

Castor

Castor CDMS Data Entry User Guide

Version 2022.3

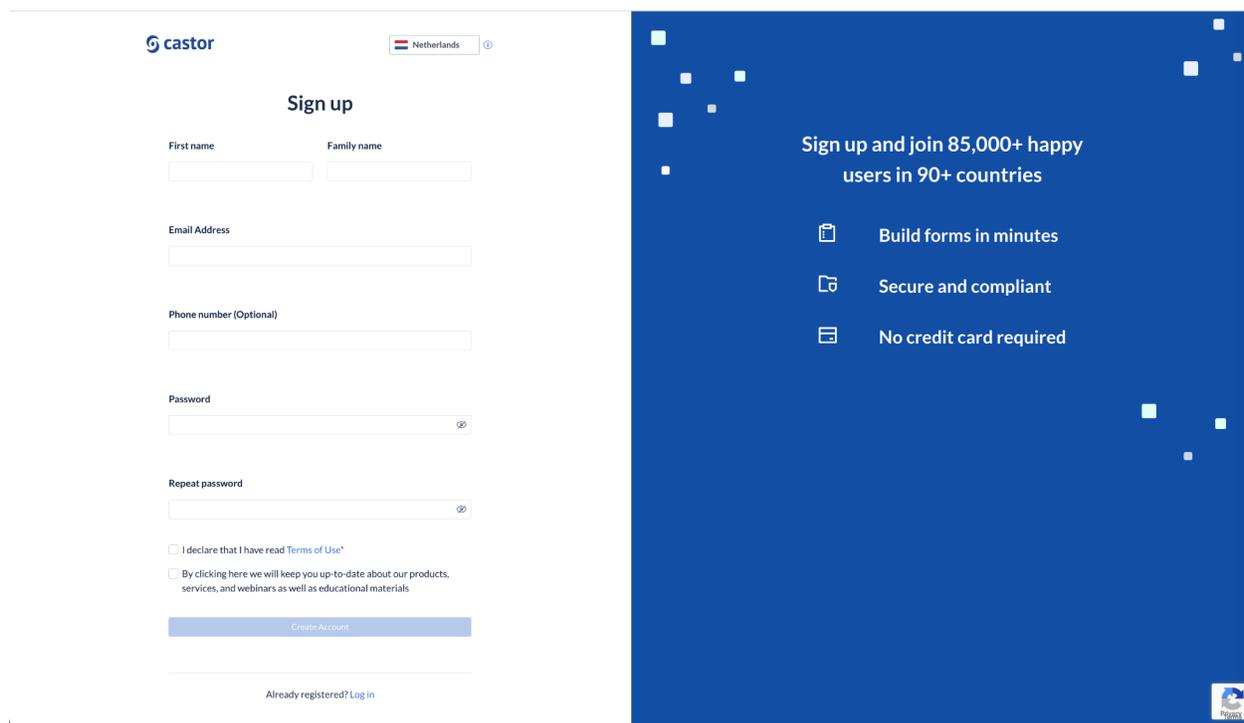
1. Register an account	4
1.1. Registration page	4
1.2. User is added to a study	5
2. Log In	6
3. Open a study	7
4. Add/Open a participant for data entry	8
5. Doing data entry	10
5.1. Elements in each question	11
5.1.1 Status icons	11
5.1.2 Additional options	13
5.1.3 Send a survey	15
5.1.4 Randomize a participant	18
5.1.5 Signing and locking a form	21
6. Participant progress	26
7. Participant status	26
7.1. Search for data	28
7.2. Visit/Form view	29
8. Creating Repeating Data	30
8.1. Adding a repeating data instance	30
8.2. Viewing repeating data	34
9. Repeated Measures	35
10. The global Repeating Data tab	36
11. Responding to queries	38
12. The global Monitoring tab	42
12.1. Queries	42
12.2. Validations	44
12.3. Verifications	45
13. Exporting data	47
13.1. How to export data	47

1. Register an account

There are two ways to register an account: a) via the registration page b) by being added to a study by a study administrator.

1.1. Registration page

You can go directly to our website to create an account before being invited to a study. You will choose the site to create your account based on the location of your study data. Navigate to one of the URLs below to access the registration page:



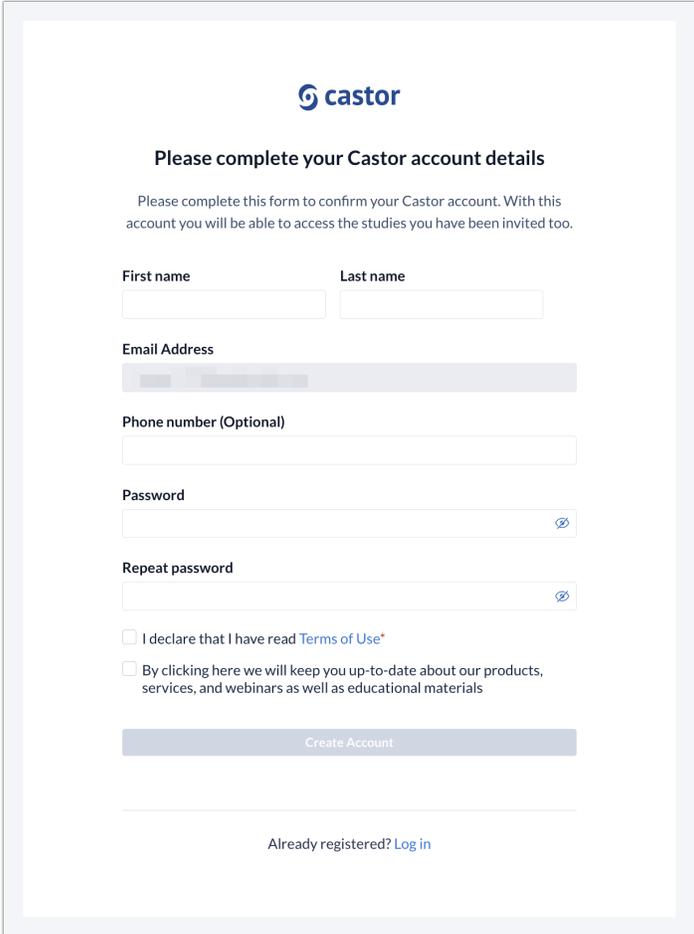
- EU Account: <https://data.castoredc.com/register>
- UK Account: <https://uk.castoredc.com/register>
- US Account: <https://us.castoredc.com/register>
- AU Account: <https://au.castoredc.com/register>

To register your Castor account:

1. Fill in your first and last name(s).
2. Enter your email address and choose a strong password, consisting of at least 8 characters, one uppercase letter, one lowercase letter and a number.
3. Enter your phone number

1.2. User is added to a study

If a study administrator has added you to a study, you will receive an invitation by email for the study for which you need to do data entry. Click on the activation link in the email and it will redirect you to the registration page. To register Castor account:



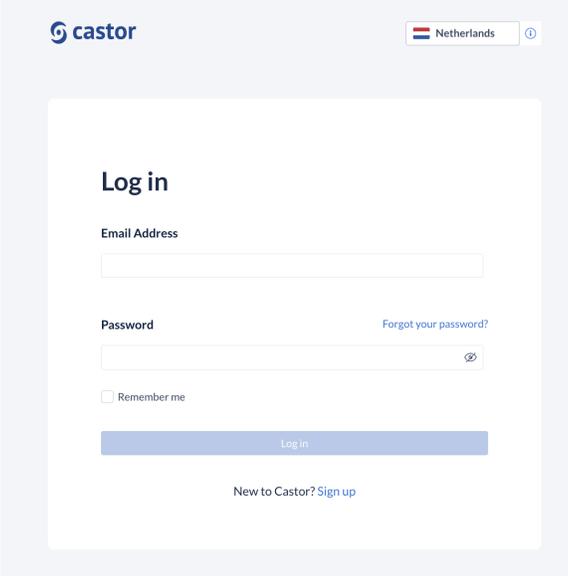
The screenshot shows a registration form for a Castor account. At the top, the Castor logo is displayed. Below it, the heading reads "Please complete your Castor account details". A sub-heading states: "Please complete this form to confirm your Castor account. With this account you will be able to access the studies you have been invited too." The form contains several input fields: "First name" and "Last name" (two separate boxes), "Email Address" (a single box with a blurred placeholder), "Phone number (Optional)" (a single box), "Password" (a box with a strength indicator icon), and "Repeat password" (a box with a strength indicator icon). Below the input fields are two checkboxes: the first is "I declare that I have read [Terms of Use](#)" and the second is "By clicking here we will keep you up-to-date about our products, services, and webinars as well as educational materials". At the bottom of the form is a "Create Account" button and a link that says "Already registered? [Log in](#)".

1. Fill in first and last name(s).
2. The email address will be pre-filled, choose a strong password, consisting of at least 8 characters, one uppercase letter, one lowercase letter and a number.
3. Click on 'Register'. Shortly after registering a user details, an email with an activation link will be sent to the email address a user has provided. Click on this link to confirm that the supplied email address belongs to a user and verify a user account.

2. Log In

To access the study, log into Castor CDMS via <https://data.castoredc.com>. If your study is on the US, AU or UK server, you can also directly go to <https://au.castoredc.com/register>, <http://us.castoredc.com> or <http://uk.castoredc.com>, respectively.

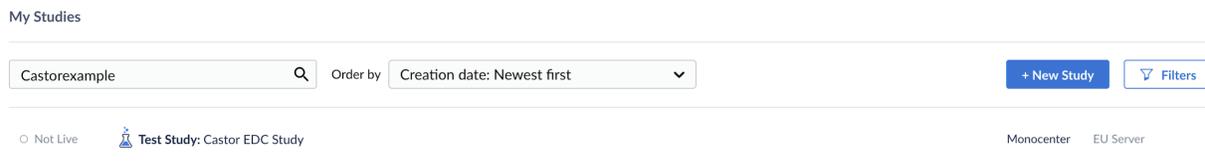
1. Choose the server that is used for your study in order to be able to access the study.
2. Enter your email address and password.
3. Click on 'Login'.



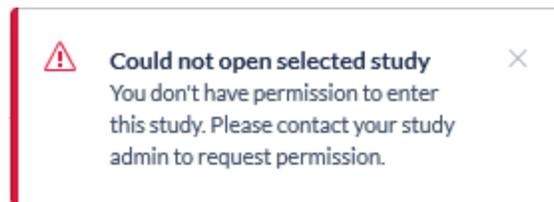
The screenshot shows the Castor login interface. At the top left is the Castor logo. At the top right, there is a dropdown menu for selecting a server, currently set to 'Netherlands'. The main content area is titled 'Log in' and contains the following elements: an 'Email Address' input field, a 'Password' input field with a 'Forgot your password?' link to its right, a 'Remember me' checkbox, a blue 'Log in' button, and a link for 'New to Castor? Sign up' at the bottom.

