

8 Using OpenClinica as a Data Manager

Before reviewing this section, make sure that you have read <u>Getting Started</u>.

For Information on Using OpenClinica as a Data Manager, See the Following Sections:

Approved for publication by Kate Lambert. Signed on 2025-07-15 1:00PM

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8.1 Queries (Data Manager)

Definitions:

• Queries are inquiries or alerts about potential incorrect data.

• **Annotations** are notes on a Form that do not contain clinical data and are usually used for keeping track of workflow.

• **Reasons for Change** are notes added by a user when modifying data on a form that has already been marked as Complete.

The system creates queries automatically if you close a Form that has unaddressed errors or you can manually create a query.

Another user can respond to it and/or change the response in the field. Only **Data Managers** and **Monitors** can close queries.

The Queries Table

A table displays queries, annotations, and reasons for change. Details about each query, annotation, or reason for change are listed in the **Detailed Notes** column.

Queries

Total

ed on table filters)	
•	3
9	9
•	2
	ed on table filters)

14

н н н	M 50 N	🖌 Show More 📥	0									_		
Query ID	Participant ID	Site ID	Туре	Resolution Status	Days Open	Days Since Updated	Event Name	CRF	Item Name	Item Value	Detailed Notes	Assigned User	Action	s
													Apply Clear l	Filter Filter
4	002	1234567	Query	, New	19	19	Headache	Other Symptoms	how_many_times_a_week	11	Automatic query for: Value not allowed	Kerry Tamm (ktamm)	0	Q
5	002	1234567	Query	, New	19	19	Headache	Other Symptoms	how_many_times_a_month	12	Automatic query for: Value not allowed	Kerry Tamm (ktamm)	0	Q
3	004	1234567	Query	, New	82	82	Eligibility & Consent	Eligibility	participant_is_18_years_of_age_or_older	yes	Check this	Kerry Tamm (ktamminvadmin)	0	Q

You can click **Show More** at the top of the table to show more columns.

To filter by reason for change, click the gray filter box under the **Type** column, and select **Reason for Change**. You can change the view of the **Queries** screen to filter any column that includes a gray filter box.

Querie	S													
Summary	/ count by st	atus (based on tal	ble filters)											
New			•											
Updated														
Closed			•											
Not Appli	cable		2	9										
Closed M	odified		•											
Total				9										
н	M M 50	🛩 Show More 📥	Ð											
Query ID	Participant ID	Site ID	Туре	Resolution Status	Days Open	Days Since Updated	Event Name	CRF	Item Name	Item Value	Detailed Notes	Assigned User	Actions	
													Apply F	ilter
N/A	002	1234567	Annotation Query Reason for Char	nge v plicable			Eligibility & Consent	Eligibility	participant_suffers_from	no	Test	0	Clear F	۹
N/A	002	1234567	Reason for Change	S Not Applicable			Eligibility & Consent	Consent	i_consent_to_participate_in_this_study	option_1	Test	0	0	۹
N/A	002	1234567	Reason for Change	♀ Not Applicable			Eligibility &	Consent	i_consent_to_participate_in_this_study	option_1	Test	0	0 (Q

The Table Below Displays Statuses for Queries and Annotations:

[table id=17 /]

To Review Data Associated with a Query, You Have Two Options:

[table id=18 /] You can access these options from the $\bf Actions$ column of the $\bf Queries$ table. ${\tt Queries}$

Summary	count by sta	atus (based on tal	ole filters)											
New			,	3										
Updated														
Closed			•											
Not Applic	able		P											
Closed Mo	dified		•	2										
Total				5										
нн	H 50 N	🖌 Show More 🛓	e											
Query ID	Participant ID	Site ID	Туре	Resolution Status	Days Open	Days Since Updated	Event Name	CRF	Item Name	Item Value	Detailed Notes	Assigned User	Actior	ns
			Query										Apply Clear	y Filter Filter
4	002	1234567	Query	> New	19	19	Headache	Other Symptoms	how_many_times_a_week	11	Automatic query for: Value not allowed	Kerry Tamm (ktamm)	8	Q
5	002	1234567	Query	9 New	19	19	Headache	Other Symptoms	how_many_times_a_month	12	Automatic query for: Value not allowed	Kerry Tamm (ktamm)	۵	Q
3	004	1234567	Query	, New	82	82	Eligibility & Consent	Eligibility	participant_is_18_years_of_age_or_older	yes	Check this	Kerry Tamm (ktamminvadmin)	۵	Q

View Query Only:

	View Query								
Participant ID: 002 Event Name: Headache	2								
Form Title: Other symp	toms								
How many times a week does t	the participant take an analgesic? 🔎								
11									
View All History		×							
Queries + New									
Automatic query #4 for: Value not	Assign to: Kerry Tamm (V Email?	1							
Annotations + New	Close This Query Update								
	R 10-Nov-2020 Automatic query for: Value not allowed #4 assigned to ktamm. Status: new	linica							
	KT Value changed from "" to "11"	- 84							
	KT Value changed from "1000000" to "" 10-Nov-2020								
	KT Value changed from "" to "1000000"	-							

View Query Within Record:

Is the participant taking any pr	Is the participant taking any preventative measures? $ arphi $						
 Caffeine Propranalol Botox Injections Magnesium Herbal Remedies Chronic use of analgesics 							
How many times a week does t	he participant take an analgesic? 🗩						
View All History Queries + New Automatic query	Respond to query						
Annotations + New	Assign to: Kerry Tamm (Email? Close This Query Update						
	R Image: Automatic query for: Value not allowed #4 assigned to ktamm. Status: new KT Value changed from "" to "11" 10-Nov-2020 Value changed from "" to "11"						
	KT Value changed from "1000000" to "" 10-Nov-2020 KT Value changed from "" to "1000000"						

You can then update the query comment, use the **x** to close the query details, and review the entire form in question. **Data Managers** and **Monitors** have the additional option of closing the query. If an item only displays based on the response to another question, there may be instances where an item was conditionally displayed, a query was added to that item, and then the response to the leadin question was changed, so that item is no longer displayed. That query still exists, however, and needs to be addressed. Similarly, if there is a form that has repeating records and a query was added to a row, but that row has since been deleted, the query still exists, but is no longer displayed on the form. OpenClinica informs you of these hidden items and provides an option for resolving the associated queries. For example, when the item in question is a response that has since been hidden, or is on a repeating record that has since been deleted, the following message displays:



To review the remaining data on

that form, click **OK** and review the data. To review the data for the item in question, return to the **Queries** screen and use the **View Query Only** icon for that query (as instructed in the message).

