

Castor

Castor CDMS Monitoring User Guide

Version 2023.1

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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:

⑤ castor ■ Netherlands	•
First name Last name	Sign up and join 85,000+ happy users in 90+ countries
Phone number (Optional)	Build forms in minutes
Password	Co Secure and compliant
Repeat password	No credit card required
 I declare that I have read Terms of Use* By clicking here we will keep you up-to-date about our products, services, and webinars as well as educational materials 	• •
Create Account	
Already registered? Log in	

- 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
- 4. Accept the 'Terms of Use' and opt-in the email communications (optional)
- 5. Press the button 'Create Account'

You will receive an email to verify your account. After clicking the link in the email address, you will be prompted to confirm the server where your account will be created.

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:

	ତ castor	
Please com	plete your Castor account deta	ils
	nis form to confirm your Castor account. Wit able to access the studies you have been invit	
First name	Last name	
Email Address		
Phone number (Optio	onal)	
Password		
		Ø
Repeat password		
		Ø
I declare that I have	ve read Terms of Use*	
	re will keep you up-to-date about our produc inars as well as educational materials	ts,



- 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 your details, an email with an activation link will be sent to the email address you have provided. Click on this link to confirm that the supplied email address belongs to you and verify your account.

2. Log In

To access the study, log into Castor CDMS via https://data.castoredc.com (NL server). 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.
- 3. Provide your password.
- 4. Click on 'Login'.

3. Open a study

Once you have logged into Castor CDMS, 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), you can click on the study name to enter the study.

y Studies				
Castorexample	Q Orde	by Creation date: Newest first	~	+ New Study 7 Filters
Not Live	: Castor EDC Study			Monocenter EU Server

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



Could not open selected study × You don't have permission to enter this study. Please contact your study admin to request permission.

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

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3. Access study for Monitoring

 Study forms	~	Participants						+ New A	ctions 🗸	∀ Filters	
Participants		Participant v		Q	Exact match	n					
Repeating Data		List Visit For	m								
 Surveys		Participant \	⊳ Site ↑↓	Randomiza ↑↓	Progress ↑↓	Last opene $\uparrow\downarrow$	Created on $\uparrow\downarrow$	Updated on $\uparrow\downarrow$	Status ↑↓	⋳	?
Se Monitoring	~	110006	Amsterdam Hospi	1 -	•	John Doe	15 Mar 2023	15 Mar 2023	Not Set	₿	:
I Dashboard		110007	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	۵	:
Ge Audit Trail		110008	Amsterdam Hospi	1 -		John Doe	15 Mar 2023	15 Mar 2023	Not Set	⋳	:
2 ⁰ 11		110009	Amsterdam Hospi	1 -	·	John Doe	15 Mar 2023	15 Mar 2023	Not Set	۵	:
😤 Users		110010	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	⋳	:
Settings	~	110011	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	۵	:
		110012	Amsterdam Hospi	-			15 Mar 2023	15 Mar 2023	Not Set	۵	:
		110013	Amsterdam Hospi	1 -		John Doe	15 Mar 2023	15 Mar 2023	Not Set	⋳	:
		110014	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	۵	:
		110015	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	⋳	:
		110016	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	۵	:
		110017	Amsterdam Hospi	1 -			15 Mar 2023	15 Mar 2023	Not Set	⋳	:

The study will open on the Participants tab.

As a monitor, you will most likely see the following tabs:

- 1. **Participants**: Contains an overview of all participants in the study, where you can access the participants for data review.
- 2. **Repeating Data**: Contains an overview of all repeating data instances created within the study.
- 3. **Surveys**: In this tab, there is an overview of all the survey invitations that have been created, sent and filled.
- 4. Monitoring: Queries, validations, and verifications are shown in this tab.



4. The Participants tab

In the Participants tab, a list is displayed showing all participants for the sites to which you have 'View' rights (see Section 6).

Study forms	~	D		1	Q Exact ma	atch			+ New Ac	3	7 Filte	
D Participants			rticipant ~	•					+ New Ac	tions 🗸	r Fiite	rs
Repeating Data		4 List	Visit Form		2							
Surveys			Participant \downarrow	Site ↑↓	Randomiza ↑↓ Progress ↑↓	Last opene ↑↓	Created on $\uparrow\downarrow$	Updated on $\uparrow\downarrow$	Status ↑↓	Castor Connect	₿	0
			GB-KCH-00002		Intervention	1000	25 Jan 2019	22 Nov 2022	Enrolled		⋳	7
DE Monitoring	~		GB-KCH-00003		Intervention	- Indexes	28 Jan 2019	19 Nov 2021	Enrolled		Ô	7
J Dashboard			GB-KCH-00005	1000	Control	in the second	13 Aug 2019	15 Nov 2022	Enrolled		۵	7
Service Audit Trail			GB-KCH-00008		Intervention	1000	11 Oct 2019	21 Oct 2021	Enrolled		â	?
്രം Users			GB-KCH-00009		Intervention	10000	11 Oct 2019	17 Nov 2022	Enrolled		⋳	7
Settings	~		GB-KCH-00010		Intervention	in the second	16 Oct 2019	28 Mar 2022	Not Set		۵	7
-			GB-KCH-00011		Intervention		24 Oct 2019	30 Sep 2022	Non-adherence		⋳	7
			GB-KCH-00012		Control		08 Nov 2019	28 Mar 2022	Enrolled		⋳	P
			GB-KCH-00013		Control		12 Nov 2019	27 May 2021	Drop out		â	7
			GB-KCH-00014	-	Intervention	-	28 Nov 2019	20 Dec 2021	Drop out		⋳	,
			GB-KCH-00015	- C	Control		28 Nov 2019	08 Jun 2022	Drop out		⋳	"
			GB-KCH-00016		Control -		10 Jan 2020	09 Dec 2021	Drop out		⋳	4
			GB-KCH-00017	-	Intervention		28 May 2020	22 Jun 2022	Drop out		⋳	2
					Control		17 Aug 2020	22 Jul 2022	 Drop out 		⋳	.
			GB-KCH-00019		Intervention -		25 Aug 2020	08 Jul 2022	Non-adherence			
			GB-KCH-00019 GB-KCH-00020		Intervention		02 Sep 2020	07 Jul 2022	Non-adherence		۵	æ

- In the 'Participants' tab, a search box is available, in which it is possible to search for a particular participant ID or . More information on the search is provided in section 4.1.
- 2. The 'Progress' column will show the status of completion for each participant.
- 3. By default, all participants are shown, however you can use the 'Filter' button to filter based on various parameters.
- 4. It is possible to change the view mode to show the progress of the participants by visits or forms. This will display the status of completion of each form for each participant. Double click on any visit or form to directly access it.



