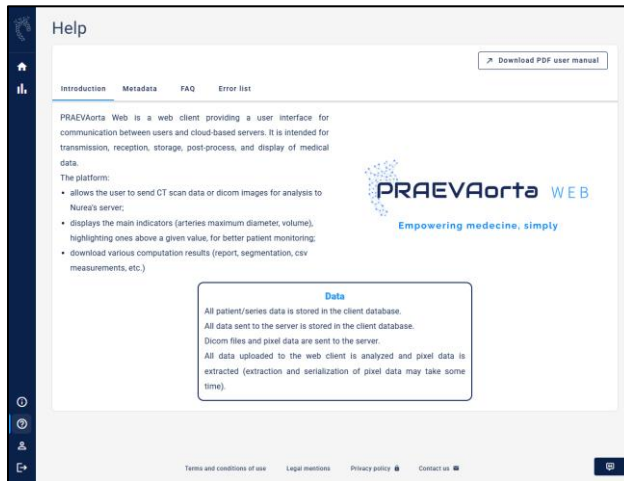


Figure 25 Help: introduction section

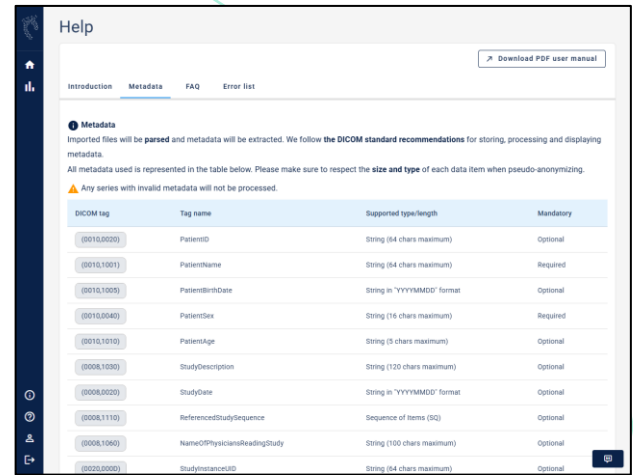


Figure 26 Help: Metadata section

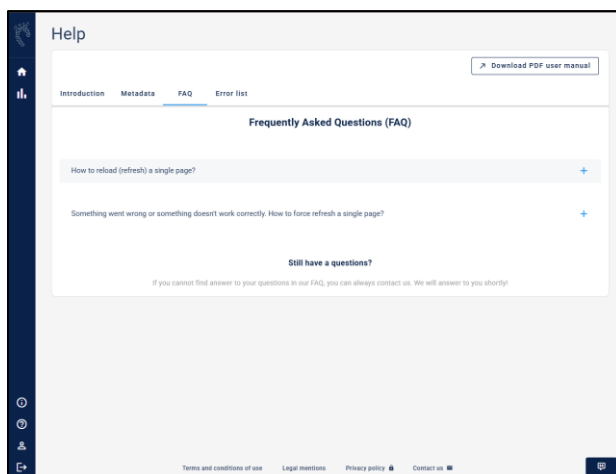


Figure 28 Help: FAQ section

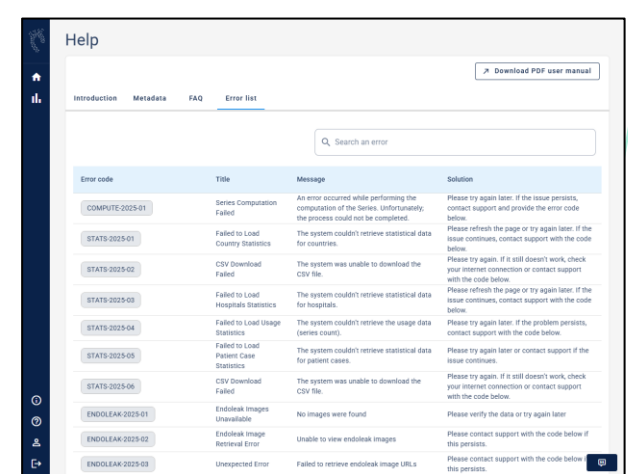


Figure 27 Help: Error list section

The page is organized into the following key sections:

- **Introduction (Figure 25):** This section offers an overview of the PRAEVAorta® Web platform, outlining its purpose.
- **Metadata (Figure 26):** 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 28):** A curated list of commonly asked questions and their corresponding answers is provided to address typical user concerns.
- **Error List (Figure 27):** 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.