Creating Queries

Use Case(s):

- Participant data does not match the source record.
- Participant data is clinically inaccurate.
- Participant data contains a typographical error.
- A form needs to be marked complete but an edit check prevents it.
- Information is missing from a form.
- A form in an Event was not started on time.

Users can create queries to inquire about participant data.

Note: Each query is automatically assigned an ID that is unique to the study environment (i.e. **Test** or **Production**). The ID appears in the **Queries** widget but is not visible until you close and reopen the Form. It also appears on the **Queries** table.

You can add multiple queries regardless of any existing ones.

You can only add/respond to queries and annotations in **Edit Mode** or **Review-Only Mode**, as determined by your User Role. You cannot do so in **Read-Only Mode**.

You can view the history for all queries and annotations on a single item by selecting **View All History**, or you can view the history of each query or annotation individually by selecting that query or annotation from the left panel. If you check the **Show value changes** checkbox, each value change is included in the history.

Best Practice:

- If a form has not been started when it should have been, a Data Manager can add a query to the events start date.
- When a query is created, it should be assigned to the correct recipient. If action is required excluding if the query needs to be closed, the **Email** checkbox should be checked off.
- A new query should be created for a single issue, instead of combining multiple issues.
- A new query should be created rather than reopening a query that has already been closed.

To Create a Query:

- 1. Open a Form.
- 2. Click the **Query Bubble** in the field you want to create a query for.
- 3. Click the **+New** button next to **Queries**.
- 4. In the Add a new query field, enter text explaining the possible error or question.
- 5. (Optional) Select a user from the drop-down list next to **Assign to**. If you want to email that user to notify them about the query, check the box next to **Email**. When a query notification email is sent, it includes the Query ID for easy access.
- 6. Click the Add Query button.

Diagnosis	Q	Body System	Q	Date of Diagnosis	Q	Ongoing?	Ω	1
Emphysema		Respiratory	•	2019-11-12	Q	Yes		
							×	
View All History		Add a new query						
Queries + New		Please check date						
Annotations + New		Assign to: Rob Rittberg	(rr ~	✔ Email?		Add Qu	iery	
		S Value changed from = 13-Nov-2019	to "2019-11-	12"				
1						Show value ch	nanges	J
← Back			Cl	ose				
			✔ Co	mplete				

Responding To/Updating Queries

Use Case(s):

- A response is required for the query to be resolved.
- Participant data must be changed for the query to be resolved.

Users can update queries by responding to a query and/or changing data in the form. If data is changed, they will be prompted to enter a reason for change.

Note: You can only add/respond to queries and annotations in *Edit Mode* or *Review-Only Mode*, as determined by your User Role. You cannot do so in *Read-Only Mode*.

You can view the history for all queries and annotations on a single item by selecting **View All History**, or you can view the history of each query or annotation individually by selecting that query or annotation from the left panel. If you check the **Show value changes** checkbox, each value change is included in the history.

Best Practice:

- All users can view a list of queries that have been assigned to them by expanding the **Quick Links** header in the left-hand sidebar and clicking **Queries Assigned to Me**.
- Data Managers can view a list of queries that have been assigned to them by clicking **Queries** Assigned to Me on the Home screen.
- When a query is responded to/updated, it should be assigned to the correct recipient. If action is required, the **Email** checkbox should be checked off.
- Data Managers and Monitors should review the entire queries list regularly to check for unassigned queries.
- If a conditional field (a field that appears based on the response to another field) has a query on it but a user has changed the response to the main field so that the conditional field no longer appears, the query still exists and needs to be addressed, but the field no longer appears on the Form. To review the remaining data on that Form, click **OK**, and review the

data.

• If there is a form that has repeating records, and a query was added to a row, but that row has since been deleted, the query still exists, but no longer appears on the Form. A message appears to inform you of these hidden items and provides an option for resolving the associated queries. To review the remaining data on that Form, click **OK**, and review the data.

To Respond to or Update In a Form:

- 1. Open a Form.
- 2. Click the **Query Bubble** in the field you want to create a query for.
- 3. Select the query you want to respond to and/or update.
- 4. (Optional) If you need to change information in a form, close the **Query** widget, and make changes to the Form manually. You must provide a **Reason for Change** before completing the Form.
- 5. In the **Respond to query** field, enter text explaining the query response.
- 6. (Optional) Select a user from the drop-down list next to **Assign to**. If you want to email that user to notify them about the query, check the box next to **Email**. When a query notification email is sent, it includes the Query ID for easy access.
- 7. Click the **Update** button to add the response and leave the query open.

To Respond to or Update a Query from the Queries Table:

- 1. Click **View Query Only** or **View Query within record** in the **Actions** column of the **Queries** table.
- 2. (Optional) If you need to change information in a form, close the **Query** widget, and make changes to the form manually. You must provide a **Reason for Change** before completing the form.
- 3. In the **Respond to** query field, enter text explaining the query response.
- 4. (Optional) Select a user from the drop-down list next to **Assign to**. If you want to email that user to notify them about the query, check the box next to **Email**. When a query notification email is sent, it includes the Query ID for easy access.
- 5. Click the Update button to add the response and leave the query open.

View All History Queries + New	Respond to query Date Confirmed	
Annotations + New	Assign to: KT 1 minute S Value changed from to "2019-11-12"	Close This Query Update
		Show value changes

Closing Queries

Use Case(s):

- The information on the form has been changed to address the query.
- A response clarifies why the existing information is accurate.

Data Managers and Monitors can close queries when the issue has been resolved. Data Managers and Monitors are also the only user roles with the ability to reopen a closed query.