4.1. Search for Participants

You can use the search bar to find participants that contain certain data, for example if you want to find the participants with a certain age at onset.

Study structure ✓	Castor EDC Study • Not Live (v.4.11)							
E Study forms V	Gender ^ Female 2	Q	Exact match		+ New	Actions	✓ Y Filters	٩
Participants	PARTICIPANTS:	^						
 Repeating Data Surveys 	Participant		Progress ↑↓	Last opene ↑↓	Created on ↑↓	Updated on ↑↓	Status ↑↓	^
	DEMOGRAPHICS:			March Apr	12 Aug 2022	15 Aug 2022	Not Set	:
⊡ Monitoring ∨	Screening Visit Date date1		-	Crock Month	02 Aug 2022	03 Aug 2022	Not Set	1
G _≝ Audit Trail	Year of birth dem_birth_year			tores Analysis	03 Aug 2022 01 Aug 2022	17 Aug 2022 03 Aug 2022	Not Set	
😤 Users	Gender dem_sex	~		identical data	01 Aug 2022	16 Aug 2022	Not Set	÷.
Settings ~		•						F

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

4.2. Accessing a single participant

To open a participant double click the line the participant is on.

Study forms								
Study forms V	Gender v	Female	Q	Exact match		+ New	Actions N	✓ Y Filters
Participants	List Visit For	m						
Repeating Data								
Surveys	Participant ID	↓ Site ↑↓	Randomiza ↑↓	Progress $\uparrow\downarrow$	Last opene $\uparrow\downarrow$	Created on $\uparrow\downarrow$	Updated on $\uparrow\downarrow$	Status ↑↓
	000004	Test Size			facilities	12 Aug 2022	15 Aug 2022	Not Set
📴 Monitoring 🗸 🗸	000005	52.95			Section 4	02 Aug 2022	03 Aug 2022	Not Set
I Statistics	000007	Lat the			protections	03 Aug 2022	17 Aug 2022	Not Set
Se Audit Trail	100002	Trail Sile			(Article Sale	01 Aug 2022	03 Aug 2022	Not Set
A Users	100003	No. 1994			marcela ivera	01 Aug 2022	16 Aug 2022	Not Set

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There are a total of 5 available tabs within the participant overview, but which tabs you see depends on the study setup and your specific user rights:

ତ	← Back to participants	Participant ID: 000004 • No	ot Live (v.4.11)		Participant status:	Not Set	~
	Participant Visits	6 castor	Screening 1. Demographics				
	Repeating Data Surveys	Participant: 000004	1.1 Screening Visit Date	2022-09-01 (YYYY-MM-DD)		ŝ	
	Monitoring Randomization	Not Set Progress: 60%	Please complete the inclusion criteria for this subject.				
	Randomization		1.2 Year of birth	1990 (yyyy)		\$ 🕫)
		In Progress	1.3 Gender	Female		ŝ	
		Screening :	This field value cannot be changed as	it was used for randomization of this record.			
		 In Progress Demographics 	1.4 Height	170 cm		ŝ	
		Completed	15 Weight	62 kg		<i>{</i> ô}	
		Diagnosis and medical history	1.6 BMI	21.45		<u>6</u> 3	
		In Progress	1.7 Country of origin	Netherlands	~	Ś	
		Study inclusion In Progress	18 Screening Complete?	● Yes ○ No		£ <u>0</u> 3	
		First Study Visit :					
		Not Started	C	3			
		Follow-up :					
		Not Started					
2		Outcome :					
0			Previous				

- 1. **Study tab** You access this tab by default when you open the participant; this is where you will see the study forms and can navigate between them.
- 2. **Repeating Data tab** Contains all repeating data instances that were created for the participant, such as Adverse Event repeating data instances(see 'The Repeating data tab' section below).
- 3. Surveys tab Contains all surveys that were created or sent to a participant.
- 4. **Monitoring tab** Contains an overview of relevant monitoring information, such as queries, verifications, and validations (see 'The Monitoring tab' section below).
- 5. **Randomization tab** Contains information on when and by whom the participant was randomized and, in unblinded studies, the randomization allocation.



4.2.1 The Study tab

The Visits tab in a participant outlines all the study visits and allows you to navigate between the different forms.

ୢ	← Back to part	icipants 6	Participant ID: 0000	04 ∘ Ne	lot Live (v.4	i.11)			Participant status:	Not Set	~
	Participant Visits		9 cast	or	Scree 1. D	^{ning} Demographics					
	Repeating Dat Surveys Monitoring		Participant: 000004 Not Set Progress:	1 60%		Screening Visit Date	for this subject	2022-09-01 (YYYY-MM-DD)		4	
	Randomization	1	• In Progress			Year of birth		1990 (yyyy)	3		7 9
			Screening	:	• 1.3	Gender This field value ca	annot be changed as it w	Female Male as used for randomization of this record.		ģ	
			 In Progress Demographics 	2	• 1.4	Height		170 cm		ŝ	
			Completed Completed Diagnosis and medical history			Weight		62 kg		¢3	
			In Progress Study inclusion			Country of origin		Netherlands	~	(Q)	
			In Progress		1.8	Screening Complete?		● Yes ○ No		(j)	
			First Study Visit	:			2				
			Follow-up	÷							
8			Outcome	÷							
0						ous Next 5					

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. You can click on the form of interest in this panel to start entering the required data. Once you answer a question in the form, you 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.