3. Open a study

Once you have logged into Castor EDC, you will see the 'My Studies' overview where all of the user studies (databases) are shown. If a study is live (indicated by a green button and 'Live' to the left of the study name), a user can click on the study name to enter the study and start data entry.



Trying to open a study that is not live will show the following warning:



If the study is still in maintenance mode (the button is blank, and the status says 'Not Live') a user will only be able to open the study if a user has management rights.

4. Add/Open a participant for data entry

Once a user enters the study, a user will see a list of all participants available based on their access level. To add a new participant to the database, a user will need to create a new participant participant. Creating new participant participants must be done from the Participant tab, by clicking on the “+ New” button.

The screenshot shows the 'Castor EDC Study' interface. On the left is a navigation menu with 'Participants' highlighted. The main area shows a list of participants with columns for ID, Site, Randomization, Progress, Last opened, Created on, Updated on, and Status. A '+ New' button is visible in the top right corner of the list area.

Participant ID	Site	Randomiza...	Progress	Last opene...	Created on	Updated on	Status
000004	Test Site	...	...	...	12 Aug 2022	01 Sep 2022	Not Set
000005	Test Site	...	...	...	02 Aug 2022	03 Aug 2022	Not Set
000006	Test Site	...	...	...	02 Aug 2022	01 Sep 2022	Adverse Event
000007	Test Site	...	...	...	03 Aug 2022	17 Aug 2022	Not Set
100002	Test Site	...	...	...	01 Aug 2022	03 Aug 2022	Not Set
100003	Test Site	...	...	...	01 Aug 2022	01 Sep 2022	Not Set
110003	Test Site	...	...	...	11 Aug 2022	11 Aug 2022	Not Set
110006	Main Site	...	...	...	25 Aug 2022	25 Aug 2022	Not Set

Then, select a user site and click ‘Next’. The participant will be created and opened so a user can begin data entry.

Create New Participant ×

Site

Main Site
▼

Participant ID

110007

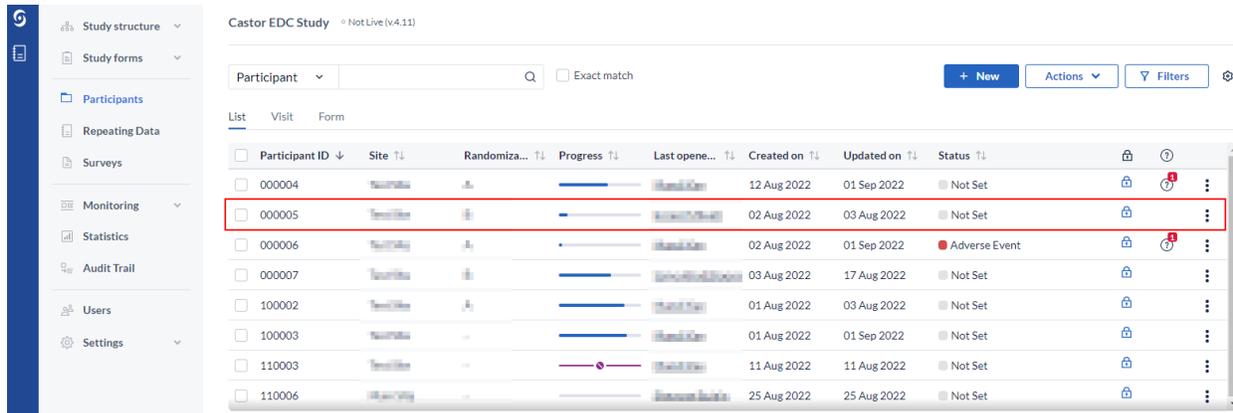
Participant email

Create another

Create

Cancel

To open a previously created participant, double click the row the participant is located on.



The screenshot shows the 'Castor EDC Study' interface. On the left is a navigation menu with options like 'Study structure', 'Study forms', 'Participants', 'Repeating Data', 'Surveys', 'Monitoring', 'Statistics', 'Audit Trail', 'Users', and 'Settings'. The main area displays a table of participants. The table has columns for 'Participant ID', 'Site', 'Randomiza...', 'Progress', 'Last opene...', 'Created on', 'Updated on', and 'Status'. The row for participant ID '000005' is highlighted with a red box. This row shows a progress bar, a 'Randomize' button, and a status of 'Not Set'. Other rows include IDs like 000004, 000006, 000007, 100002, 100003, 110003, and 110006, with various progress levels and statuses, including one 'Adverse Event'.

Participant ID	Site	Randomiza...	Progress	Last opene...	Created on	Updated on	Status
000004	Toronto	A	Progress bar	Randomize	12 Aug 2022	01 Sep 2022	Not Set
000005	Toronto	B	Progress bar	Randomize	02 Aug 2022	03 Aug 2022	Not Set
000006	Toronto	A	Progress bar	Randomize	02 Aug 2022	01 Sep 2022	Adverse Event
000007	Toronto	B	Progress bar	Randomize	03 Aug 2022	17 Aug 2022	Not Set
100002	Toronto	A	Progress bar	Randomize	01 Aug 2022	03 Aug 2022	Not Set
100003	Toronto	--	Progress bar	Randomize	01 Aug 2022	01 Sep 2022	Not Set
110003	Toronto	--	Progress bar	Randomize	11 Aug 2022	11 Aug 2022	Not Set
110006	Toronto	--	Progress bar	Randomize	25 Aug 2022	25 Aug 2022	Not Set

5. Doing data entry

When a user opens a participant, the user will be taken to the main data entry view:

The screenshot displays the Castor data entry interface for a participant. The interface is divided into several sections:

- Top Bar:** Includes a 'Back to participants' link (7), the participant ID '000004', and a 'Participant status' dropdown menu (5) set to 'Not Set'.
- Left Sidebar:** Contains navigation options for 'Participant', 'Visits', 'Repeating Data', 'Surveys', 'Monitoring', and 'Randomization'. A 'Participant' panel (2) shows a progress bar at 60% and a list of study forms: 'Screening', 'Demographics', 'Diagnosis and medical history', 'Study inclusion', 'First Study Visit', 'Follow-up', and 'Outcome'.
- Main Form:** Titled 'Screening 1. Demographics', it contains several data entry fields:
 - 1.1 Screening Visit Date: 2022-09-01 (3)
 - 1.2 Year of birth: 1990
 - 1.3 Gender: Female (radio button)
 - 1.4 Height: 170 cm
 - 1.5 Weight: 62 kg
 - 1.6 BMI: 21.45
 - 1.7 Country of origin: Netherlands (dropdown)
 - 1.8 Screening Complete?: Yes (radio button)
- Right Side:** A vertical column of cogwheel menus (4) is positioned next to the data entry fields, used for clearing data, adding comments, or marking data as missing.
- Bottom Bar:** Features 'Previous' and 'Next' buttons (6) for navigating between forms.

It consists of the following elements:

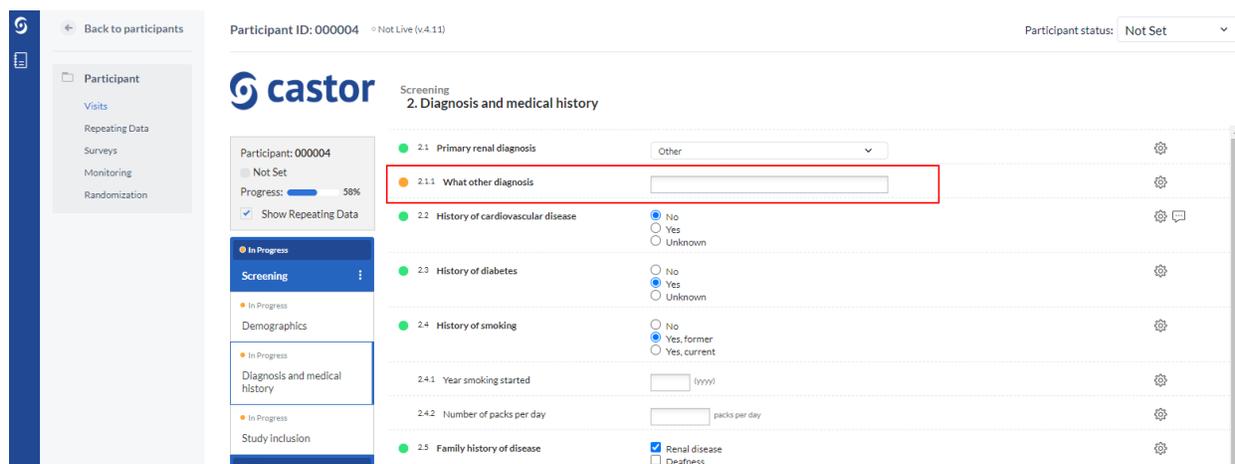
1. Participant ID, progress of completion, and participant status.
2. An overview of the study forms (visits and forms of the study). Visits consist of forms and each form contains a set of questions. A user can click on the visit of interest in this panel to start entering the required data. Once a user answers a question in the form, a user will see a small wheel turning to the left of the field and this means the data is being saved.
3. Data is entered into questions, or fields within the study form (forms).
4. Each field is accompanied by a cogwheel menu, containing options for each participant. In this menu, a user can clear the data from a field, add a comment or mark the field as 'missing' data.
5. Dropdown field displaying participant status. Click on the field to select a different status.

6. Once a user has completed the first form, a user can navigate to the next form by clicking on 'Next'. To navigate to the previous form, click on the 'Previous' button. If the user is on the first or the last form, the buttons 'Previous' and 'Next' will be grayed out.
7. To exit the participant and return to the participant list, click on the 'Back to participants' button.

5.1. Elements in each question

Depending on the type of question, a user will need to select one or more of the provided options, enter a number or date, upload a file etc.

Some fields will appear only under certain conditions. In the example below, question 2.1.1 is shown only because question 2.1 is answered with 'Other'.



5.1.1 Status icons

Shown to the left of each question is the status icon, which indicates whether the question has been answered (green) or not answered (orange). Where there is a problem with the provided answer, the icon will turn red and a red warning message will appear to provide more information about the problem.

Green The input is valid and the data is saved. For example, field 2.1 after the data has been entered and saved:

2.1 Are you 16 years of age or older? Yes
 No

Orange Data is required and no input has been entered yet. For example, field 2.3:

2.3 Are you planning to reside in this area for the next 6 months? Yes
 No

Red The input is invalid or does not comply with the inclusion criteria for the study. This is accompanied by a red warning message.