Best Practice:

- A new query should be created rather than reopening a query that has already been closed.
- If a conditional field (a field that appears based on the response to another field) has a query on it but a user has changed the response to the main field so that the conditional field no longer appears, the query still exists and needs to be addressed, but the field no longer appears on the Form. To review the remaining data on that Form, click **OK**, and review the data.
- If there is a form that has repeating records, and a query was added to a row, but that row has since been deleted, the query still exists, but no longer appears on the Form. A message appears to inform you of these hidden items and provides an option for resolving the associated queries. To review the remaining data on that Form, click **OK**, and review the data.

To Close a Query In a Form:

- 1. Open a Form.
- 2. Click the **Query Bubble** in the field you want to create a query for.
- 3. Select the query you want to close.
- 4. Click the **Close** button.

To Close a Query from the Queries Table:

- 1. Click **View Query Only** or **View Query within record** in the **Actions** column of the **Queries** table.
- 2. Click the **Close** button.

View All History Queries + New	Respond to query Date Confirmed	×
Please check date #46 Annotations + New	Assign to: KT 1 minute S 13-Nov-2019 Lemail? Email? Email? Email?	Close This Query Update
		Show value changes

Queries can also be closed in bulk using the **Data Review Table**.

Annotations

Use Case(s):

A user adds an annotation to keep track of workflow

You can add an annotation to a field to make a note. Annotations cannot be assigned, responded to or closed.

Best Practice: Annotations should not contain clinical information.

Note: You can view the history for all queries and annotations on a single item by selecting **View All History**, or you can view the history of each query or annotation individually by selecting that query or annotation from the left panel. If you check the Show value changes checkbox, each value change is included in the history.

To Enter an Annotation:

- 1. Open a Form.
- 2. Click the **Query Bubble** in the field for which you want to create an annotation.
- 3. Click the **+New button** next to **Annotations**.
- 4. In the **Add a new annotation** field, enter text for the annotation.
- 5. Click the **Add Annotation** button.

View All History	KT Value changed from "113.6" to "" 20-Apr-2020 Value changed from "113.6" to ""
Queries + New	B Value changed from "" to "113.6" 25-Sep-2019
Annotations + New Corrected the age. So this calculated field changed	B Value changed from "113.6" to "" 25-Sep-2019
	B Corrected the age. So this calculated field changed
	B Value changed from "114.4" to "113.6" 24-Sep-2019
	B Value changed from "" to "114.4" 24-Sep-2019
	Show value changes
	Note

Annotations are indicated with an **i** icon. They appear as **N/A** in the **Query ID** column and **Not Applicable** in the **Resolution Status** column.

Downloading Queries, Annotations, and Reasons for Change

To Download Queries, Annotations, and Reasons for Change:

- 1. Click the **Download** button at the top of the table. A Download window appears.
- 2. Select comma-separated values or portable document format in the format field.
- 3. Click the **Download notes** button.

Queries

Summary count by status (based on table filters)

New			۰	3
Updated				
Closed			9	
Not Appli	cable		2	9
Closed Mo	odified		9	2
Total				14
ни	st 🖬 50	Show More	≛ ⊖	
Query ID	Participant ID	Site ID	Туре	Resolution Status

format:	comma sepa	rated values ~
Down	load notes	Close Window

Printing Queries, Annotations, and Reasons for Change

To Print Queries, Annotations, and Reasons for Change:

- 1. Click the Print button at the top of the table. A Print window appears.
- 2. Click **ctrl** + **p** (Windows) or **command** + **p** (Mac) or click **Ok**, right click the window, and select **Print**.

Queries

Summary count by status (based on table filters)

New			۰	3
Updated			۶	
Closed			9	
Not Appli	cable		9	9
Closed Mo	dified		9	2
Total				14
н н	s s s s s s s s s s	Show Mor	re 🔺 🖶	
Query ID	Participant ID	Site ID	Туре	Resolution Status

Quer	ies		cu	st1.staging	.openclin	ica.io says	5						
Query ID	Participant ID	Site ID	T <u>.</u> Pre	Press <control +="" p=""> or right click on the page to print.</control>					CRF	CRF Status	ltem Name		
4	002	1234567	Qı		2020	2020					Other Symptoms	initial data entry	how_many_time
5	002	1234567	Query	New	10-Nov- 2020	10-Nov- 2020	19	19	Headache		Other Symptoms	initial data entry	how_many_time
3	004	1234567	Query	New	09-Sep- 2020	09-Sep- 2020	82	82	Eligibility & Consent	20- Aug- 2020	Eligibility	data entry complete	participant_is_1
1	002	1234567	Query	Closed Modified	20-Aug- 2020	04-Sep- 2020			Eligibility & Consent	20- Aug- 2020	Eligibility	data entry complete	participant_is_1

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Approved for publication by Paul Bowen. Signed on 2022-04-13 12:18AM

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8.2 Source Data Verification

Definition: Source Data Verification (SDV) is the process of reviewing and verifying data against source records to ensure accuracy.

The Source Data Verification screen is the Monitor's **Home** screen where they perform Source Data Verification (SDV).

To Access the Source Data Verification screen:

Click Tasks in the header bar of Study Runner, and select Source Data Verification.

The SDV Table

The Source Data Verification table displays the SDV Status, Open Queries, SDV Requirements, CRF Status, etc.

So	Source Data Verification for New Test Site									
IM IM Image: Show More										
Sele	ct: All Shown	None								
SDV	/ Status	Participant ID	Site ID	Open Queries	Event Name	Event Date	CRF Name	SDV Requirement	CRF Status	Actions
										Apply Filter Clear Filter
		a123	1	0	Exam (1)	01-Nov- 2021	Eligibility	Item Level		Q Data Verify
		a123	1	0	Exam (1)	01-Nov- 2021	Consent	Item Level		Q Data Verify
	*	a1234	1	0	Exam (1)	01-Nov- 2021	Eligibility	Item Level	☑ 土	Q Data
	\$	a1234	1	0	Exam (1)	01-Nov- 2021	Consent	Item Level	Z 1	Q Data
		a1234	1	0	Treatment (1)	02-Nov- 2021	Pre- Treatment Evaluation	Item Level		Q Data Verify
Resu	Results 1 - 5 of 5.									
∼	/erify All Ch	ecked								

SDV Requirements

SDV requirements are defined by your study protocol. Data Managers and Administrators can specify the level of SDV requirement for each item on a form in Study Designer. Below is a table that displays basic definitions of each SDV Requirement.