- 4. Each field is accompanied by a cogwheel menu, containing options for each participant. In this menu, you can clear the data from a field, add a comment or mark the field as 'missing' data.
- 5. It is possible to navigate to the previous/next form by clicking on 'Next' or 'Previous'. If you reach the first or the last form, these buttons will be grayed out.
- 6. To exit the participant and return to the participant list, click on the 'Back to participants' button.

4.2.2 The Repeating Data tab

Repeating Data forms are used for unscheduled events, such as Adverse Event, Medication history, Blood pressure or any other repeating data.

୭	4	Back to participants	Participant ID: 000004	1 ∘ No	ot Live (v.4.11)					Participant s	tatus: Not Set	~
		Participant	o casto	r	All repeating	data						-
		Repeating Data	-	•		epeating Data type: eating Data type to filter 💌	Filter by Repeating D Select Repeating Data		oy status: hived	¥	Add a repeating data	
		Surveys Monitoring	Participant: 000004 Not Set		Filter by n	ime:	Filter by visit: Select visit to filter	¥			Add a repeating data	instance
		Randomization	Progress: 605	%	Status	Repeating Data 🔺	Name	Туре	Created on	Created by	Assigned to	
				3	•	Blood Pressure	Blood pressure - 1	Repeated measure	2022-08-18 16:3	Marcela Reis	No parent	ŵ
					0	Blood Pressure	Serious Adverse E	Repeated measure	2022-08-18 17:0	Marcela Reis	Follow-up	ŝ
					0	Blood Pressure	Serious Adverse E	Repeated measure	2022-08-18 17:0	Marcela Reis	Follow-up	ŝ
					0	Blood Pressure	Serious Adverse E	Repeated measure	2022-08-18 17:0	Marcela Reis	Follow-up	¢
					0	Blood Pressure	Serious Adverse E	Repeated measure	2022-08-18 17:0	Marcela Reis	Follow-up	¢
					0	Blood Pressure	Serious Adverse E	Repeated measure	2022-08-18 17:0	Marcela Reis	Follow-up	<pre>cpr</pre>
					0	Serious Adverse E	Serious Adverse E	Adverse Event	2022-08-18 15:5	Marcela Reis	No parent	ŝ
					•	Serious Adverse E	Serious Adverse E	Adverse Event	2022-08-18 16:3	Marcela Reis	No parent	ŝ
					I I I Page	1 of 1	Chang 25 M				Bonosting	Data 1 - 8 of 8
					IN NI Page		5110W 25 V				Repeating	vara 1-0 Ur0
2					Repeating Da	ta						+
0												

 The 'Repeating Data' tab in a participant will show you all existing repeating data instances for that participant. The global 'Repeating Data' tab in the study overview will list all repeating data instances for all participants.

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- 2. To search for a repeating data instance, you can use the many filter options in the top, such as repeating data type (e.g. unscheduled visit) and parent visit (the visit to which a repeating data is attached to).
- 3. Double-click the repeating data instance of interest to open it. The dot/icon beside the repeating data instance is used to indicate progress: green indicates the repeating data instance is complete, orange indicates that the repeating data instance is still in progress, and white indicates a repeating data instance has been created but not started. You may also see the 'Add a repeating data instance' button, which is used for adding new repeating data instances to the participant. Additionally, repeating data instances are added directly via a form.

The same data entry and monitoring rules apply for repeating data instances, as for the study forms: Repeating data will have a status indicator which shows their completion and can be queried, signed, and verified.



If a repeating data instance was attached to a visit, it will also be shown in the study overview if the option to 'Show Repeating Data' is enabled by a study admin in the 'Settings' tab:

9	← Back to participants	Participant ID: 110001 • M	lot Live (v.0.01)	Participant status: Not Set ~
	 Participant Visits Repeating Data 	Participant: 110001 Not Set Progress: 4%	Follow-up 8. Physical exam	
	Surveys		 8.1 Date of visit 2023-03-17 (YYYY-MM-DD) 	tộ:
	Monitoring	Not Started	8.2 Heart rate Beats per minute	\$ P
	Randomization	Screening :		
		 Not Started 	8.3 Blood pressure measurements - measure in all positions	
		First Study Visit :	Add	measurement
		O Completed	Created on Measurement p Systolic pressure Diastolic pressu Date and time o	
		Follow-up :	ertated on measurement p systeme pressure pressure pressure. Date and time o	
		Completed		
		Physical exam		
		 In Progress Repeating Data Adverse event - 24-03- 2023 13:38:20 		
		Not Started		
		Outcome :		
8				
?			Previous Next	

4.3 Important indicators in data entry

4.3.1 Data validations

Data validations (edit checks) are programmed by the study admin at the beginning of the study. If the entered data in the study or repeating data meets a certain condition, a message will appear indicating this next to the affected field:

3.1.1 Date of informed consent	2022-05-14 (YYYY-MM-DD)	Ś
⚠ Date of signature cannot be in the future		



Data validation types include errors, messages, warnings, and exclusions. With the exception of errors, existing data validations will be visible in the 'Monitoring' tab under validations.

4.3.2 Signed, locked, and verified forms

While navigating through the study or repeating data forms, if a form was signed or locked, there will be banners indicating it at the top:

This form was signed on 23/11/2022 at 12:09 b	NY	Unsign
☐ This form was locked on 23/11/2022 at 12:09 b	νγ	Unlock
eriatric Depression Scale (GDS-15)		
4.1 Are you basically satisfied with your life?	◎ Yes ○ No	ţĝs
4.2 Have you dropped many of your activities and interests?	◎ No ○ Yes	Ś
4.3 Do you feel that your life is empty?	◎ No ○ Yes	ŚĞł
4.4 Are you in good spirits most of the time?	◎ Yes ○ No	Ś

The signature, lock and SDV icons will also be displayed next to the form name in the form navigator to the left. (See also: SDV section below).