3.5.1 Error Date of consent is not entered 

 Date of consent is mandatory. Please provide the date.

No icon Data entry is not required and no input has been entered yet.

2.14.2 Pre-screen successful?

Not all values for this calculation are available (yet).

5.1.2 Additional options

To the right of each question there is a cogwheel with additional options:

The screenshot shows a participant form for 'Participant ID: 000004'. The form is titled 'Screening 2. Diagnosis and medical history'. On the left, there is a sidebar with navigation options like 'Participant', 'Visits', 'Repeating Data', 'Surveys', 'Monitoring', and 'Randomization'. The main content area lists several questions:

- 2.1 Primary renal diagnosis: dropdown menu set to 'Other'.
- 2.1.1 What other diagnosis: text input field.
- 2.2 History of cardiovascular disease: radio buttons for No, Yes, Unknown.
- 2.3 History of diabetes: radio buttons for No, Yes, Unknown.
- 2.4 History of smoking: radio buttons for No, Yes, former, Yes, current.
- 2.4.1 Year smoking started: text input field with a year mask (yyyy).
- 2.4.2 Number of packs per day: text input field with 'packs per day' label.
- 2.5 Family history of disease: checkboxes for Renal disease, Deafness, (Cardio)myopathy, Encephalopathy, Diabetes Mellitus, Hypertension/Cardiovascular disease, Thrombosis, and Malignancy.
- 2.6 Record all relevant current medications: text input field.

 A red box on the right highlights the cogwheel menu for question 2.1, which contains the following options: Clear, User missing, Comments, History, Add query, and SDV field.

- To clear the value already entered for a field, press 'Clear'.
- If data is not available for a question, tick the 'User missing' box. A window will open to ask the user to provide the reason why the data is missing:

The modal dialog box is titled 'Choose reason for missing value for field State the area name.'. It contains the following elements:

- Choose reason:** A list of radio button options:
 - Measurement failed (-95)
 - Not applicable (-96) (selected)
 - Not asked (-97)
 - Asked but unknown (-98)
 - Not done (-99)
- Comment:** A text input field containing the text 'Not applicable'.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.

- Select the appropriate option and if necessary, add a comment. Click Save to store the option and return to the question list. The field marked as 'User Missing' will be grayed out in the list and marked as 'Completed'.

- If a user initially marked a field as missing but received information for this field at a later date, a user can click on the cogwheel again (even if the question is grayed out) and should unselect the option “User missing”.
- If a user wants to add a comment to a field, press “Comments”. Add a user text and press “Add comment”:

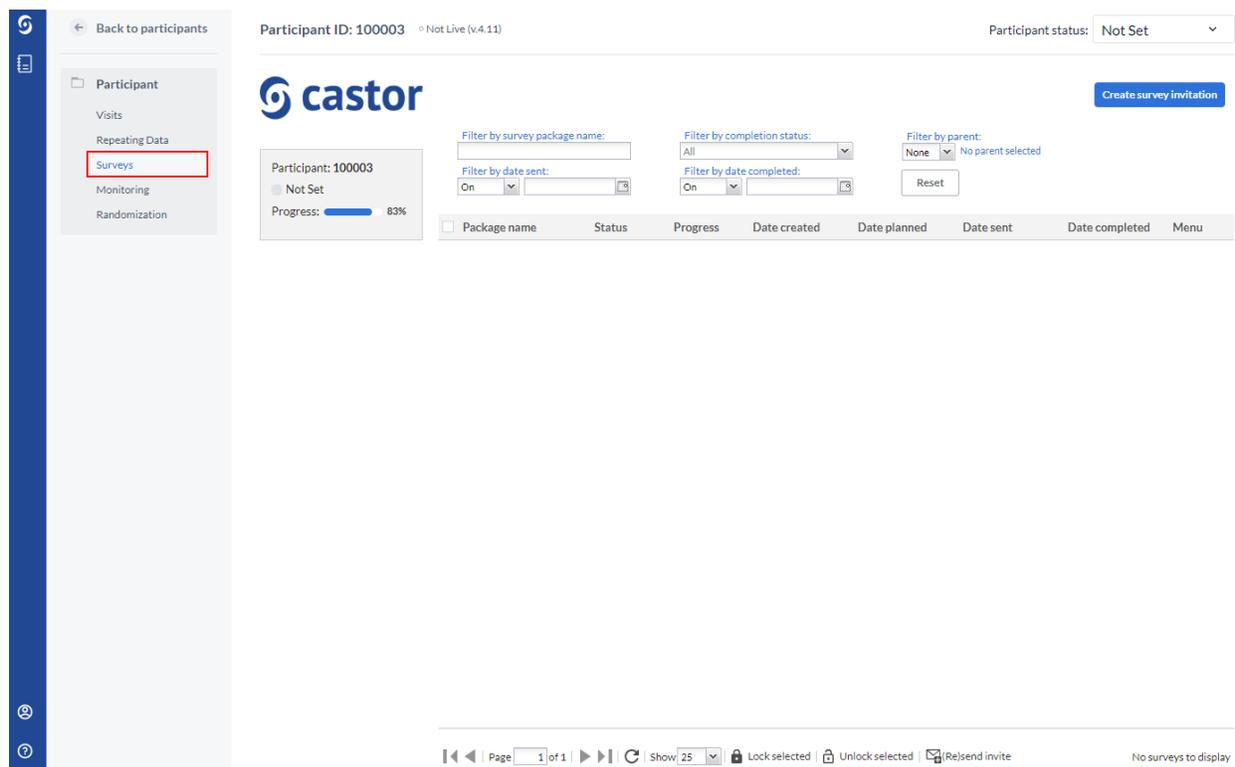


The screenshot shows a dialog box titled "Comments for field 'Severity grading'". The dialog has a blue header bar with a close button (X) on the right. The main content area is white and contains the following text: "Reason for changing the field's value to 'Missing (measurement failed)': Measurement failed." Below this text is a blue bar with the text "By: [redacted]" and "Date: 2022-01-14 16:20:45". Below the blue bar is a large white text area for entering a new comment. At the bottom of the dialog, there are two buttons: "Add comment" and "Close".

5.1.3 Send a survey

In Castor, surveys are sent out by creating survey invitations. In order to send a survey you must first have created a survey form and a survey package. Surveys are always sent in the form of survey packages, even if the package consists of only one survey.

To send a survey to a single participant, first enter the participant for that participant by navigating to the Participants tab and double-clicking on the participant of interest (or clicking the eye icon). Within the participant, navigate to the Surveys tab and click on 'Create survey invitation':



The screenshot shows the Castor web interface for a participant. On the left is a navigation sidebar with a 'Surveys' tab highlighted in red. The main content area shows the participant's details: 'Participant ID: 100003' and 'Participant status: Not Set'. A 'Create survey invitation' button is visible in the top right. Below this are several filter options: 'Filter by survey package name', 'Filter by completion status' (set to 'All'), 'Filter by parent' (set to 'None'), 'Filter by date sent', and 'Filter by date completed'. A 'Progress' bar for the participant is shown at 83%. At the bottom, there is a table header with columns: 'Package name', 'Status', 'Progress', 'Date created', 'Date planned', 'Date sent', 'Date completed', and 'Menu'. The table currently displays 'No surveys to display'. The footer includes pagination controls (Page 1 of 1), a 'Show 25' dropdown, and status indicators for 'Lock selected', 'Unlock selected', and 'Resend invite'.

A dialog window will appear - in here, you are required to select the survey package you want to send and other details of the invitation:

Create a survey package invitation ✕

Survey Package

1 Select a Survey Package... ▼

Email

2 *Email Address of the recipient*

Belongs to

3 None ▼

Subject

4 *Subject of the invitation email*

Invitation message ⓘ [Formatting cheatsheet](#)

5

Preview

6 Lock survey if finished ⓘ

Send on date / schedule

7 Now Decide later On a specific date or schedule

Save survey invitation Cancel

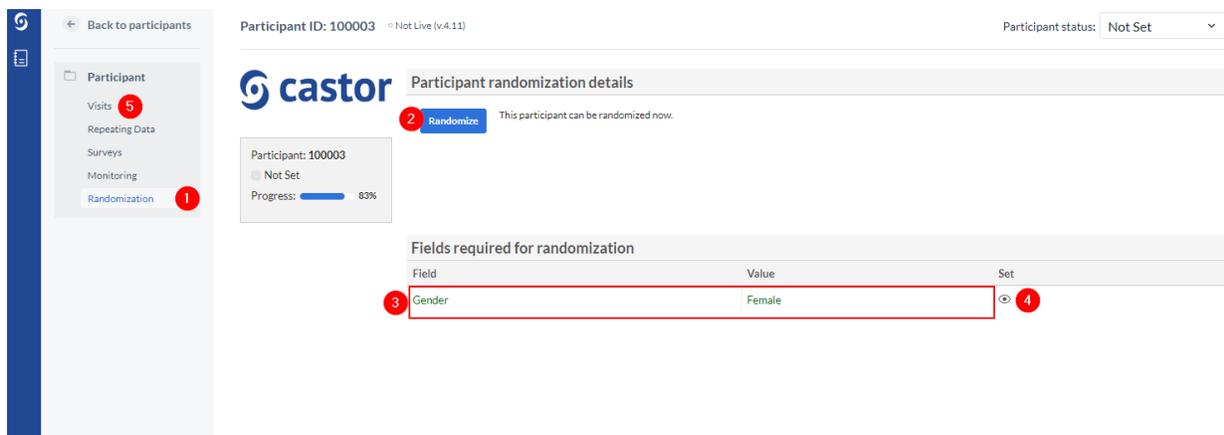
1. Select the survey package you want to send.
2. Add the email of the participant if this hasn't been previously added to the participant. If the email was already added to the participant itself, it will be automatically extracted and this section will be pre-filled with the email address. To view the address, you will need to authenticate yourself again with your password and this viewing will be logged in the audit trail. If an email address is not associated with a participant, a pop-up window will appear asking if you would like to associate the participant with this e-mail address which will be used as a primary e-mail address for the survey invitations.
3. Select a visit/repeating data of your study, if you want to attach the survey to a certain visit or repeating data. This is optional.
4. The subject of the email that the participant will receive.
5. The text of the email that the participant will receive will be drawn from your survey package settings. You can modify these here, if you wish.
6. Check this box if you want the survey to be locked after finishing. This is convenient if you want to prevent further changes being made when the subject finishes the survey.