Icon	SDV Requirement	Description
(No Icon)	Not Applicable (Default)	SDV is not applicable for this form.
	Not Required	SDV is not required for the form, but you can still perform SDV if you want. This is often used when 10% of Forms need to be SDVed. Each form record is verified or unverified all together, rather than item-by-item
	Partial Required	Some fields on the form must be verified. Each form record is verified or unverified all together, rather than item-by-item
40	100% Required	Every field in the form must be verified. Each form record is verified or unverified all together, rather than item-by-item
	Item-Level	Item-Level SDV allows you to choose which items will be part of SDV by selecting Required, Optional, or Not Applicable for each individual item on a form. Item records will then be marked as Verified or Not Verified independently and will become unverified independently if their data changes on the form.
Ż	Item-Level (To be configured)	This indicates Item-Level SDV was selected, but is not configured validly since all items are set to Not Applicable. Use the Configure SDV link on the Form card in Study Designer to set each item to Required, Optional, or Not Applicable. At least one item needs to be Required or Optional, otherwise change the form's SDV Requirement to Not Applicable.

Not all forms will have all SDV Requirement options available. The SDV options are related to when the form was created and when it was published to Production in relation to the Stack 15 release (December 20th, 2021). The SDV options on forms are as follows:

- Form first published to Production prior to Stack 15 release: Not Applicable, Not Required, Partial Required, 100% Required
- Form created prior to Stack 15 release, but not yet published to Production: Not Applicable, Not Required, Partial Required, 100% Required, Item-Level
- Form first published to Production after Stack 15 release with one of the following statuses -Not Required, Partial Required, 100% Required: Not Applicable, Not Required, Partial Required, 100% Required
- Form first published to Production after Stack 15 release with one of the following statuses Not Applicable, Item-Level: Not Applicable, Item-Level
- Form created after Stack 15 release: Not Applicable, Item-Level
 - Individual items have the following SDV Requirement options: *Required*, *Optional*, or *Not Applicable*
 - When first selecting Item-Level on a form, the item is set to Optional by default. Additional items that are added will default to Not Applicable.

Item-Level SDV Requirements:

- Not Applicable: items cannot be verified
- Optional: items can be verified
- **Required:** items must be verified for the form to be fully verified and get Verified status

The Source Data Verification table only displays completed forms with an SDV requirement other than **Not Applicable**.

You can click **Show More** to show more rows or filter a column by clicking the gray box below the column header.

Forms can have a status of **Ready to verify**, **Changed since verified**, or **Verified**.

Items can have a status of **Not Verified**, and **Verified**.

SDV Form Statuses are as follows:

Icon	Status	
		Ready to verify
A		Changed since verified
		Verified

You can sort the columns, such as **Event Date** by clicking the column header.

The **Open Queries** column displays the number of queries that are open (**New** or **Updated**) for a specific CRF. This is a good way to keep track of which CRFs are likely to change due to outstanding queries.

If the number of queries is **0**, the number appears as plain text. If the number of queries is greater than **0**, it appears as a link. If you click the link, it takes you to the **Queries** screen, which is filtered to the Participant, Form, and Event that the row in the **SDV** table corresponds to.

The **CRF Status** column displays the status of the form as well as whether it is **Locked**, **Signed**, etc.

Click the **View CRF** (magnifying glass) button in the **Actions** column to open the form in Review-Only mode (unless the form is in a status of **Locked**, in which case, the form opens in Read-Only mode).

Click **Data** to view form information and review the items individually. Use the radio buttons in the upper-right corner to view only the specific data you want to review on the form:

Form Level:

- Show all items: displays all items on the form
- Show only changed since last Verified: displays items that have had a value changed since the form was verified

Item-Level:

- Show all items: Shows all items on the form regardless of SDV requirement or status
- Show all SDV items: Shows all SDV Required or SDV Optional items regardless of status
- Show items needing verification: Shows all SDV Required items with unverified status

Verifying Data

Use Case(s):

- The information on the form has been changed to address a query.
- A response clarifies why the existing information is accurate.
- The SDV Plan requires Source Data Verification regardless of whether or not there is a query.

To Perform Source Data Verification:

- 1. Click the **View** icon in the **Actions** column to view the completed form.
- 2. Compare the data entered in the form against the source record. If there are any discrepancies between the source record and the data on the form, click the **Query Bubble** for the item in question and create a query for the site to address.
- 3. Complete the review of the data and close the form.
 - $1. \ {\rm Click} \ {\rm Verify} \ {\rm to} \ {\rm verify} \ {\rm all} \ {\rm items} \ {\rm on} \ {\rm that} \ {\rm form, \ or}$
 - 2. Check off each form on the **SDV Forms Table** and then click **Verify All Checked** to verify multiple forms at once.

Select: All Shown	Select: All Shown None										
SDV Status	Participant ID	Site ID	Open Queries	Event Name	Event Date	CRF Name	SDV Requirement CRF S	Status	Action	s	
Ready to verify +									Apply	Filter Cl	ear Filter
	a123	1	0	Eligibility & Consent	01-Nov-2021	Physical Exam	Item Level	🔽 🕹 🖴	۹	Data	Verify
	a123	1	0	Eligibility & Consent	01-Nov-2021	Vital Signs	Item Level	2 🕹 🖴	۹	Data	Verify
A	a1234	1	0	Exam (1)	01-Nov-2021	Vital Signs	Item Level		Q	Data	Verify
	a12345	1	0	Exam (2)	30-Nov-2021	Vital Signs	Item Level		۹	Data	Verify
	a1234	1	0	Adverse Event (1)		AE1	Item Level	2 1	Q	Data	Verify
Results 1 - 5 of 5.	cked										

Alternatively, you can click the **Data** button and review the data. Then select items to verify and click **Verify All Checked**.