4.3.3 Field comments and queries

You might also notice a text bubble in certain fields, this indicates an added comment:

11.8 Was a Covid test performed?	● Yes ○ No ○ Unknown	



Comments are mandatory when making changes to a signed or verified form or, if the GCP module is turned on in Study settings, changing a field's value. All fields with such changes will have an associated comment. These cannot be modified or deleted.

When a query is present in a field, the query sign will be shown next to the field (see Monitoring Queries section below).



5. Monitoring queries

5.1 Adding queries

1. To create a query for a field, while in the relevant form, click on the cogwheel icon to the right of the question. From the presented options, choose 'Add query':

4	Back to participants	Participant ID: 000004	Not Live (v.4.11)		Participant status:	Not Set 🗸
	Participant Visits	6 castor	Screening 1. Demographics			
	Repeating Data Surveys	Participant: 000004	1.1 Screening Visit Date	2022-09-01 (YYYY-MM-DD)		ŵ
	Monitoring	Not Set	Please complete the inclusion criteria for this sub	ect	6	Clear User missing
	Randomization	Progress: 60%	1.2 Year of birth	1990 (vyyy)		Comments
		In Progress Screening	1.3 Gender	 Female Male 		Add query SDV field
			This field value cannot be cha	nged as it was used for randomization of this record.		
		 In Progress Demographics 	1.4 Height	170 cm		ŝ
		Completed V	 15 Weight 	62 kg		ŝ
		history	1.6 BMI	21.45		£ <u>3</u> 3
		In Progress Study inclusion	• 1.7 Country of origin	Netherlands	~	ŝ
		O In Progress	18 Screening Complete?	● Yes ○ No		<03
		First Study Visit				

2. A pop-up window will appear where you can enter your remark. Click on the 'Add query' button to save the query.



Add query for field Screening Visit Date	×
Current query status New	
Remark Please add the missing data.	
Add query Cancel	

- You can also add multiple queries to the same field allowing them to be simultaneously managed by monitors on single data points (fields). Every time a new query is added, it gets an incremental number (eg. Query 1, Query 2, Query n+1) so that users can differentiate while responding to them and/or updating their status.
- 4. Once you have added a query, you will see that for fields with data, status has been updated to incomplete, as indicated by the orange bullet. The query icon (question mark) will appear next to the field.

8.1 Date of visit	(j)	(YYYY-MM-DD)	ثِنَي رَبَّ ا



5.2 Query resolution

When an existing query is verified or resolved by a data entry user, they can add their remark by changing the status of the query to one of the following options:

- 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. Only when the query is closed will this field be marked as complete again (green bullet).

5.3. Query overview

Existing queries are indicated with their respective icon in the 'Participants' list, in the 'Queries' column:

Study forms ~									
	Participant 🗸		Q	Exact match		+ New	Actions 🗸	ΥF	ilters
Participants	List Visit Form								
Repeating Data	_								_
Surveys	Participant ID ↓	Randomiza ↑↓	Progress ↑↓	Last opene $\uparrow \downarrow$	Created on $\uparrow\downarrow$	Updated on $\uparrow\downarrow$	Status ↑↓	⋳	3
	000004	А		Reality	12 Aug 2022	01 Sep 2022	Not Set	⋳	7
🔤 Monitoring 🗸 🗸	000005	В	-	01003040	02 Aug 2022	03 Aug 2022	Not Set	⋳	
I Statistics	000006	А	•	the shello	02 Aug 2022	03 Aug 2022	Adverse Event	⋳	
udit Trail ⊆	000007	В		land heiders	03 Aug 2022	17 Aug 2022	Not Set	₽	
😤 Users	100002	А		the set of the	01 Aug 2022	03 Aug 2022	Not Set	₿	
Settings	100003			Restation	01 Aug 2022	16 Aug 2022	Not Set	₽	
	110003			Rand Kon	11 Aug 2022	11 Aug 2022	Not Set	₽	
	110006			the second states	25 Aug 2022	25 Aug 2022	Not Set	₽	



The queries are also indicated in the 'Visit' and 'Form' view mode in the 'Participants' tab:

୭	🖧 Study structure 🗸	 Not Live (v.106.01)
	Study forms ~	Participant Q Exact match + New Actions
	Participants	List Visit Form
	Repeating DataSurveys	Participant ↓ Site ↑↓ Inclusion and rando Follow-up 1 (after 3 Follow-up 2 (after 6 End of Study
	□≅ Monitoring ∨	US-YNH-00154
	d Dashboard	US-YNH-00155
	General Audit Trail	US-YNH-00156
	్లి Users	US-YNH-00157 0
	Settings ~	

All queries for a participant and their status are listed and can be reviewed from the participant's 'Monitoring' tab, 'Queries' subtab:

👶 Study structure 🗸	Castor EDC Study • Not Live (v.4.11)				
📄 Study forms 🗸 🗸	Queries		Actions 🗸 🛛 🖓 Filters 😟	∀ Filter by	×
Participants	Participant ↑↓ it Remark ↑↓	Last Remark ↑↓	Status ↑↓ Query age ↑↓		
Repeating Data				Site	Select all
Surveys	000004	t	New 17 • • • • • • • • • • • • • • • • • •	Select	~
Monitoring				Location	
Queries				Please select	~
Validations					
Verifications				Query status	
al Statistics				Open	
🤤 Audit Trail				Unconfirmed Confirmed	
				Resolved	
స్తి Users				Closed	

All queries for *all* participants are available in the general Monitoring tab (see Monitoring tab section below).

5.4 Query notifications

Upon query creation, a notification can be sent to a selected user in the study. All query creation notifications will be sent to that user. This notification needs to be set up by the study admin in the Settings tab.