7. Select when you want to send the survey. You have three options:
 - a. **Now** - the email invitation will be sent immediately after saving
 - b. **Decide later** - the invitation will be created but will not be sent. You will be able to define the date of sending later.
 - c. **On a specific date or schedule** - you can select a specific date when you want the survey to be sent or you can define a schedule in case you want to send the same package repetitively. You can learn more about survey schedules [here](#).
8. Click 'Save' to create the survey invitation, or click 'Cancel' to exit this dialog and discard the changes.

Please note that to enhance the security of the CDMS, we have introduced the reCAPTCHA functionality to all actions that include sending emails with custom text. Should any suspicious activities of the CDMS user be identified a reCAPTCHA challenge will be invoked.

5.1.4 Randomize a participant

If a user needs to perform randomization in the study, the user can follow these forms to randomize a participant.



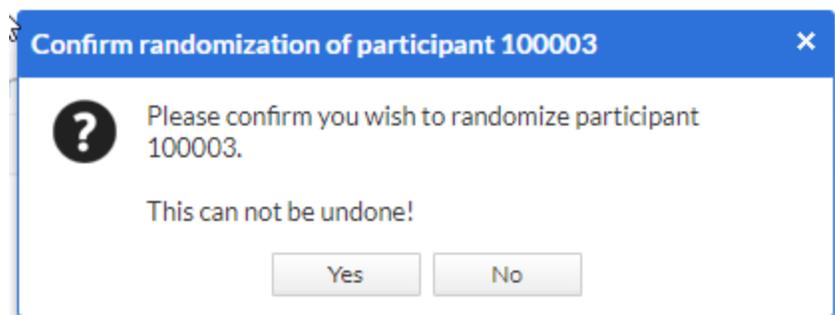
The screenshot displays the 'Participant randomization details' page for Participant ID: 100003. The participant status is 'Not Set'. A progress bar indicates 83% completion. A table titled 'Fields required for randomization' lists the following field:

Field	Value	Set
Gender	Female	<input type="checkbox"/>

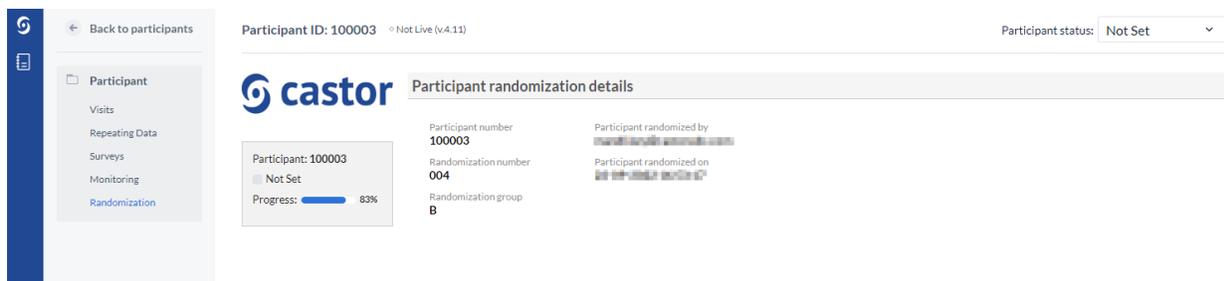
1. From the participant overview, select the 'Randomization' sub-tab.
2. Click the 'Randomize' button to randomize the participant.
3. Fields required for randomization are summarized in the lower right of the tab.

4. If the required fields for randomization have not been completed, click the eye icon () to be taken to the required field in the CRF.
5. Click on the 'Visits' tab to return to the study forms after the participant has been randomized.

A window will appear and ask to confirm the randomization, advising that randomization cannot be undone once confirmed.



The randomization tab will now display the randomization group and the randomization number and other relevant information. This tab is only visible for users with randomization rights.



After randomizing a participant, to continue the data entry, click on the 'Visits' button:

Participant ID: 100003 Not Live (v4.11) Participant status: **Not Set**

Participant randomization details

Participant number	100003	Participant randomized by	[Redacted]
Randomization number	004	Participant randomized on	[Redacted]
Randomization group	B		

Participant: 100003
 Not Set
 Progress: 83%

This will open the data entry overview for this participant:

Participant ID: 100003 Not Live (v4.11) Participant status: **Not Set**

First Study Visit 4. Physical exam

Participant: 100003
 Not Set
 Progress: 83%

- In Progress** Screening
- In Progress** First Study Visit
- Completed** Physical exam
- In Progress** Blood test
- Completed** Concomitant medication
- Completed** Adverse Events
- Completed** Follow-up
- Completed** Outcome

4.1 Date of visit	2020-12-01	(YYYY-MM-DD)
4.2 Is Visit 1 date before the Screening Visit date?	Yes	
4.3 Weight	78	kg
4.4 Height	173	cm
4.5 BMI	78	kg/m ²
4.6 Heart rate	64	Beats per minute

4.7 Blood pressure measurements - measure in all positions

Created on	Measureme...	Systolic pres...	Diastolic pr...	Antihyperte...	Date and ti...
Add measurement					

4.8 Is Visit 1 date before the Screening Visit date? Yes

[Previous](#) [Next](#)

To get back to the global Participants tab with an overview of all Participants, click the 'Back to participants' button:

Participant ID: 100003 Not Live (v4.11) Participant status: Not Set

Participant: 100003
Not Set
Progress: 83%

First Study Visit
4. Physical exam

- 4.1 Date of visit: 2020-12-01
- 4.2 Is Visit 1 date before the Screening Visit date?: Yes
- 4.3 Weight: 78 kg
- 4.4 Height: 173 cm
- 4.5 BMI: 78 kg/m²
- 4.6 Heart rate: 64 Beats per minute

4.7 Blood pressure measurements - measure in all positions

Created on	Measureme...	Systolic pres...	Diastolic pr...	Antihyperte...	Date and ti...
Add measurement					

4.8 Is Visit 1 date before the Screening Visit date?: Yes

[Previous](#) [Next](#)

This will open the global 'Participants' tab with all participants.

5.1.5 Signing and locking a form

A user can electronically sign and/or lock individual visits and forms in Castor EDC. Users will need the appropriate rights in order to do so.

The screenshot displays the Castor eCRF interface for a participant with ID 100003. The page title is "First Study Visit 4. Physical exam". The participant's status is "Not Set". The interface shows a list of visits on the left sidebar, with "Physical exam" selected. The main content area displays the details for the "Physical exam" visit, including fields for Date of visit, Is Visit 1 date before the Screening Visit date?, Weight, Height, BMI, and Heart rate. A context menu is open over the "Physical exam" visit, with the "Sign this form" option highlighted. The menu also includes options for "Mark form as missing", "Lock this form", "Custom verification", "SDV this form", and "Print this form".

1. Hover over the right side of a form or visit with the cursor. Click on the three dots that appear.
2. Click on 'Sign this visit' for visits or 'Sign this form' for forms.
3. The user will be prompted to enter his/her email address and password to confirm their identity.
4. Click 'Sign' to confirm and to sign the visit or form. If a user wishes to also lock this visit, the user will tick the 'Lock visit and child forms' checkbox.
5. The user will receive a confirmation that the audit trail has been updated. Upon signing the next visit/form, only the password will be required.

The visit or form will be updated with icons to reflect that it has been signed and/or locked:

Participant: 100003

Not Set

Progress: 83%

● In Progress	
Screening	⋮
● In Progress	✍️ 🔒
First Study Visit	⋮
● Completed	✍️ 🔒
Physical exam	
● In Progress	✍️ 🔒
Blood test	
● Completed	✍️ 🔒
Concomitant medication	
● Completed	✍️ 🔒
Adverse Events	

A banner will also be displayed at the top of the data entry screen, warning the user that the current form has been signed and/or locked including the date, time and user who applied signature or locked a visit or a form:

Team

1. Identification of the team

	This step was signed on [redacted]	Unsign
	This step was locked on [redacted]	Unlock

	1.1 Country Code	[redacted]	
	1.2 Team ID	[redacted]	
	1.3 Team ID (Country Code + ID)	[redacted]	
	1.4 Team Country	[redacted]	
	1.5 Location	[redacted]	
	1.6 Type of team	[redacted]	

If a user does not have view rights for all the forms, they are notified about the signature being applied only to forms for which viewing rights have been granted.

If a user has lock rights, a user can also choose to lock a visit or a form to prevent further data entry directly from the participant navigation.

Participant: 100003

Not Set

Progress: 83%

- In Progress
- Screening
- In Progress
- Demographics
- In Progress
- Diagnosis and medical history
- In Progress
- Study inclusion
- In Progress
- First Study Visit
- Completed
- Follow-up

	1.1 Screening Visit Date	2022-07-01	(YYYY-MM-DD)	
Please complete the inclusion criteria for this subject.				
	1.2 Year of birth	1986	(yyyy)	
	1.3 Gender	<input type="radio"/> Female <input type="radio"/> Male		
Not be changed as it was used for randomization of this record.				
		173	cm	
		78	kg	
		26.06		
	1.7 Country of origin	Netherlands		
	1.8 Screening Complete?	<input type="radio"/> Yes <input type="radio"/> No		

-
-
- Lock this visit
- Sign this visit
- Custom verification
- SDV visit & forms only (no fields)
- Print this visit
- Add a repeating data instance to this visit

1. Navigate to the right side of a form or visit and click on the three dots that appear.

2. Click on '(Un)Lock this visit' for visits or '(Un)Lock this form' for forms.

6. Participant progress

In the left panel in the data entry, a user can view the progress of the forms which will update as a user fills in the data.

Participant: 100003
 Not Set
 Progress: 87%

In Progress
 Screening

Completed
 Demographics

In Progress
 Diagnosis and medical history

In Progress
 Study inclusion

In Progress
 First Study Visit

Completed
 Follow-up

Completed
 Outcome

1.1 Screening Visit Date: 2022-07-01 (YYYY-MM-DD)

Please complete the inclusion criteria for this subject.

1.2 Year of birth: 1986 (yyyy)

1.3 Gender: Female Male
 This field value cannot be changed as it was used for randomization of this record.

1.4 Height: 173 cm

1.5 Weight: 78 kg

1.6 BMI: 26.06

1.7 Country of origin: Netherlands

1.8 Screening Complete?: Yes No

A form can have three different completion stages:

- Gray Not started
- Orange In Progress
- Green Completed

The overall participant progress bar shown in the visit tab (blue) will also update automatically. Once all required fields have been completed, the icon will turn green.