Partie	cipant ID: a12345			Event Name:	Exam				
Site I	D: 1			Event Start Date:	30-Nov-202	1			
Form	Form Name: Vital Signs SDV Form Requirement: Item Level								
Form Status: data entry complete SDV Form Status: Ready to verify									
				○ Show all ite	ms O Show	all SDV items 💿 Sh	ow items needing	verification	
=	Brief Description (Item Name)	🕴 Value 🖗	SDV Requirement 🕴	Last Verified (UTC) 🔅	Open Queries 🕴	Last Modified (UTC) $\ensuremath{\Diamond}$	Modified By 🕴	Actions 🕴	
	Visit number (VISIT) (1)	Baseline	Required	Never	0	30-Nov-2021 21:20	Riley Bianchi	0	
	Temperature in Celcius (TEMP) (1)	36	Required	Never	0	30-Nov-2021 21:20	Riley Bianchi	0	
	Heart Rate (BPM) (HR) (1)	98	Required	Never	0	30-Nov-2021 21:20	Riley Bianchi	0	
	Mean Arterial Pressure (mmHg) (MAP) (1)	76	Required	Never	0	06-Dec-2021 14:14	Riley Bianchi	0	
	Systolic arterial blood pressure (mmHg) (SABP) (1)	110	Required	Never	0	06-Dec-2021 14:14	Riley Bianchi	0	
	Diastolic arterial blood pressure (mmHg) (DABP) (1)	60	Required	Never	0	06-Dec-2021 14:14	Riley Bianchi	0	
	Central Venous Pressure (mmHg) (CVP) (1)		Required	Never	0	06-Dec-2021 14:15	Riley Bianchi	0	
			Verify All Chec	ked Close					

When the final **SDV Required** item on a form becomes **Verified**, the form will become **Verified**. If there are no **SDV Required** items configured on a form, verifying the final **SDV Optional** item on a form will verify the form. Clicking **Verify** for a form will mark all **SDV Required** items on that form as verified. Clicking **Verify** for a form will <u>not</u> mark **SDV Optional** items as verified. *Note:* If you inadvertently marked a record as Verified, you can reset its status by clicking the double-check icon in the **SDV Status** column. You are prompted to confirm resetting the status. If a form is marked as not verified after it was verified, this does not reset the status for all items on the form. Use the **Data** button to update the SDV status for individual forms as needed.

Changes Made After Verification

Form-Level:

If a value on a verified form was changed, the status of the form will become **Changed since verified**, and the form must be verified again.

Item-Level:

If the value of a verified item (Required or Optional) was changed:

- If the form was verified, the form becomes **Changed since verified** and the item becomes **Not Verified**
- If the form was not verified, the status of the form does not change, and the item becomes Not Verified

If the value of an unverified SDV Optional item changed after the form was verified, the form status will remain **Verified**. If an additional repeating group occurrence containing a Required item was

added to the form:

- If the form was verified, the form becomes **Changed since verified** and the Required item remains **Not Verified**.
- If the form was not verified, the status of the form does not change and the Required item remains Not Verified.

Functional approval by Kate Lambert. Signed on 2024-10-23 10:31AM

Approved for publication by Paul Bowen. Signed on 2025-02-10 1:43PM

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8.3 Reviewing and Managing Data

Data can be reviewed using the **Participant Matrix**, **Queries**, or **Source Data Verification** screen.

Review and Manage Data from the Participant Matrix

The Participant Matrix

Typically, **Data Managers** and **Monitors** are responsible for reviewing data, but anyone with access to the Participant Matrix can view/review data as needed. Data Managers can also remove a participant and/or reassign a participant to a different site. The actions column presents the appropriate actions available, based on your user role. The following displays the actions available to

Participant Matrix for Severe Headache Study

160 N N	₩ 50 V Show Mor	re Select An	Event ~ Add	New Participant
Participant ID	Eligibility & Consent	Exam	Check In	Actions
				Apply Filter Clear Filter
001	X	0	0	Q 🗙 🖻
002		0		Q x E
003		0	0	Q × E
004			0 x3	Q × E
005	0	0	0	Q × E
006			0	Q 🗙 🖻

a Data Manager:

Remove a Participant

Data Managers have access to remove Participants. Removing a Participant does not delete the Participant, but instead removes access to that Participant's data. The data for that subject can still

Image: Model Mode	Participant Matrix for Severe Headache Study									
Participant ID Screening Baseline Cycle 1 - 4 (Repeating) Study Termination Actions Image: Construction of the second sec	K K M M 50 V Show More Select An Event V Add New Participant									
Apply Filter Clear Filter		Actions	Study Termination	Cycle 1 - 4 (Repeating)	Baseline	Screening	Participant ID			
	ter	Apply Filter Clear Filter								
		Q X 🗄	0	0			001			
		Q X 🗄	0	0	0	0	002			
		Q × E	0	0	0	0	003			
Results 1 - 3 of 3. Remove		Remove				3.	Results 1 - 3 of			

Remove Participant from Study

Participant ID:	0003
Study Name:	Study 1
Site Name:	
Created By:	
Date Created:	27-Jul-2021
Last Updated by:	takoo_dm
Date Updated:	22-Feb-2022

Participant Events

Last Update	Event	Start Date	End Date	Location	Updated By	Status
22-Feb-2022	Event 2 (1)	27-Jul-2021	27-Jul- 2022		takoo_dm	data entry started
	Event 5 (1)	14-Feb- 2022				scheduled

Reason for Change: *

reason entered here

Remove Participant

Cancel

Participant is removed from the study, the **Remove** icon changes to a **Restore** icon. To restore access to that Participant's data, simply click the **restore** icon and the data is available again for editing and extracts.

Participant Matrix for Severe Headache Study									
K K K Show More Select An Event · Add New Participant									
Participant ID	Screening	Baseline	Cycle 1 - 4 (Repeatir	ng) Study Terminatio	on Actions				
					Apply Filter Clear Filter				
001			0	0	Q X 🗄				
002	0	0	0	0	Q × E				
003	0	0	0	0	Q 0				
Results 1 - 3 o	f 3.				Restore				

Restore Participant to Study					
Participant ID:	0003				
Study Name:	Study 1				
Site Name:					
Created By:	takoo_dm				
Date Created:	27-Jul-2021				
Last Updated by:	takoo_dm				
Date Updated:					

Participant Events

Last Update	Event	Start Date	End Date	Location	Updated By	Status			
22-Feb-2022	Event 2 (1)	27-Jul-2021	27-Jul- 2022		takoo_dm	data entry started			
	Event 5 (1)	14-Feb- 2022				scheduled			
Reason for (Reason for Change: *								
reason entered here									
Restore Participant to Study Cancel									

When removing or restoring a participant, you will be required to enter a reason for change.