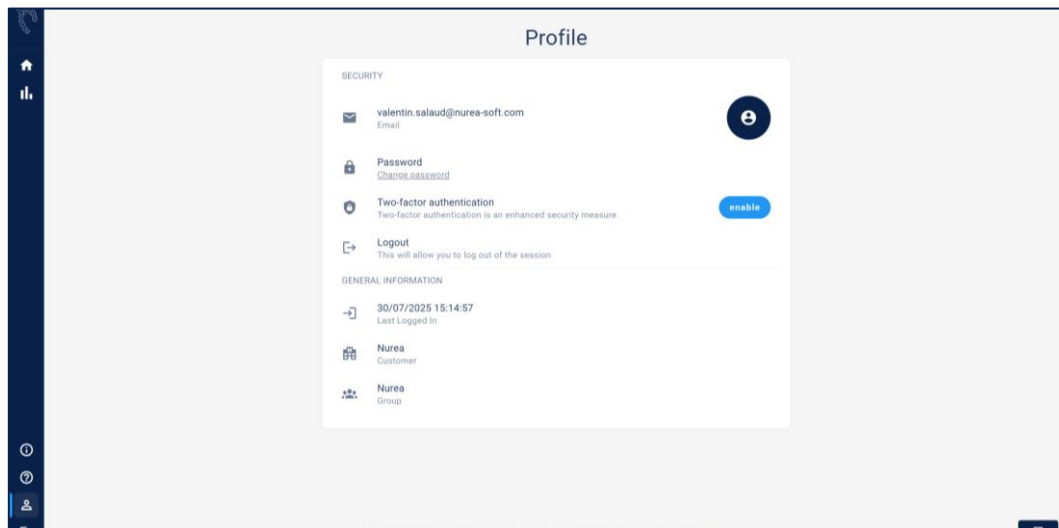


Figure 29: User profile page

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

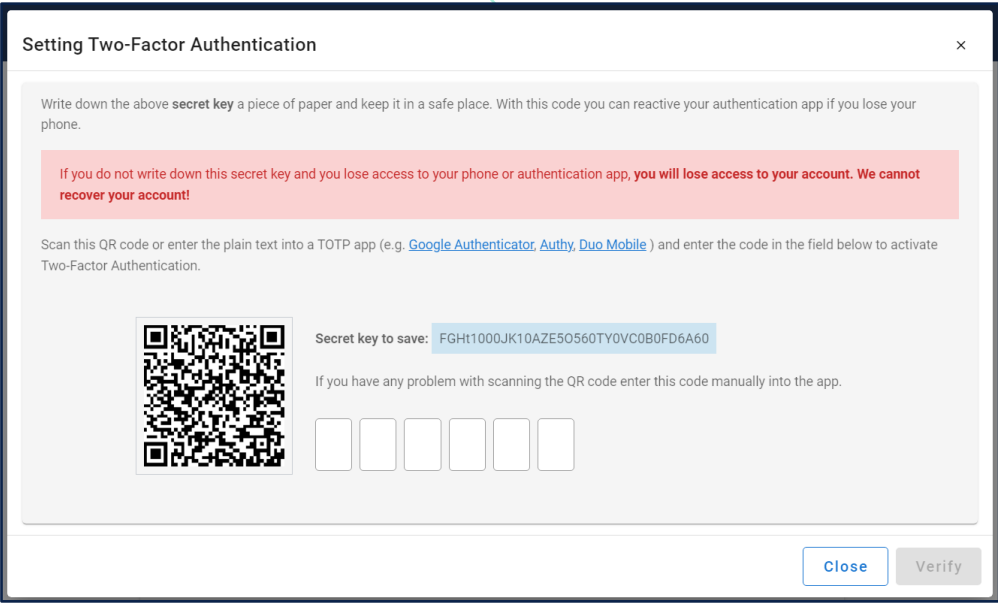


Figure 30 Setting Two-Factor Authentication window

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 **Erreur ! Source du renvoi introuvable..**

4.9 User Feedback

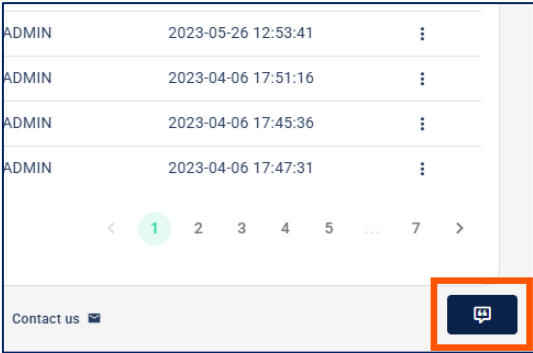


Figure 31 Button user feedback, on right bottom corner of window

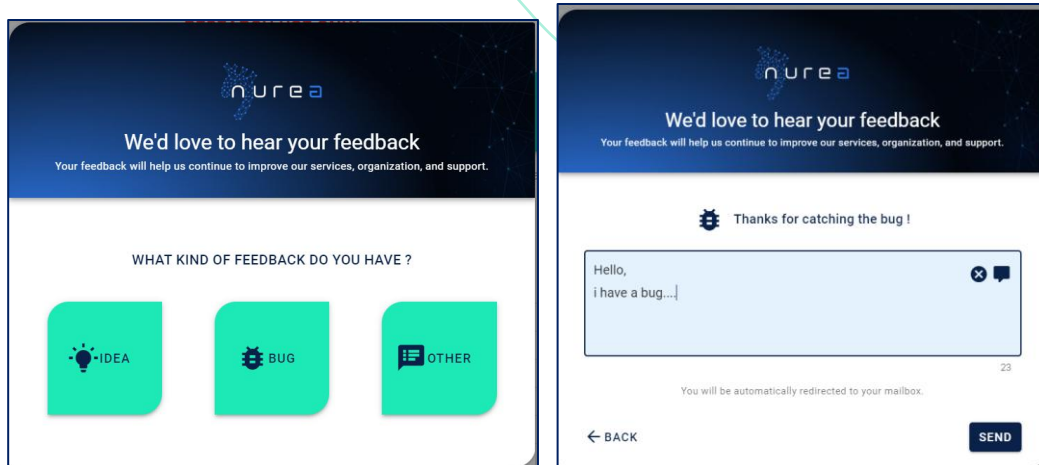


Figure 32: Feedback window on the left and an example for a bug problem on the right

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 32*.