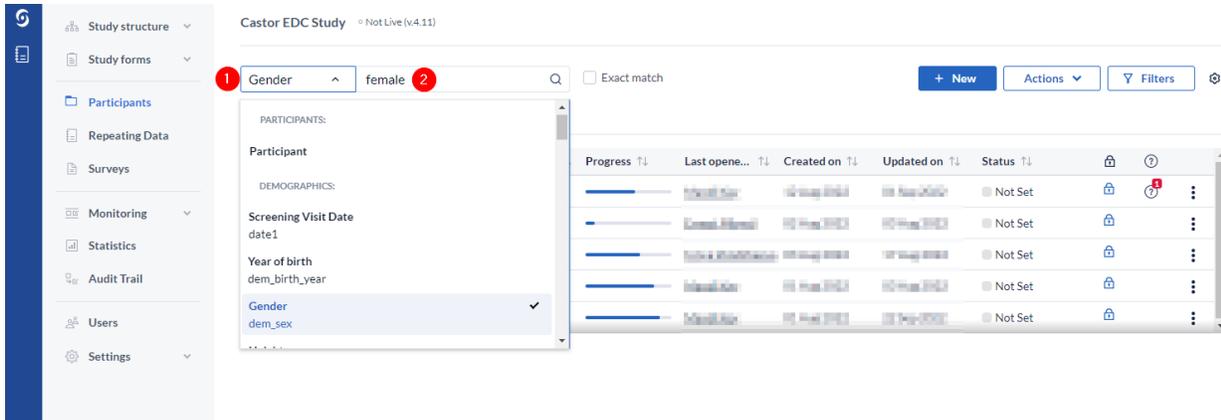
7. Participant status

In the Participants tab, a list is displayed showing all participants a user has created (see Section 6). The user may also see participants that have been created by other users at the site.

1. In the 'Participants' tab, a search box is available, in which you can search for a particular participant ID. More information on the search is provided in section 7.1.
2. It is possible to change the view mode to show the progress of the participants by visits or forms (see section 7.2).
3. Progress: This column will show you the status of completion for each participant. The same color scheme as for the forms applies (see section 6). The purple bar with a pencil icon indicates that an exclusion validation has been triggered for this participant. You can double click on any participant to directly access it.
4. Queries: displays the number of queries created for a participant.
5. By default, all participants are shown, however you can use the 'Filters' button to filter the participants based on different parameters.

7.1. Search for data

A user can use the search bar to find participants that contain certain data, for example if a user wants to find the patients with a certain age at onset.

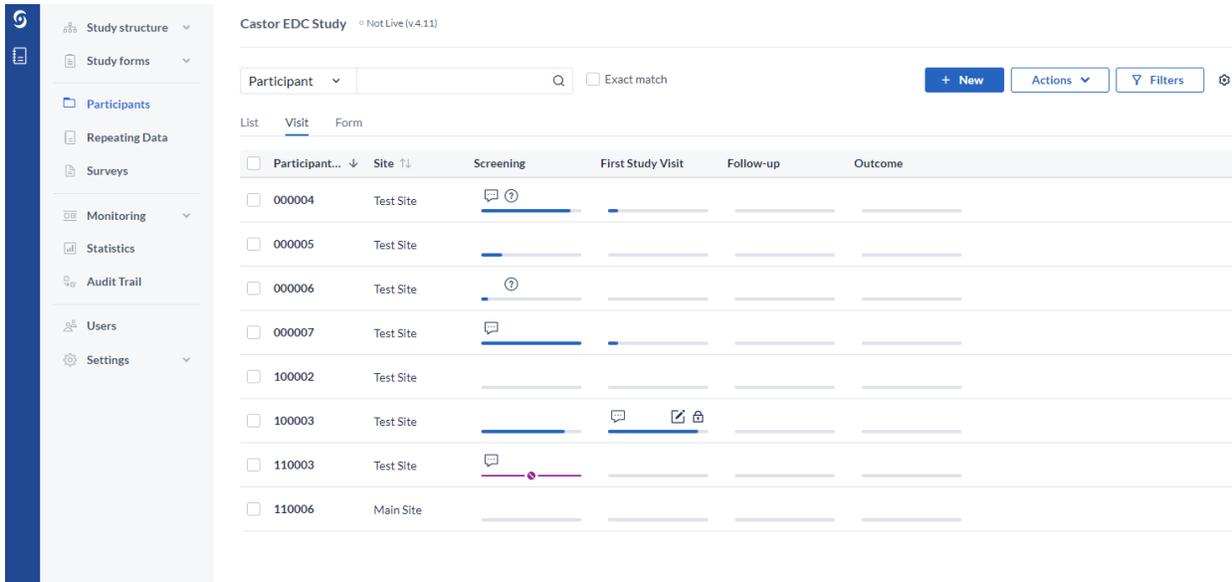


The screenshot shows the Castor EDC Study interface. On the left is a navigation menu with options like Study structure, Study forms, Participants, Repeating Data, Surveys, Monitoring, Statistics, Audit Trail, Users, and Settings. The main area displays a search bar with 'Gender' selected (indicated by a red circle '1') and 'female' entered (indicated by a red circle '2'). Below the search bar, a dropdown menu shows 'Gender' and 'dem_sex' as options. To the right, a table lists participants with columns for Progress, Last opened, Created on, Updated on, and Status. The table shows several rows of data, with the first row having a status of 'Not Set'.

1. Click on the arrow in the right search box and find the field (question) of interest. In this example 'Gender' field is selected.
2. Enter the value of interest in the left search box (in this example female) and all matching participants will be displayed.

7.2. Visit/Form view

By default, the 'Participants' tab displays all participants in the "List" view. You can change the view mode to either Visit view or Form view.



Participant...	Site	Screening	First Study Visit	Follow-up	Outcome
<input type="checkbox"/> 000004	Test Site				
<input type="checkbox"/> 000005	Test Site				
<input type="checkbox"/> 000006	Test Site				
<input type="checkbox"/> 000007	Test Site				
<input type="checkbox"/> 100002	Test Site				
<input type="checkbox"/> 100003	Test Site				
<input type="checkbox"/> 110003	Test Site				
<input type="checkbox"/> 110006	Main Site				

This will show you the status of completion of each visit or form for each participant by clicking on "Visit" or "Form". The same color scheme as for the forms applies (see section 6). You can double click on any visit or form to directly access it.

When in the "Visit" or "Form" view on the participants tab you can also sort the "Participant" and "Site" columns in ascending or descending order.

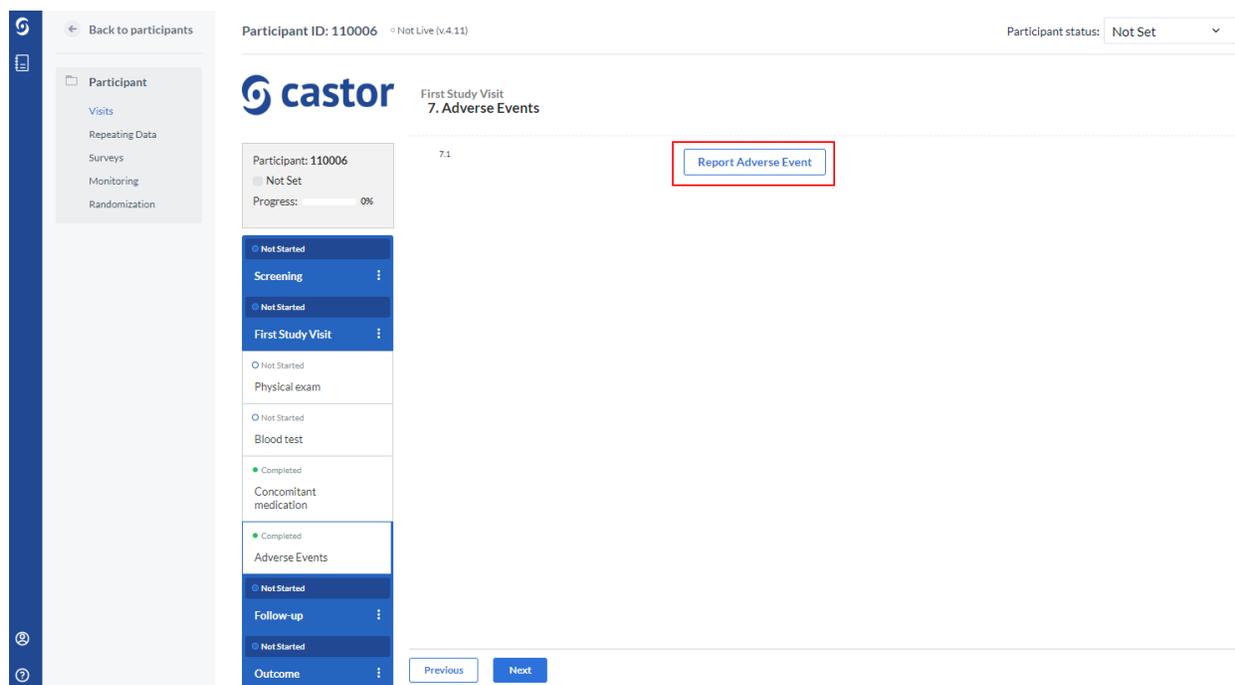
8. Creating Repeating Data

Repeating data can be used to register items such as adverse events (AE), vital signs, and/or any other data which is not part of the main study protocol, for instance any unexpected hospital visits or emergency surgical procedure.

8.1. Adding a repeating data instance

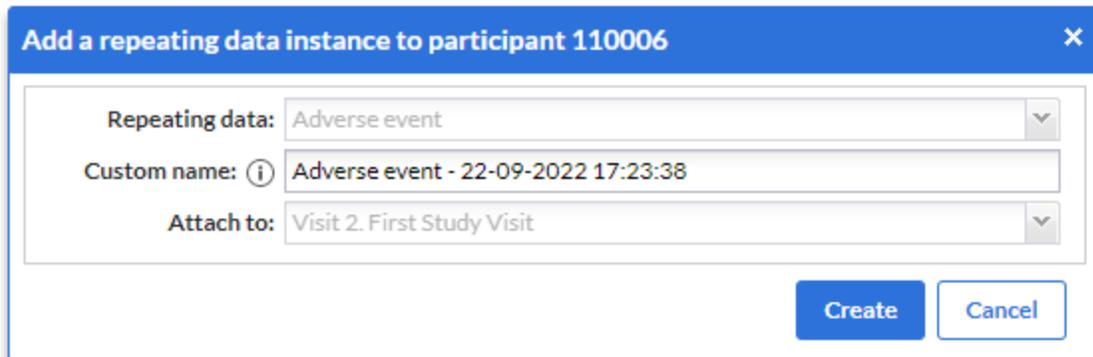
There are two ways to add a repeating data instance to a participant: 1) via an Add Repeating data button directly in a form, or 2) via the Repeating data tab.