Reassign a Participant

Data Managers also have access to reassign a Participant to another site. This may be needed if a Participant moves to a different location but still wants to continue on the study. Prior to reassigning, be sure that the original site has an extract of that Participant's data. Then, to reassign a Participant, click the **Reassign** icon. Specify the new site and click **Reassign Participant**.

Participant Matrix for Severe Headache Study									
Participant ID	Screening	Baseline	Cycle 1 - 4 (Repeatir	ng) Study Terminat	ion Actions				
					Apply Filter Clear Filter				
001			0	0	Q × E				
002	0	Q	0	0	Q 🗙 🕀				
003	0	Ø	0	0	Q × E				
Results 1 - 3 of	f 3.				Reassign				

Reassign Participant

Participant ID	002
Study Name:	Severe Headache Study
Created By:	ktamminvadmin
Date Created:	20-Aug-2020
Last Updated by:	ktamm
Date Updated:	10-Nov-2020

Please choose a site from the following list:



The

new site has immediate access to that Participant's forms and all data previously collected for the Participant. The original site no longer has access to that Participant's ongoing data.

View, Edit, Lock, Remove and Restore Events

Click an **Event** icon on the Participant Matrix to display a pop-up. Then, click the action you want to take. When removing or restoring an event, you will be required to enter a reason for the change. *Note:* When reviewing a form which had data entered prior to the event being removed, you will see the message "**The event this form is in has been removed**" at the top of the form.

Review Participant Data

To review data, click the **View** icon for the participant whose data you'd like to review. To review data on a specific form, click the **View** icon for that form.

Visits							
<i>↓≡</i> Sort by Date							
Treatment (1)	2	*Pre-Treatment Evaluation		*Treatment Administration		*Post Treatment Evaluation	Ľ
		18-Nov-21 by rbianchi+PI (1)	5		:		:
Exam (1)	~	Exam	ă	View	2		
01-Nov-2021	* * *	10 Nov 01 by rhianabi - DI	601	Edit	:		
	_	To-Nov-21 by rbianchi+P1	×	Remove	•		
Baseline	~	Exam	۰ ش	Clear	2		
01-Nov-2021	:	18-Nov-21 by rbianchi+PI	:	18-Nov-21 by rbianchi+PI	(1)		

Filter Participant Details

As you review data, you can enter search criteria for the Common Events - for example, to show only AEs that are ongoing. You can also change the number of rows listed for any of the Common Events, and you can sort Common Events by clicking any of the column headings. When you customize anything related to what is displayed for Common Events, the **Custom View On** button displays at the top of the **Participant Details** screen. **Custom View On** also displays when collapsing or expanding sections (changing from their default), sorting and searching in the Visits section, and changing the default **Showing record filter** in the upper right corner (Active Records, All Records, Removed Records).

Participant 00	1 Cu	stom View On ×							001	Audit Log Showing Act	ive Records 🔹
Expand All Collapse All											
General Information											
Visits	Visits										
J ≓ Sort by Date									Search form of	or visit name Q	Add New
Treatment (1)	2	*Pre-Treatment Evaluation	2	*Treatment Administration		*Post Treatment Evaluation	۵	Pathology	Ľ	Labs	
		11-Nov-21 by rbianchi (1)	:	22-Nov-21 by rbianchi (1)	:		:		:	11-Nov-21 by rbianchi (1)	÷
Evam (1)	2	-	-		-						
	:	Exam	~	Vitals	2						
01-1400-2021		11-Nov-21 by rbianchi (1.2	:	11-Nov-21 by rbianchi (1)	:						

The **Custom View** is active for that participant throughout the time you are logged into OpenClinica. If you view a different Participant's details, the view might not be customized, or it may be a different customization. In the example above, throughout the current session, any time you view participant 001, that same custom view is in effect, even if you leave the page and come back to the same participant. To clear a custom view, click the **X** on the **Custom View On** button and all view customizations are removed for that participant, bringing you back to the default view. The Custom View could be as simple as collapsing the General Information section or searching for a specific form name, but it will persist on that participant until you either clear the custom view by clicking the **X**, manually change the custom view back to the default, or begin a new session. Filtering records using the Showing option in the upper right corner of the Participant Details screen filters Visits as well as Common Events. The three options for filtering records are **Active**

Records, **Removed Records** (includes Archived as well), and **All Records**. When visits or forms are filtered from display, text will display to let you know how many records are hidden.