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.

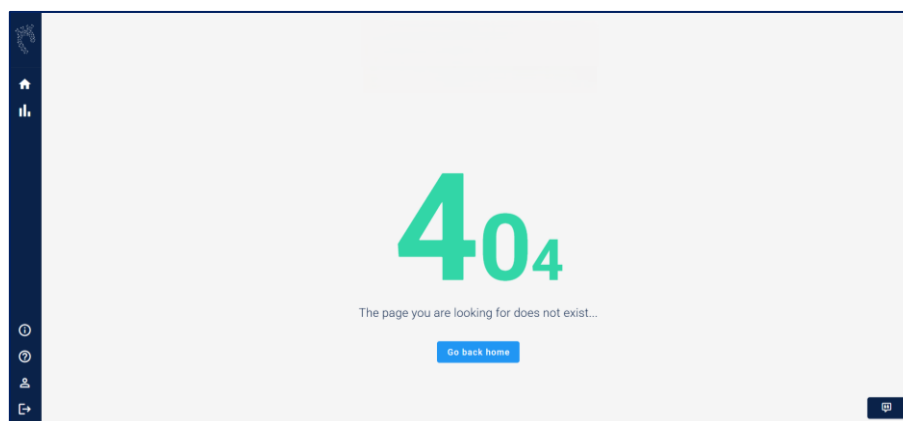


Figure 33 : Example of 404 Error Page

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

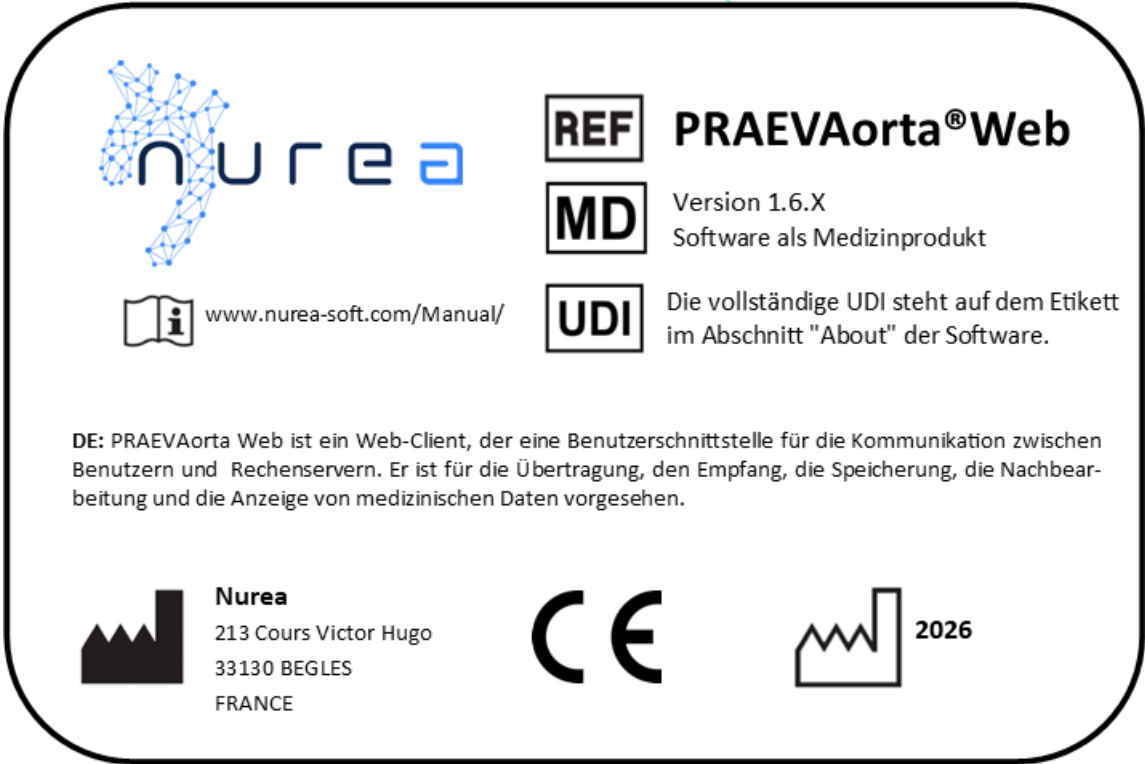


Figure 34: Example of PRAEVAorta® Web label

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.

	MD means medical device
	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.
	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.