To add a repeating data via the repeating data button, navigate to the form and click on the 'Add repeating data button' in the relevant form. Please note that the repeating data button might have a different name in your study:



The screenshot displays the Castor web application interface for a participant with ID 110006. The participant's status is 'Not Set'. The current view is for the 'First Study Visit 7. Adverse Events'. A 'Report Adverse Event' button is highlighted with a red box. The interface shows a progress bar for 'Not Set' at 0%. The sidebar on the left contains navigation options: Participant, Visits, Repeating Data, Surveys, Monitoring, and Randomization. The main content area shows a list of visit events: Screening (Not Started), First Study Visit (Not Started), Physical exam (Not Started), Blood test (Not Started), Concomitant medication (Completed), Adverse Events (Completed), Follow-up (Not Started), and Outcome (Not Started). Navigation buttons for 'Previous' and 'Next' are visible at the bottom.

The following dialog window will appear:



1. Repeating Data: this field contains the repeating data type which is pre-filled
2. Custom name: Enter a custom name for the repeating data, this is how the repeating data will be displayed in the study and exports. In some cases, the custom name won't be editable, as the study admin can disable the option to adjust the repeating data name.
3. Attach to: this is a visit to which a repeating data will be linked by default. When creating a repeating data using the 'Add Repeating Data' button, this field will be pre-filled.
4. Click the 'Create' button to add the new repeating data.
5. Proceed with the data entry for the repeating data.

Participant ID: 110006 Not Live (v4.11) Participant status: Not Set

Participant: 110006
Not Set
Progress: 0%

Event details

4 Severity
 Mild
 Moderate
 Severe
 Life-threatening

5 Relationship to intervention
 Not related
 Unlikely related
 Possibly related
 Probably related
 Definitely related

6 Action taken regarding intervention
 None
 Dose modification
 Medical intervention
 Hospitalization
 Intervention discontinued
 Other

7 Outcome of AE
 Resolved
 Recovered with major sequelae
 Recovered with minor sequelae
 Ongoing / continuing treatment
 Condition worsening
 Death
 Unknown

8 Expected?
 Yes
 No

Buttons: Close repeating data (highlighted), All repeating data, Add another, Previous, Next

- Once the data for a repeating data is complete, click on the 'Close repeating data' to return to the main study form.

The added repeating data will be linked to the visit where this repeating data was created:

← Back to participants

Participant ID: 110006 Not Live (v4.11) Participant status: Not Set

First Study Visit
7. Adverse Events

Participant: 110006
Not Set
Progress: 0%

7.1 [Report Adverse Event](#)

- Not Started
- Screening
- Not Started
- First Study Visit
- Not Started
Physical exam
- Not Started
Blood test
- Completed
Concomitant medication
- Completed
Adverse Events
- In Progress
Repeating Data
Adverse event - 22-09-2022 17:23:38
- Not Started

[Previous](#) [Next](#)

8.2. Viewing repeating data

It is possible to view the repeating data instances which are attached to the participant by using the 'Repeating data' tab:

The screenshot shows the 'Repeating Data' tab for a participant with ID 000005. The participant's status is 'Not Set' and their progress is 11%. The interface features several filter controls: 'Filter by Repeating Data type', 'Filter by Repeating Data', and 'Filter by status'. Below these filters is a table of repeating data instances. The table has columns for Status, Repeating Data, Name, Type, Created on, Created by, and Assigned to. Three instances are listed, all of which are 'Medication' and 'Repeated measure' type, created by 'Marcela Reis' on '2022-08-03'. The first two instances have a green status indicator, while the third has a grey one.

Status	Repeating Data	Name	Type	Created on	Created by	Assigned to
●	Medication	Medication - 03-08-2...	Repeated measure	2022-08-03 15:49:27	Marcela Reis	First Study Visit
●	Medication	Medication - 03-08-2...	Repeated measure	2022-08-03 15:50:55	Marcela Reis	First Study Visit
○	Medication	Medication - 03-08-2...	Repeated measure	2022-08-03 15:51:19	Marcela Reis	First Study Visit

1. Opening the participant and navigating to the 'Repeating Data' tab will display the repeating data overview.
2. A user can filter by repeating data type, repeating data type, repeating data name, or by the visit to which a repeating data instance is linked.
3. The list of repeating data instances linked to the selected participant. A status indicator allows a user to see the completion status of the repeating data instance.

9. Repeated Measures

In main data entry view, the repeated measure field looks like this:

The screenshot shows the Castor data entry interface for a participant with ID 100003. The main content area is titled '2. Diagnosis and medical history'. It contains several sections: '2.3 History of diabetes', '2.4 History of smoking', '2.5 Family history of disease', and '2.4 Record all relevant current medications'. The '2.4 Record all relevant current medications' section is highlighted with a red box and contains a table with the following data:

Created on	Name	Start date	Stop date	Dose	Units	
2022-09-22	Thiazide diu...	01-09-2022	30-09-2022	10	mg/day	
2022-09-22	ACE inhibito...	01-09-2021	30-09-2022	25	mg/day	

Below the table is an 'Add measurement' button. The interface also shows a sidebar with navigation options like 'Visits', 'Repeating Data', 'Surveys', 'Monitoring', and 'Randomization'. The participant's progress is shown as 87%.

1. By selecting 'Add measurement', measurements are easily added to the form and will be shown in the form of a grid, representing each measurement as a new row and each field that is part of the repeated measure as a separate column.
2. Each measurement will be saved as a new repeating data and will appear in the 'Repeating Data' tab and will be attached to the visit (or repeating data) where the repeated measure field is located.

10. The global Repeating Data tab

In the 'Repeating Data' tab, an overview of all the repeating data instances within the study are shown. A user can only see repeating data instances from participants that belong to a site for which they have "View" rights:

Castor EDC Study v4.11

Filter by site: All Sites | Filter by name: | Filter by Repeating Data type: Select Repeating Data type to filter | Filter by status: Unarchived

Filter by participant id: | Filter by Repeating Data: Select Repeating Data to filter | Filter by visit: Select visit to filter | Reset

Status	Participant ID	Repeating Data	Name	Type	Created on	Created by	Assigned to	Menu
●	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-08 11:44:27	thomas@castor.com	First Study Visit	⚙️
●	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-08 11:44:24	thomas@castor.com	First Study Visit	⚙️
○	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-08 11:44:21	thomas@castor.com	First Study Visit	⚙️
○	110003	Adverse event	Adverse event - 11-08-...	Adverse Event	2020-08-08 17:40:58	thomas@castor.com	No parent	⚙️
●	100003	Blood Pressure	Blood pressure - 15-08-...	Repeated measure	2020-08-08 09:26:57	vera@castor.com	No parent	⚙️
○	000004	Serious Adverse Event	Serious Adverse Event ...	Adverse Event	2020-08-08 11:51:49	thomas@castor.com	No parent	⚙️
○	000006	Serious Adverse Event	Serious Adverse Event ...	Adverse Event	2020-08-08 14:02:47	thomas@castor.com	No parent	⚙️
●	000004	Serious Adverse Event	Serious Adverse Event ...	Adverse Event	2020-08-08 14:02:48	thomas@castor.com	First Study Visit	⚙️
●	000004	Blood Pressure	Blood pressure - 18-08-...	Repeated measure	2020-08-08 09:26:58	thomas@castor.com	No parent	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:58	thomas@castor.com	Follow-up	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:59	thomas@castor.com	Follow-up	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:59	thomas@castor.com	Follow-up	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:59	thomas@castor.com	Follow-up	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:59	thomas@castor.com	Follow-up	⚙️
○	000004	Blood Pressure	Serious Adverse Event ...	Repeated measure	2020-08-08 17:40:59	thomas@castor.com	Follow-up	⚙️
●	100002	Serious Adverse Event	Serious Adverse Event ...	Adverse Event	2020-08-08 17:38:58	thomas@castor.com	No parent	⚙️
●	110006	Adverse event	Adverse event - 22-09-...	Adverse Event	2020-09-08 17:38:59	thomas@castor.com	First Study Visit	⚙️

Page 1 of 1 | Displaying participants 1 - 18 of 18

1. A user can make use of the filters in the top panel. For example, a user can filter on site, on participant ID, or on repeating data type. A user can also click on the column labels to sort the repeating data instances in a relevant order.
2. An overview of all repeating data instances are shown, with the completion level and other details such as name, date and creator. For example, a user can sort by the date of creation of the repeating data instance by clicking on the 'Created on'.
3. A user can archive or print a repeating data instance using the cogwheel menu.
4. The column label turns bold when the user clicks once to apply ascending or descending order. Upon selecting the column header the first time the order will appear as ascending, if a user clicks once again, the order will be descending. A user can also click on the arrowhead next to a column to display an additional menu for repeating data columns. Here, a user can select whether to sort on ascending or descending and a user can also deselect the columns that the user doesn't want to see in a user overview. By default, all columns are visible.

- Study structure
- Study forms
- Participants
- Repeating Data
- Surveys
- Monitoring
- Statistics
- Audit Trail
- Users
- Settings

Castor EDC Study Not Live (v4.11)

Filter by site:
 Filter by name:
 Filter by Repeating Data type:
 Filter by status:

Filter by participant id:
 Filter by Repeating Data:
 Filter by visit:

Status	Participant ID	Repeating Data	Name	Type	Created on	Created by	Assigned to	Menu
●	100002	Serious Adverse Event	Serious Adverse Event	Adverse Event	2020-08-04 17:28:04	Medicallife	No parent	⚙
○	000004	Blood Pressure	Blood Pressure	Repeated measure	2020-08-04 17:28:04	Medicallife	Follow-up	⚙
○	000004	Blood Pressure	Blood Pressure	Repeated measure	2020-08-04 17:28:04	Medicallife	Follow-up	⚙
○	000004	Blood Pressure	Blood Pressure	Repeated measure	2020-08-04 17:28:04	Medicallife	Follow-up	⚙
○	000004	Blood Pressure	Blood Pressure	Repeated measure	2020-08-04 17:28:04	Medicallife	Follow-up	⚙
○	000004	Blood Pressure	Blood Pressure	Repeated measure	2020-08-04 17:28:04	Medicallife	Follow-up	⚙
●	000004	Serious Adverse Event	Serious Adverse Event	Adverse Event	2020-08-04 17:28:04	Medicallife	First Study Visit	⚙
○	000006	Serious Adverse Event	Serious Adverse Event	Adverse Event	2020-08-04 17:28:04	Medicallife	No parent	⚙
○	000004	Serious Adverse Event	Serious Adverse Event	Adverse Event	2020-08-04 17:28:04	Medicallife	No parent	⚙
●	100003	Medication	Medication - 22-09-202...	Repeated measure	2020-08-04 17:28:07	Medicallife	Screening	⚙
●	100003	Medication	Medication - 22-09-202...	Repeated measure	2020-08-04 17:28:04	Medicallife	Screening	⚙
○	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-04 17:28:07	Medicallife	First Study Visit	⚙
●	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-04 17:28:07	Medicallife	First Study Visit	⚙
●	000005	Medication	Medication - 03-08-202...	Repeated measure	2020-08-04 17:28:07	Medicallife	First Study Visit	⚙
●	000004	Blood Pressure	Blood pressure - 18-08-...	Repeated measure	2020-08-04 17:28:04	Medicallife	No parent	⚙
●	100003	Blood Pressure	Blood pressure - 15-08-...	Repeated measure	2020-08-04 17:28:07	Medicallife	No parent	⚙

11. Responding to queries

If a monitor has placed a query on a participant, this query icon appears on the participant list in the Queries column.