6. Data Validations

Validations are pre-programmed edit checks that show messages to the data entry users. While navigating through the study forms, you can check if such validations have been activated. These appear as banners attached to a field for which they were programmed.

There are three types of validations that can be active:

1. A 'message' type, conveying information to the user:

• 3.4 Inclusion criteria met?	i Yes	ર્જેક
(i) Patient can be randomized. Go to the	e randomization tab and click randomize	

2. A 'warning' type, warning the user:

3.1 Informed consent signed?	Yes● No	્ટ્રે
Please check that the IC form is signed		



3. An 'exclusion' type, when the entered data does not meet inclusion/exclusion criteria:

Inclusion criteria are not met!		Step: Study inclusion
3.1 Informed consent signed?	◯ Yes ◉ No	ŵ
Please check that the IC form is signed		
3.2 Has the patient previously participated in a clinical trial?	◯ Yes ◉ No	ŝ
3.3 Is the patient older than 18?	Ses ○ No	\$ ⁵ }
3.4 Inclusion criteria met?	(i) No	<u>{</u>

When the exclusion validation is active, further data entry or navigation between forms is not possible.

All active validations for a participant are shown in the participant's Monitoring tab, Validations subtab:

Study forms V	Validatio	ns						Y Fi
Participants	Particip ↑↓	Site $\uparrow\downarrow$	Trigger \downarrow	Field ↑↓	Field value ↑↓	Opera ↑↓	Reference ↑↓	Type ↑↓
Repeating Data	110003	Test Site	11 Aug 2022	Has the patient previously p	1		1	S Exclusion
Surveys	000004	Test Site	15 Aug 2022	Inclusion criteria met? (INC	Yes		Yes	(i) Message
Monitoring Queries	000007	Test Site	15 Aug 2022	Inclusion criteria met? (INC	Yes		Yes	(i) Message
Validations	000007	Test Site	16 Aug 2022	Is Visit 1 date before the Sci	Yes		Yes	(i) Warning
Verifications	4	restone	107/08/2022	is that I date before the set				U Harring

All active validations for *all* participants are available in the global Monitoring tab in the Validations subtab (see Monitoring tab section below).



7. Source Data Verification

Study monitors performing source data verification (SDV) are able to mark fields, forms and visits as verified.

7.1. Verify a study form

You can mark a form or visit as verified. To do so:

- 1. Open the participant where you want to perform SDV or any other data verification that is relevant for your study.
- 2. In the left panel, click on the visit or form that you want to verify. Click on the three dots next to it and select 'SDV this form' and choose which verification you would like to apply.

9 Back to participants	Participant ID: 000004	° Not Live (v.4.11)			Participant status:	Not Set 🗸 🗸
Participant Visits Repeating Data	6 casto	Screening 1. Demograp	hics			
Surveys Monitoring	Participant: 000004 Not Set	 1.1 Screening V Please complete the in 	Visit Date	2022-09-01 (YYYY-MM-DD)		¢
Randomization	Progress: 60% Show Repeating Data	1.2 Year of birt	h	1990 (yyyy)		ې
	• In Progress Screening :	 1.3 Gender The second sec	his field value cannot be changed as it t	Female Male was used for randomization of this record.		¢
	In Progress Demographics	 1.4 Height Mark form as missing 		170 cm		¢
	Completed VE	Mark form as missing Lock this form Sign this form		62 kg		©
	history		SDV all required fields	21.45 Netherlands	~	¢
	Study inclusion		SDV all fields SDV form only (no fields)	● Yes ○ No		¢
	• In Progress First Study Visit :					

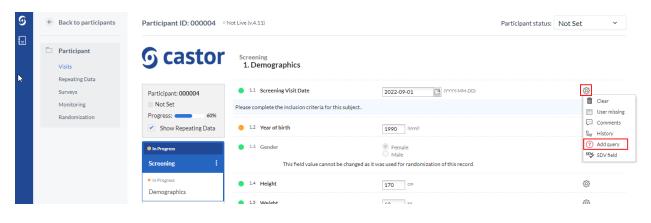
3. Click 'Continue' to save the verification or 'Cancel' to return to the data entry view.



7.2. Mark a field as verified

It is also possible to apply SDV to a field. To do so:

- 1. Click on the cogwheel next to a field where SDV should be applied
- 2. Choose the option 'SDV field'





7.3 SDV indicators

In a participant, each verified form will be marked with a green banner indicating the date and time of verification as well as the name of the user who performed verification. In the banner, there is the option to 'remove' the verification - this can be done only by the user who performed the verification.

ତ	← Back to participants	Participant ID: 000004 。	Not Live (v.4.11)		Participant status:	Not Set 🗸
	 Participant Visits Repeating Data 	9 castor		at 14:27 by user for Source Data Verification		Remove
	Surveys	Participant: 000004	This form was verified on 01/09/2022 a	tor Source Data Verification		Kentove
	Monitoring	Not Set Progress: 60%	1.1 Screening Visit Date	2022-09-01		{Ô} ***
	Randomization	Progress: 60%	Please complete the inclusion criteria for this su	bject		
		In Progress	• 1.2 Year of birth	1990 (yyyy)		\$\$ ** (1
		Screening :	1.3 Gender	Female Male		₹ <u>0</u> 3 50%
	N	In Progress SD	This field value cannot be ch	 Male anged as it was used for randomization of this record. 		
		Completed	1.4 Height	170 cm		₹ĝ3 s vy
		Diagnosis and medical history	 1.5 Weight 	62 kg		₹ <u>0</u> 3; s¤y
		In Progress	1.6 BMI	21.45		ŝ
		Study inclusion	• 1.7 Country of origin	Netherlands	~	<u>ېنې</u> ۲
		• In Progress First Study Visit	1.8 Screening Complete?	● Yes ○ No		<u>ينې</u> د

Reports that are marked as verified have the SDV icon when attached to a visit.