Po	articipant c	123	5					a123 Au	udit Log Show	ing Acti	ve Records
C	Seneral Infor	mation	h						Ex	pand Al	I Collapse All
E	dit	mation	'								
P	Participant ID	a123		Status	Availab	le					
S	Study Name	Severe I Study	Headache	Site Name	New Te	st Site					
V	/isits										•
	J <i>≣</i> Sort by Da	ate	3 visits	s filtered from di	isplay]		Search form or	visit name	Q	Add New
	Exam (3)		S	ledical History	D	Consent		Eligibility	ß		
	23-Nov-2021		:		:		:		:		
	Exam (1)		M	edical History		Consent					
	01-Nov-2021 1 form filtered fr display	rom	21	-Dec-21 by rbianchi (v.0	01)	02-Dec-21 by rbia	anchi+mo				
	Eligibility & Consent		E	ligibility		Consent					
	▲ A 01-Nov-2021		:	18-Nov-21 by	:	⊥ ∩ 18-Nov-21 by rbia	anchi+PI (1)				
Po	articipant c	123	Custo	om View On 🛛 ×				a123 At	udit Log Show	ing Ren	
Po	articipant c General Infor	123 mation	Custo	om View On 🛛 ×				a123 A	udit Log Show Ex	ing Ren pand Al	noved Records -
P	articipant c General Infor _{dit}	123 mation	Custo	om View On X				a123 A	udit Log Show Ex	ing Ren pand Al	noved Records
Pc E	articipant c General Infor dit Participant ID	123 mation a123	Custo	om View On ×	Availab	le		a123 A	udit Log Show Ex	pand A	noved Records
Pc C F S	Ceneral Infor General Infor dit Participant ID Study Name	a123 mation a123 Severe Study	Custo	om View On X	Availab New Te	le st Site		a123 A	udit Log Show Ex	pand Al	noved Records
Pro E F S	General Infor Idit Participant ID Study Name /isits	a123 mation a123 Severe Study	Custo	om View On X Status Site Name	Availab New Te	le st Site		a123 A	udit Log Show Ex	pand Al	noved Records
Pc E F S	Ceneral Infor dit Participant ID Study Name /isits ↓₹ Sort by Da	a123 a123 Severe Study	Custo N Headache	om View On X Status Site Name	Availab New Te	le st Site		a123 A	udit Log Show Ex visit name	pand A	Add New
Pc E F	Ceneral Infor dit Participant ID Study Name /isits ↓₹ Sort by Da Exam (4)	a123 a123 Severe I Study	Custo N Headache 2 visits	om View On × Status Site Name	Availab New Te	le st Site		a123 A	udit Log Show Ex visit name	pand A	Add New
	Ceneral Infor Ceneral Infor Calit Participant ID Study Name /isits ↓₹ Sort by Da Exam (4) 01-Dec-2021 3 forms filtered display	a123 mation a123 Severe l Study ate	Custo Headache 2 visits E No	om View On × Status Site Name Site Name Site forms	Availab New Te	le st Site		a123 A	udit Log Show Ex visit name	Q	Add New
	Carticipant of Ceneral Infor dit Participant ID Study Name /isits ↓₹ Sort by Da Exam (4) 01-Dec-2021 3 forms filtered display Exam (2) 00 blue 5000	a123 mation a123 Severe I Study	Custo Headache 2 visits E No	Status Site Name Site Name s filtered from di visible forms	Availab New Te isplay	le st Site		a123 A	visit name	Q	Add New
PC	Ceneral Infor Ceneral Infor Calit Participant ID Study Name /isits ↓₹ Sort by Da Exam (4) 01-Dec-2021 3 forms filtered display Exam (2) 23-Nov-2021	a123 a123 Severe Study	Custo Headache 2 visits : No	om View On × Status Status Site Name Site Name Site forms dedical History	Availab New Te isplay	le st Site Consent		a123 A	visit name	Q	Add New
	Ceneral Infor Ceneral Infor Cation Participant ID Study Name /isits ↓₹ Sort by Da Exam (4) 01-Dec-2021 3 forms filtered display Exam (2) 23-Nov-2021 Treatment (1	a123 mation a123 Severe l Study ate	Custo Headache 2 visits : No : M : M	Status Site Name Site Name Site Name Site Site Forms Site Site Site Site Site Site Site Site	Availab New Te isplay	le st Site		a123 A	visit name	Q	Add New

Form Migration

Definition: Form migration is the ability to transfer data from one Form version to another.

Example: A Data Manager might choose to migrate Form data in order to update the Form to a new version.

Data Managers can migrate Form data on a Participant-by-Participant basis or in a batch.

If multiple versions of a form are available before data has been entered, any user can choose which version to use. The forms with multiple versions will display the default on the form card.

When clicking on the form card, the form will open in the default version.

To edit the form in a version other than the default, click the actions menu and select which version to use.



However, if data has already been entered and a new Form version becomes available afterward, you must have a **User Role** of **Data Manager** to migrate Form data. You can migrate data either on a Participant-by-Participant basis or in a batch.

Form Migration Causes the Following:

- Audit Log: Form migration appears in the Audit Log for the Participant(s) the data was migrated for.
- **Extracts:** If data existed in the original Form version that does not exist in the new Form version, that data does not appear on extracts.
- Response Options: You can remove responses, but the values in the Name field for those that remain cannot be changed. For example, if the options were Mild, Moderate, and Severe (1, 2, and 3) you can remove Severe, but you cannot change Mild from 1 to any other value.

Note: Data will not be deleted from the database due to Form version migration, even if it no longer exists in the new Form version. (See Potential Migration Outcome Examples below for more information.)

Requirements:

- Data Entry Status: Data Entry Started
- Study Status: Available

- User Role: Data Manager
- Participant Status: Active
- Event Status: Active (not removed, locked, or skipped)
- Form Status: Active (not removed)
- New Form Version: Active (not removed)
- Previous Form Version: Active (used for initial data entry)

Prerequisites:

- The study must contain at least 2 versions of a Form.
- The study must be published.

Participant-by-Participant Migration:

- 1. Click the **View** button for the Participant on the Participant Matrix.
- 2. Click the three dot menu on the form card and select Reassign version.

<i>↓≡</i> Sort by Date					
Exam (2) 23-Nov-2021	2 :	Exam	2	Vitals	Ľ
Treatment (1) 02-Nov-2021	2 :	*Pre-Treatment Evaluation 18-Nov-21 by rbianchi+PI (1		View Edit	
Exam (1)	2 :	Exam	×	Remove Clear	2
01-NOV-2021	•	18-Nov-21 by rbianchi+PI	Ð	Reassign version	

- 3. Select the new Form version in the **New CRF Version** field.
- 4. Click the **Continue** button.

Reassign C	CRF to a New Ver	sion				
Participant ID:	001					
Event:	Exam (11-Nov-2	2021)				
Occurrence Nu	umber: 1					
CRF Name	Exam					
Current CRF Ve	ersion 1.2					
New CRF Versi	on 1 🗸					
Version Name	Layout_OID	Date Created	Owner	Default Version	Actio	n
1.2	F_PHYSICALEXAM_12	01-Nov-2021	rbianchi	Х	Q	P
1	F_PHYSICALEXAM_1	01-Nov-2021	rbianchi		Q	
Continue	Cancel					

Batch Migration:

- 1. In the header bar of Study Runner, click Tasks.
- 2. Select CRFs under Monitor and Manage Data.
- 3. (Optional) Confirm that you are planning to migrate to and from the correct version. You can either View the Form or Download Annotated CRF.
- 4. Click the **Batch CRF Version Migration** button next to the CRF you want to update.