Castor EDC Study - Not Live (v4.11)

Participant ID: 000006 - Not Live (v4.11)

Participant ID	Site	Randomiza...	Progress	Last opene...	Created on	Updated on	Status	Queries
000004	Test Site	A	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
000005	Test Site	B	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
000006	Test Site	A	██████████	██████████	03 Sep 2022	03 Sep 2022	Adverse Event	👁️
000007	Test Site	B	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
100002	Test Site	A	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
100003	Test Site	B	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
110003	Test Site	-	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️
110006	Main Site	-	██████████	██████████	03 Sep 2022	03 Sep 2022	Not Set	👁️

Users with only data-entry rights can see all queries for a participant on the participant's 'Monitoring' tab.

Participant ID: 000006 - Not Live (v4.11)

Participant status: Adverse Eve...

Monitoring

Participant: 000006
Adverse Event
Progress: 4%

Queries 1 Validations Dropped Verifications

Site	Created on	Created By	Last updated by	Closed by	Location	First Remark
Test Site	01 Sep 2022	Mandi Key	Mandi Key		Visit Screening	Please fill in missing data

1. The participant's monitoring overview opens on the query tab.
2. Queries can be filtered by the query status, location, created/updated by, days in current status, and days since opened.
3. Clicking on the eye icon, will take a user to the field where the query was placed.

Queries are shown as a circle and the status is indicated by the sign within it as well as the color.

New: This query has not been reviewed.

Open: This query was viewed but a change of status or comment was not made.

Unconfirmed: The user does not agree with the monitor.



Confirmed: The user agrees with the monitor and will try to resolve the issue.



Resolved: The user has changed the value and indicates the issue is resolved, for example the user has reacted to a query and left a comment.



Closed: The monitor indicates the issue is resolved and marks the query as closed. Only users with query rights can close a query.



Once the user has accessed the participant, a user will see the status icon next to the queried field. To respond to a query, a user needs to click on the query icon next to a field.

← Back to participants

Participant

- Visits
- Repeating Data
- Surveys
- Monitoring
- Randomization

In Progress

Screening

In Progress

Demographics

In Progress

Diagnosis and medical history

In Progress

Study inclusion

In Progress

First Study Visit

Not Started

Follow-up

Not Started

Outcome

Participant ID: 000004 Not Live (v4.11)

Participant status: Not Set



Screening
2. Diagnosis and medical history

Participant: 000004
Not Set
Progress: 58%
 Show Repeating Data

2.1 Primary renal diagnosis

2.1.1 What other diagnosis

2.2 History of cardiovascular disease
 No
 Yes
 Unknown

2.3 History of diabetes
 No
 Yes
 Unknown

2.4 History of smoking
 No
 Yes, former
 Yes, current

2.4.1 Year smoking started

2.4.2 Number of packs per day packs per day

2.5 Family history of disease
 Renal disease
 Deafness
 Cardiomyopathy
 Encephalopathy
 Diabetes Mellitus
 Hypertension/Cardiovascular disease
 Thrombosis
 Malignancy

2.6 Record all relevant current medications

Add measurement

Previous Next

A dialog window will appear:

Queries for field What other diagnosis
×

Select a query

Query 1
▼

Change status

Resolved
▼

Remark

Data has been entered

Added by

Richard Ray

Date

2022-04-22 10:00:00

Remark

Data has not been entered.

Save changes

Cancel

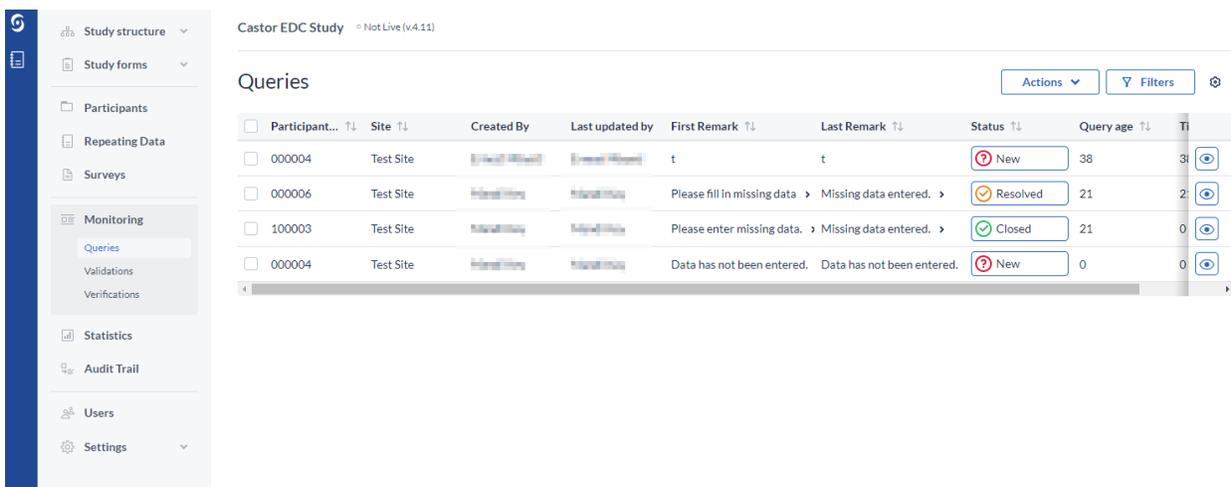
1. In case of multiple queries, a user can select a query to which a user needs to respond.
2. A user can change the status of a query by choosing from the list in the dropdown box.
3. The Remark field allows a user to enter comments on the query.
4. Once a user selects 'Save changes' the status and comment will be saved.
5. All saved remarks are added to the list.

12. The global Monitoring tab

The 'Monitoring' tab gives an overview of all the queries, data validations and dropped verifications in a study. Only users with edit rights can view the 'Monitoring' tab, which contains overviews of queries, data validations and verifications.

12.1. Queries

The 'Monitoring' tab contains three subtabs. Open the 'Queries' tab to access the queries overview:



Castor EDC Study - Not Live (v4.11)

Queries

Participant...	Site	Created By	Last updated by	First Remark	Last Remark	Status	Query age	TI
000004	Test Site	[User]	[User]	t	t	New	38	3
000006	Test Site	[User]	[User]	Please fill in missing data	Missing data entered.	Resolved	21	2
100003	Test Site	[User]	[User]	Please enter missing data.	Missing data entered.	Closed	21	0
000004	Test Site	[User]	[User]	Data has not been entered.	Data has not been entered.	New	0	0

1. The user can click on the 'Filters' button to filter by site, location, status (open, resolved, closed or all [Monitoring queries](#)), and other parameters.
2. An overview of all queries in the study (unless a user filtered the results) are displayed here.
3. Click on the eye icon to open a form and view the field which contains the query.

By clicking on the status, the queries can be sorted based on the associated participant ID or by creation date. Clicking the status icon next to a query opens a window, in which all comments related to the query can be reviewed . It is also possible to add a remark and change the status of the query, if necessary.

Queries for field Was a Covid test performed? ✕

Status: 🔔 New Change to: ▼

Remarks

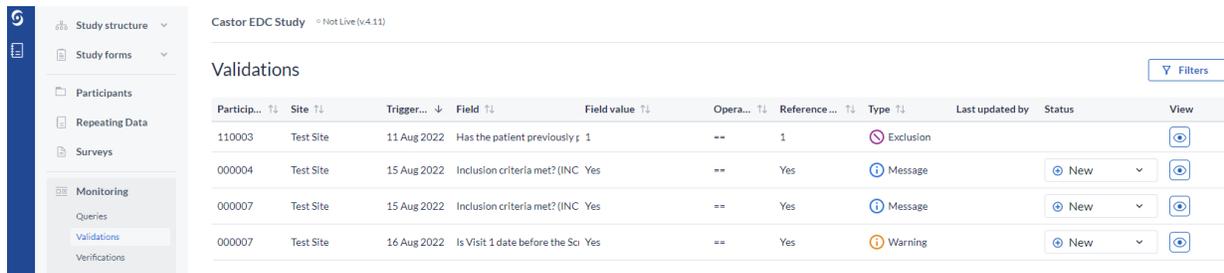
Please confirm the missing data

By ██████████ Date 2022-01-11 21:54:50

New Remark

12.2. Validations

The 'Validations' sub-tab displays all active validation fields in study, repeating data instances, or surveys of the type Exclusion, Warning, and Message.



Particip...	Site	Trigger...	Field	Field value	Opera...	Reference...	Type	Last updated by	Status	View
110003	Test Site	11 Aug 2022	Has the patient previously	1	--	1	Exclusion			
000004	Test Site	15 Aug 2022	Inclusion criteria met? (INC	Yes	--	Yes	Message		New	
000007	Test Site	15 Aug 2022	Inclusion criteria met? (INC	Yes	--	Yes	Message		New	
000007	Test Site	16 Aug 2022	Is Visit 1 date before the So	Yes	--	Yes	Warning		New	

1. A user can filter validations by type (Exclusion, Warning, Message), by site to show participants with validations which belong to a particular site, by data entry type and period when the validations were triggered using the 'Filters' button.
2. An overview of all participants is given with the details of the validation.
3. The operator represents how the field value and the reference value are compared, depending on the setup of the validation message. There are several operators: greater than, greater than or equal to, equal to, smaller than, smaller than or equal to, not. The 'Reference value' represents the value that is used in comparison to the value that was entered in a field, as defined during the validation setup.
4. It is possible to manage the field's validation using the status feature in the Monitoring tab. You are able to select the following status: New, Reviewed and Completed for the following validation message types: Message, Warning. In this way, it is possible to see the remaining active validations that still need to be evaluated and resolved. Once marked as 'resolved', the validation is not shown any longer in the Validations overviews AND in Data entry. But as soon as a user changes the status from 'resolved' to 'reviewed' or 'new', the validation is shown again in data entry.
5. To open the participant and jump to the form with the validation, click on the eye icon in the column 'View'.