The following logic applies to banners and SDV icons:

- The Form SDV banner is shown when the user chooses any of the options to SDV a form and when all required fields in a form have been individually SDV'd.
- The Form SDV icon is shown on the visit/form navigation bar when the user chooses any of the options to SDV a form or when all required fields in a form have been individually SDV'd.
- When the Form SDV banner is shown, the corresponding form is shown as SDV'd on the Form View of Participant tab



When adding SDV:

- A form is considered SDV'd when all the required fields have been individually marked as SDV'd or if the form has been SDV'd directly by the user;
- A Visit is considered SDV'd when all its forms have been marked as SDV'd;
- A Repeating Data instance is considered SDV'd when all its forms have been marked as SDV'd.

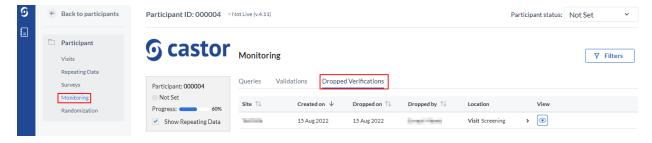
When dropping SDV:

- The Form SDV is removed when the SDV of any of the required fields within that form is removed;
- The Visit SDV is removed when the SDV of any of its child Forms is removed;
- The Repeating Data instance SDV is removed when the SDV of any of its child Forms is removed.

7.4 Modifying data after SDV

After a form is verified, if a user attempts to change data, they will receive a warning and any data modification will cause the form verification to be dropped.

It is also possible for the study admin to set up email notifications whenever form verifications are dropped, to ensure that the appropriate contacts are notified of changes made to verified data. All dropped verifications for a participant are listed in the participant's Monitoring tab, Verifications subtab:





All dropped verifications and pending verifications on required completed fields, for all participants, are available in the general Monitoring tab. (see Monitoring tab section below).



8. The global Monitoring tab

Within the general study overview, you can also access the 'global' Monitoring tab, that gives an overview of all the queries, data validations and dropped or pending verifications for all participants in a study. The Monitoring tab within a participant will include the same sub-tabs, but these will contain only the information relevant for the selected participant.

8.1. Queries subtab

In the Queries subtab you will find an overview of all queries in a study and details associated with them:

ତ	000	Study structure 🗸 🗸	Casto	or EDC Study	Not Live (v.4.11)								
		Study forms 🗸 🗸	Que	eries							A	ctions 🗸 🛛 🏹	7 Filters 🔞
		Participants		Participant ↑↓	Site ↑↓	Created By	Last updated by	First Remark ↑↓	Last Remark 11	Status 14	Query age ↑↓	Time to res ↑↓	
		Repeating Data Surveys		000004	Sec. 20	and the second second	(mach-bed)	t	t	New	17	17	۲
		Surveys		000006	Test Siles	Maria Key	Manual Key	Please fill in missing data 🔸	Missing data entered. >	Resolved	0	0	۲
	08	Monitoring		100003	The local	See Street	Section 2.	Please enter missing data.	Missing data entered. >	O Closed	0	0	۲
		Queries											
		Verifications											
	al	Statistics											

- Participant ID: ID of a participant where a query has been created.
- Site: Site to which the participant is linked.
- Created by: User who created a query.
- Last updated by: Last user who updated a query.
- First Remark: Initial comment which was added when creating a query.
- Last Remark: Last comment that was added on the query.
- **Status**: Status of a query. Clicking on the query status will open the query window where you can update the query.
- Query age: How long ago was a query created.
- Time to resolve: Time required to resolve a query.
- View: Click on the eye icon to view the query in a form where it was created.



Using the 'Filters' button, you can filter by site, location, query status, created by, updated by, created between, days in current status and days since opened.

8.2. Exporting Queries

Users with 'Export' rights can export the queries overview in bulk, either by exporting all available queries or only the ones that the user has selected or filtered. To export the queries from the Monitoring tab, Queries sub-tab, follow the forms below:

1. Click on the Actions button and choose to Export either all queries, export all filtered or all selected.

9	୭	👶 Study structure 🗸	Castor EDC Study	° Not Live (v.4.11)									
(🖹 Study forms 🗸 🗸	Queries								Actions 🗸 🛛 🏹	Filters	٢
		Participants			0						Export all		
		Repeating Data	Participant ↑	↓ Site ↑↓	Created By	Last updated by	First Remark ↑↓	Last Remark ↑↓	Status ↑↓	Query age			
		Surveys	000004	Test Site	Ernest Mbyeti	Ernest Mbyeti	t	t	New	17	Export all filtered	۲	
		- Surveys	000006	Test Site	Mandi Key	Mandi Key	Please fill in missing data 🔸	Missing data entered. >	Resolved	0	Export selected		
		DE Monitoring	100003	Test Site	Mandi Key	Mandi Key	Please enter missing data.	Missing data entered. >	Closed	0	0	\bigcirc	
		Queries											
		Validations											
		Verifications											

- 2. In Queries export dialog window, specify:
 - **Export type**: Choose to export into CSV or Excel (1).
 - **Export tree**: Choose if you would like to export queries for the entire study, specific study visits or forms in your study or for repeating data instances, a specific repeating data or a repeating data form (2).
 - **Export**: Click on Export button to generate export of the queries (3).



Queries export (All Queries)	×
Export type 1	
CSV ×	
Entire study 2	
🗂 Study	
Repeating Data	
Only queries for which you have Export rights will be Export	rted
3 Export Cancel	

8.3. Validations subtab

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

🚠 Study structur	e ~	Castor EDC St	udy • Not Live (v.4	1.11)								
Study forms	~	Validatio	ns									∀ Filters
Participants		Particip ↑↓	Site 14	Trigger \downarrow	Field ↑↓	Field value ↑↓	Opera ↑↓	Reference 1	Type ↑↓	Last updated by	Status	View
	d	110003	Sec. Size	11 Aug 2022	Has the patient previously p	: 1		1	S Exclusion			۲
		000004	Test Alice	15 Aug 2022	Inclusion criteria met? (INC	Yes		Yes	(i) Message		New	~
Queries		000007	Test Dise	15 Aug 2022	Inclusion criteria met? (INC	Yes		Yes	(i) Message		• New	· ()
Validations Verifications		000007	30.5%	16 Aug 2022	Is Visit 1 date before the Sc	Yes	==	Yes	(i) Warning		New	× ()
Generation Statistics												
	Study forms Study forms Participants Repeating Dat Surveys Monitoring Queries Verifications Verifications distatistics	 Participants Repeating Data Surveys Monitoring Queries Validations Verifications a Statistics 	Study forms Participants Repeating Data Surveys Monitoring Queries Validations Verifications Statistics Validations Verifications	Study forms Participants Repeating Data Surveys Monitoring Queries Verifications Statistics	 Study forms Participants Repeating Data Surveys Monitoring Queries Verifications Statistics 	Study forms Participants Participants Repeating Data Surveys Monitoring Quries Quries Validations Occord 15 Aug 2022 Inclusion criteria met? (INC 000007 15 Aug 2022 Inclusion criteria met? (INC 000007 16 Aug 2022 Is Visit 1 date before the Sc	Study forms Participants Repeating Data Surveys Monitoring Queries Queries Validations O00007 15 Aug 2022 Inclusion criteria met? (INC Yes 000007 16 Aug 2022 Inclusion criteria met? (INC Yes 000007 16 Aug 2022 Is Visit 1 date before the So Yes	Study forms Participants Participants Barticipants Surveys Validations Quries Validations Quries Validations Statistics	Study forms Study forms Participants Repeating Data Surveys Monitoring Queries Validations Validations O00007 15 Aug 2022 Inclusion criteria met? (INC Yes Yes 000007 16 Aug 2022 Inclusion criteria met? (INC Yes Yes 000007 16 Aug 2022 Inclusion criteria met? (INC Yes Yes 000007 16 Aug 2022 Inclusion criteria met? (INC Yes Yes 000007 16 Aug 2022 Inclusion criteria met? (INC Yes Yes 00007 16 Aug 2022 Inclusion criteria met? (INC Yes Yes	Study forms Study forms Participants Repeating Data Surveys Monitoring Queries Validations O00007 15 Aug 2022 Inclusion criteria met? (INC Yes Yes ① Message 000007 16 Aug 2022 Is Visit 1 date before the Sol Yes Yes ③ Warning	Study forms Study forms Participants Barticipants Surveys Monitoring Quries Validations Occord 15 Aug 2002 Inclusion criteria met? (INC Yes	 Study forms Study forms Participants Bepeating Data Surveys Monitoring Queries Validations O00007 15 Aug 2002 Inclusion criteria met? (INC Yes 16 Aug 2002 Is Visit 1 date before the So Yes 11 Aug 2002 Is Visit 1 date before the So Yes 12 Yes 13 Message 14 Message 15 Aug 2002 15 Aug

- 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. You can find the the 'Resolved' validations by using the 'Filters'

୭	品 Stud	ly structure	~	Castor Stud	dy • Live (v.0.01)							
	📄 Stud	ly forms	~	Validati	ions						√ Filter by (1)	×
	🗖 Parti	icipants		rigger ↓	Field ↑↓	Field value $\uparrow\downarrow$	Opera ↑↓	Reference $\uparrow \downarrow$	Type ↑↓	Last updated b		
	Repe	eating Data		3 Mar 2023	Date of informed consent (i	31-03-2023	>	NOW	(i) Warning	John Doe	Site Select	Select all
	🖹 Surv	reys		3 Mar 2023	Date of visit (vis1_date)	25-03-2023	>	NOW	i) Warning	John Doe	Validation type	
	Mon Queri Valida Verifi	ies									Exclusion Warning Message Validation status	7
	الله Dash هو Audi										New Reviewed Resolved	
	ුදු User බූ Setti		~								Data Entry type Study Repeating data Survey	
											Triggered between	1
											Start	Ë
@										_	End	Ħ
0				0		1 - 2 of 2			Items per pag	e: 25 ~	Apply	Reset

5. To open the participant and jump to the form with the validation, click on the eye icon in the column 'View'.



8.4. Verifications subtab

This subtab displays all pending, preformed, and dropped verifications in the study:

Example of Dropped Verification

୭	🖞 Study structure 🗸	Castor EDC Study • Not Live (v.4.11)					
	E Study forms 🗸	Verifications						∇ Filters
	Participants	Pending SDV Performed Dro	opped					
4	Repeating Data	Fending 3DV Fendinied Did						
	Surveys	Participant $\uparrow\downarrow$ Site $\uparrow\downarrow$	Created on $\ \downarrow$	Dropped on $\uparrow\downarrow$	Dropped by $\uparrow\downarrow$	Location		View
		000004	15 Aug 2022	15 Aug 2022	Intel Plant	Visit Screening	>	
	Monitoring							
	Queries							
	Validations							
	Verifications							

- Using the Pending, Performed, and Dropped verification tabs under verification will filter each relevant verification.
- Each row shows the participant ID, the site name, creation date, drop date, dropped by and the location of the dropped verification. You can expand the location field by clicking on the carrot within the field to review the Visit, Form, and Field where the verification was dropped, performed, or is pending.
- To open the participant and jump to the form where the verification is located, click on the eye icon in the column 'View'.