12.3. Verifications

This sub-tab displays all *pending*, *performed*, and *dropped* verifications in the study or in repeating datas:

Example of Dropped Verification

The screenshot shows the 'Verifications' tab for 'Castor EDC Study' (v4.11). The 'Dropped' sub-tab is active. The table lists two dropped verifications for participant 000004 at Test Site.

Participant...	Site	Created on	Dropped on	Dropped by	Location	View
000004	Test Site	15 Aug 2022	15 Aug 2022	[User]	Visit Screening	[View]
000004	Test Site	01 Sep 2022	01 Sep 2022	[User]	Visit Screening	[View]

Example of Pending Verification

The screenshot shows the 'Verifications' tab for 'Castor EDC Study' (v4.11). The 'Pending SDV' sub-tab is active. The table lists multiple pending verifications for participant 100003 at Test Site, all related to medication data.

Field	Participant...	Site	Last update...	Location	View
Units (med_units)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Dose (med_dose)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Stop date (med_stop)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Start date (med_start)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Name (med_name)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Dose (med_dose)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]
Units (med_units)	100003	Test Site	22 Sep 2022	Repeating data Medication - 22...	[View]

Example of Performed Verification

The screenshot shows the 'Verifications' tab for 'Castor EDC Study' (v4.11). The 'Performed' sub-tab is active. The table lists seven performed verifications for participant 000004 at Test Site, including study visits and screenings.

Participant...	Site	Type	Created on	Created by	Location	View
000004	Test Site	SDV	15 Aug 2022	[User]	Visit First Study Visit	[View]
000004	Test Site	SDV	15 Aug 2022	[User]	Visit First Study Visit	[View]
000004	Test Site	SDV	15 Aug 2022	[User]	Visit Screening	[View]
000004	Test Site	SDV	15 Aug 2022	[User]	Visit Screening	[View]
000004	Test Site	SDV	15 Aug 2022	[User]	Visit Screening	[View]
000004	Test Site	SDV	15 Aug 2022	[User]	Visit Screening	[View]

For pending verifications only verifications added to required fields will be shown.

Using the 'Filters' button on the Dropped tab, a user can choose to show dropped verifications only for study or repeating datas. A user will also be able to filter by a selected user who dropped the verification, by site, and period when the verifications were dropped.

Using the 'Filters' button on the Pending SDV tab, a user can show pending verifications only for study or repeating datas, by location (e.g. Visits, form, or repeating data), and last update date range.

Using the 'Filters' button on the Performed tab, a user can filter by site, data entry type (Study Visit or Repeating data), type, created by, and created between dates.

To open the participant and directly view the form where the verification is located, click on the eye icon in the column 'View'.

To see *all active* verifications, go to the ['Participants' tab](#) and use the "progress by form" view mode. Verified forms can be identified by a green checkmark.

The 'Monitoring' tab will also appear in the participant view and will include the same sub-tabs, but these will contain only the information (queries, validations, and verifications) associated with the selected participant.

13. Exporting data

Data can be exported in SPSS, SAS, Excel, and CSV formats.

Apart from the study data, the export file will contain a list [of all the variables](#) created in the study and a list of all the option groups with the option group names and values.

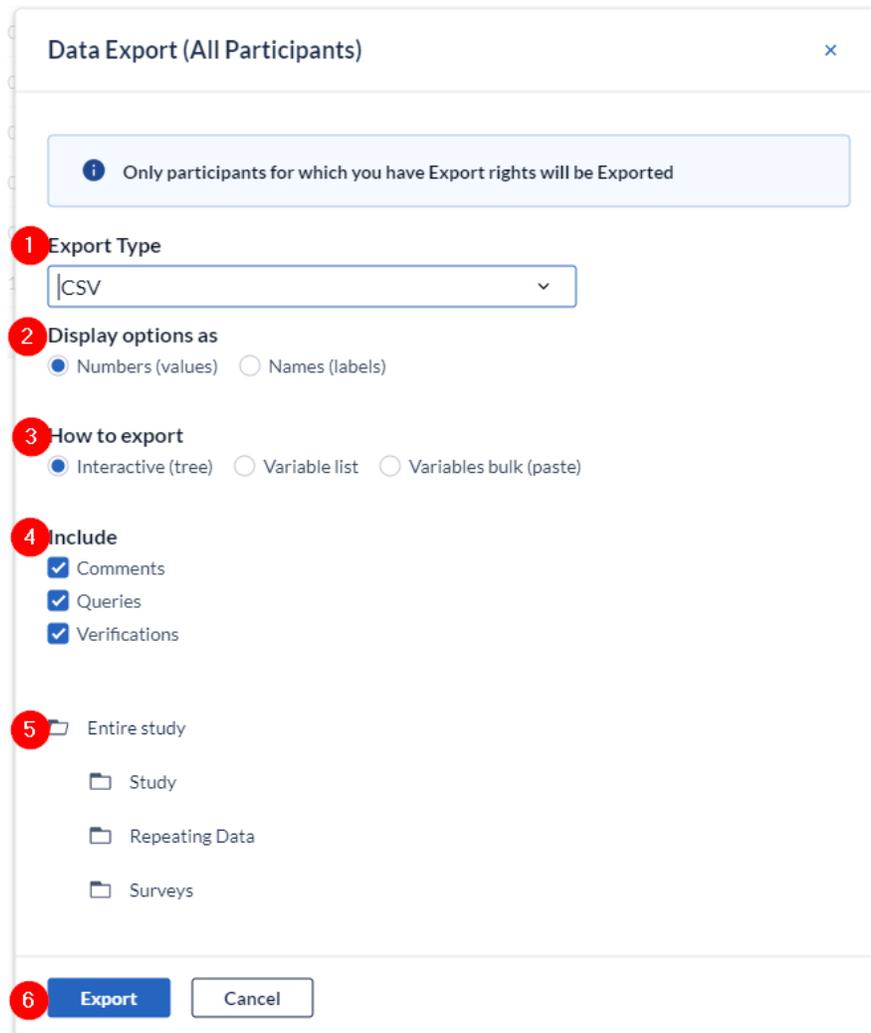
13.1. How to export data

1. Navigate to the 'Participants' tab and click the 'Actions' icon.
2. Choose 'Export all' to export all participant data. If you are exporting only data from selected or filtered participants, first select or filter the participants you wish to export and then click the 'Actions' icon, then choose 'Export all filtered' or 'Export selected' from the list:

The screenshot shows the 'Castor EDC Study' interface. On the left is a navigation sidebar with options like 'Study structure', 'Study forms', 'Participants', 'Repeating Data', 'Surveys', 'Monitoring', 'Statistics', 'Audit Trail', 'Users', and 'Settings'. The main area displays a table of participants with columns for 'Participant ID', 'Site', 'Randomiza...', 'Progress', 'Last opene...', 'Created on', 'Updated on', and 'Status'. A search bar and 'Exact match' checkbox are at the top. An 'Actions' dropdown menu is open, showing options like 'Lock', 'Unlock', 'Print selected', 'Print empty CRF', 'Export all', 'Export all filtered', 'Export selected', 'Import', 'Update status', 'Update site', 'Archive selected', and 'Un-archive selected'. The 'Export all' option is highlighted with a red circle.

Participant ID	Site	Randomiza...	Progress	Last opene...	Created on	Updated on	Status
000004	Test Site	A	<div style="width: 100%;"></div>	Infected Site	12 Aug 2022	22 Sep 2022	Not Set
000005	Test Site	B	<div style="width: 100%;"></div>	Infected Site	02 Aug 2022	03 Aug 2022	Not Set
000006	Test Site	A	<div style="width: 100%;"></div>	Infected Site	02 Aug 2022	01 Sep 2022	Adverse Event
000007	Test Site	B	<div style="width: 100%;"></div>	Infected Site	03 Aug 2022	17 Aug 2022	Not Set
100002	Test Site	A	<div style="width: 100%;"></div>	Infected Site	01 Aug 2022	03 Aug 2022	Not Set
100003	Test Site	B	<div style="width: 100%;"></div>	Infected Site	01 Aug 2022	22 Sep 2022	Not Set
110003	Test Site	-	<div style="width: 100%;"></div>	Infected Site	11 Aug 2022	11 Aug 2022	Not Set
110006	Main Site	-	<div style="width: 100%;"></div>	Infected Site	25 Aug 2022	25 Aug 2022	Not Set

3. A 'Data Export' dialog window will appear:



1. Select the file format you want to export your data in. You can choose between CSV, Excel, SPSS and SAS (SAS XPT or SAS 7BDAT) or CDISC-ODM formats. You also have the option to download all uploaded files in the 'Upload file field' in your study by selecting 'Uploaded files (to zip-file)'.
2. In case you select CSV or Excel as export type, pick the way options are displayed in the export. Numbers will export the option values, while Names will export the options labels.
3. Select between exporting the certain parts of the study, variable list or specific variables (only CSV and Excel formats).
4. Choose whether you want to export all comments. These will be exported to a separate sheet in Excel, or in a separate CSV file. The export for comments contains

the following information: current value of the field, which type of form the field is located on (study/repeating data) and the repeating data name if applicable.

Choose whether you want to export all queries. These will be exported to a separate sheet in Excel, or in a separate CSV file. Choose whether you want to export data verifications. These will be exported to a separate sheet in Excel, or in a separate CSV file.

5. In CSV and Excel formats it is possible to decide which part of the study you want to export. By default, the export will contain all the data from your study, repeating data and surveys. In the interactive tree-view you can select smaller subsets (on the form-level) by selecting the file icon next to each option (Study, Repeating data, and surveys). Using this tree-view you can export only a subset of your data, for example only study, repeating datas, surveys or forms of your study.
6. Click Export to export your data.

13.2. Exported files

The export includes multiple data sets. In an Excel export, these datasets are in different Excel sheets. In CSV and SPSS exports, the data sets are in separate files.

- Study data in one file called 'STUDYNAME_export_DATE.csv' or 'STUDYNAME_date.dat'
- Report data in separate files. Every repeating data has its own Excel sheet or file. For example, SAE repeating datas and blood pressure repeating datas will be in 2 sheets or files, which are called 'STUDYNAME_SAE_date' and 'STUDYNAME_blood_pressure_date', respectively.
- Survey data in separate files. Like repeating datas, every survey has its own file.
- Variable lists of study forms, repeating datas, and surveys - a list of all fields.
- Comments, incl. the current field value
- Queries

The export file will be saved as a zip-file, containing either:

1. An Excel file with separate sheets for the study data, each repeating data instance, each survey, a list of variables and option groups.
2. A set of separate CSV files, one for study data and one for each repeating data and survey, a list of variables and option groups.