9	Study structure 🗸	Castor EDC Study • Not Live (v.4.11)					
	Study forms 🗸	Verifications					∇ Filters
	 Participants Repeating Data 	Pending SDV Performed Drop	ped				
(Surveys	Field ↑↓	Participant $\uparrow \downarrow$	Site ↑↓	Last updat 个	Location	View
		Additional remarks ()	100002	TextUse	18 Aug 2022	Repeating data Serious Advers >	۲
	Monitoring	Did the patient recover? ()	100002	No. Color	18 Aug 2022	Repeating data Serious Advers >	۲
	Queries Validations	If other, please describe ()	100002	Sec. 10	18 Aug 2022	Repeating data Serious Advers >	۲
	Verifications	Under which category does the event I	100002	Testille	18 Aug 2022	Repeating data Serious Advers >	۲
	I Statistics	Give a description of the event: ()	100002	Text Day	18 Aug 2022	Repeating data Serious Advers >	۲
q	🖁 🖉 Audit Trail	What are the consequences for the co	100002	TextUse	18 Aug 2022	Repeating data Serious Advers >	۲

Example of Pending Verification



- Using the 'Filters' button on the Pending, Preformed, or Dropped tab, you can choose to filter by site, date range, and/or location for the study or for repeating data only.
- Each row shows the participant ID, the site name, last update date, and field location. You can expand the location field by clicking on the carrot within the field to review the Visit, Form, and Field where the SDV resides.
- To open the participant and jump to the form where the verification was added, dropped, or performed click on the eye icon in the column 'View'.

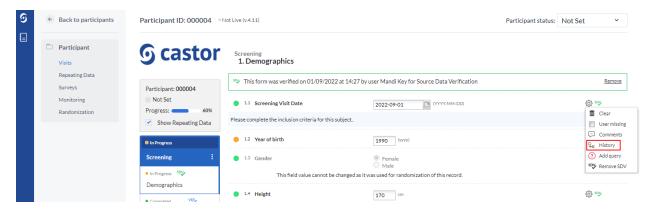
Please note that the Pending SDV tab only includes fields that are required and have been completed (contain data). To see all active verifications, go to the Participants tab and use the "Visit" or "Form" view mode. Verified forms will contain a green checkmark. (See Participant tab section below).



9. Using the Audit Trail

The study audit trail allows for a review of all access and changes made to study settings and data. It is possible to apply a filter to the displayed information based upon the event type, the user and the affected variable (where applicable). Access to the full audit trail is normally available only to study admins with all management rights.

As a monitor, in data entry you can view the audit trail for all participant results. To view the audit trail of a single field, click on the cogwheel next to the field:



A popup will appear detailing the changes to the field. The date, the user who changed the field, and the new value are all displayed:

listory for fie	eld Gender		×
Date 2021-05-18 08	Username 8:43:40 Shevone	Value changed to Female (1)	
Refresh			Close



10. The Dashboard tab

The <u>Study Dashboard</u> allows to track the progress of your study, including:

- Participant recruitment
- Data collection progress
- Randomization
- Queries

Please note that the data aggregated in the dashboard is based on your personal viewing rights.

		1)							Feedbar
Study forms ~	Dashboard					Last updated on 4 Nov 2022, 3:34 PM	C Reload	Analytics	
 Participants Repeating Data 	Study progress Randomization Queries								Sites
Surveys					45		1	9	All sites United Kingdom
🗉 Monitoring 🗸 🗸	4 Sites		913 >		15 > Added last		Au	verage added	• United States
Dashboard	Sites		Participant records		30 days		pe	er month	
a Audit Trail	Participant record creation over time						Unit		Participant status
St. Users	randepart record creation over time						yea		All statuses Drop out
Settings ~	900 w 450								Eligible Enrolled
	60 400 60 350								Non-adherence
	2 250 2 200								Not Set Not-eligible
	A 150 100 2 50								Screened
	and a state of the			¢.				•	
	-97.42 42			All area				dir li ar	
				Date				No. 11 Str. 11 Str.	
	Participant visit completion ()			Date				Starling.	
	Participant visit completion ③ Site Inclusion and randomization	Follow-up 1 (after 3 months)	Follow-up 2 (after 6 months)	Date After Follow-up 3 (after 9 months)	End of Study			and a start and	
	Participant visit completion ()	Follow-up 1 (after 3 months) 2%	Follow-up 2 (after 6 months) 1%	Date	End of Study 7% 0%			"Strikete	
	Participant visit completion ① Site Inclusion and randomization 6%	2%	1%	Date After Follow-up 3 (after 9 months) 0%	7%			"Etritor	
	Participant visit completion ① Site Inclusion and randomization 6% 7%	2% 0%	1%	Date After Follow-up 3 (after 9 months) 0% 0%	7% 0%				
	Participant visit completion Site Inclusion and randomization 6% 7% 5%	2% 0% 1%	1% 0% 0%	Date After Follow-up 3 (after 9 months) 0% 0% 0%	7% 0% 2%			Si irae	
	Participant visit completion ① Site Inclusion and randomization 4% 7% 5% 2%	2% 0% 1% 0%	1% 0% 0%	Date After Follow-up 3 (after 9 months) 0% 0% 0%	7% 0% 2%				
	Participant visit completion ① Site Inclusion and candomization 4% 7% 5% 2% Participant status	2% 0% 1% 0%	136 076 076 076	Date After Follow-up 3 (after 9 months) 0% 0% 0%	7% 0% 2%				
	Participant Visit and randomization Site Enclusion and randomization GN Site Site Site Site Enclusion Site Site Site Site Site Site Site Site	2% / / / / / / / / / / / / / / / / / / /	1% 0% 0% 0% 0%	Date After Follow-up 3 (after 9 months) 0% 0% 0%	7% 0% 2%				
	Participant Visit arrowned Name Image: State Image: State	2% 0% 1% 1% 0% Enrolled Non-softherence Dr 0 0 0 0	15 05 05 05 05 05 05 0 10 10 10 10 10 10 10 10 10	Date After Follow-up 3 (after 9 months) 0% 0% 0%	7% 0% 2%				

It is possible to filter the dashboards by site and participant status using the 'Filters' button. The filter is saved on a study and user level and will, therefore, still be in place when returning to the dashboard at a later time.



11. Further Information

For more information regarding study monitoring, please check Castor CDMS's knowledge base: <u>https://helpdesk.castoredc.com</u> or visit Castor Academy <u>https://academy.castoredc.com/</u>