Manage Case Report Forms (CRFs)									
Page 1 of 2	b bb		Find						
Exam	05-Nov-2021	rbianchi	F_PHYSICALEXAM	(original)	01-Nov-2021	rbianchi	Available		۹ 🗄
				1.2	01-Nov-2021	rbianchi	Available	N/A	Q
				1	01-Nov-2021	rbianchi	Available	N/A	Q

- 5. Select the current version of the Form in the Current Version of (Form Name) field.
- 6. Select the new version of the Form in the New Version of (Form Name) field.
- 7. (Optional) Select a site to update the version at. (The default is all sites.)
- 8. (Optional) If the Form is in multiple events, select an Event to update the version in. (The default is all Events.)
- 9. Click the **Preview** button.

Batch CRF Version Migration For Exam						
Current version of Exam:	1 ~					
New version of Exam:	1.2 🗸					
Site(s):	-All- Study Level Participants Only New Test Site					
Event(s):	-All- Baseline Exam Adverse Event					
Preview						

- 8. Verify the Migration Summary information that appears below the **Preview** button.
- 9. Click the **Migrate** button.

When you return to the CRF screen, the following message appears under **Alerts** in the sidebar: **Batch CRF version migration is running. You will receive an email once the process is complete**

The email you receive has a link to a report of the migration, which provides a list of all Participants and Forms that the data was migrated for.

Potential Migration Outcome Examples:

Example A: More Items in Original Form Version than New Form Version:

Before Migrating from Version A to B:

- Version A has an item named **meditem2**.
- Version B does not have an item named **meditem2**.
- Both versions have an item named **item1**.

After Migrating from Version A to B:

- Data for **meditem2** is migrated but not visible on the Form.
- Data for **item1** is migrated and is visible on the Form.
- Data from both versions appears on extracts, so there are more items.

Example B: More Response Options Available in Original Form Version than New Form Version:

Before Migrating from Version A to B:

- Both CRF versions have an item named item1.
- Version A has the response options **X**, **Y**, and **Z**.
- \bullet Version B only has the response options X and Y.
- $\bullet\,$ The user selected the response option Z in the original Form version.

After Migrating from Version A to B:

- Data for item1 is migrated, but it will appear as though no response was selected since response option Z no longer exists in the new Form version.
- For single-select types: New data will overwrite existing data.
- For multi-select types: New response options will be added. (If the user selected the response option Z in the original Form version, and that option no longer exists in the new version of the Form, if they then select the response option Y, both the values of Z and Y will be stored in the database.)

Example C: The maximum number of repeats in the original Form version exceeds that in the new Form version:

Before Migrating from Version A to B:

• Both Form versions have a repeating group named **group1**.

- The repeat count in Form A is 5.
- The repeat count in Form B is **3**.
- The user entered data for **5** repeats.

After Migrating from Version A to B:

- Only **3** rows of data appear on the Form even though version A had **5** repeats.
- No additional data can be entered.

Approved for publication by Kate Lambert. Signed on 2025-06-30 4:48PM

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8.4 Participant Audit Log

The **Participant Audit Log** tracks all changes made to a participant's data. Each row in the log records an audited event, detailing what changed and which user made the change.

You can access the **Participant Audit Log** in two ways:

1. From the Study Audit Log:

- $\circ~$ Click Study Audit Log from the navigation menu or the Tasks menu.
- $\circ~$ Click the icon in the Actions column for the desired participant.

2. From the Participant Details Page (PDP):

 $\circ\,$ Navigate to the PDP for the participant you wish to review.

Study Audit Log

The **Study Audit Log** page provides high-level information about each participant, offering a central point of access for all participants' audit logs. The table includes the following elements:

• Participant Data

- **Participant ID:** Unique identifier for each participant. Each row represents a participant in the study.
- $\circ~$ Created By: Username of the user who added the participant.
- $\circ~$ Status: Current status of the participant (e.g. Available, Removed).
- Actions: Click the View icon to access the detailed audit history for the selected participant.
- Table Controls
 - **Pagination Controls:** Located at the top of the table, these allow you to navigate through the list of participants. Use the buttons for first/previous/next/last page, and the

page-size selector to adjust the number of rows shown per page.

 Filters: Text boxes or filter links appear in the header row, allowing you to enter criteria and click Apply Filter to narrow the list by Participant ID or other values. The Clear Filter link resets the filtering

Audit Log for MGH										
HK H H H 50 V										
Participant ID	Created By	Status	Actions							
			Apply Filter Clear Filter							
12001	aflathers	Available	Q							
12001**	aflathers	Available	Q							
01-004	nkausar+crc@openclinica.com	Removed	Q							
01-001	nkausar+crc@openclinica.com	Available	Q							
01-003	nkausar+crc@openclinica.com	Removed	Q							
01-008	nkausar+crc@openclinica.com	Available	Q							
01-009	nkausar+crc@openclinica.com	Available	Q							
01-011	nkausar+crc@openclinica.com	Available	Q							
01-012	nkausar@openclinica.com	Available	Q							
01-0002	nkausar@openclinica.com	Available	Q							
01-0001	nkausar@openclinica.com	Available	Q							

Participant Audit Log

The **Participant Audit Log** details what data was added, modified, or removed at the participant, event, and form levels, when it was changed, and who made each change. The combination of timestamp, event type, and old/new values provides a complete history of the participant record, including changes made to participant-level data, event data, and form data.

Participant-Level Data

Participant-level data includes updates to status and contact information. The first two tables within the **Participant Audit Log** show this information.

0	1-001 Audit Logs 🛿 💶		
	Participant ID	Created By	Status
	01-001	nkausar+crc@openclinica.com	Available

Date/Time of Server	User	Value Type	Old	New
20-May-2025 12:52:01	nkausar@openclinica.com	Status	Removed	Available
20-May-2025 09:36:42	nkausar@openclinica.com	Status	Available	Removed
20-May-2025 09:34:23	nkausar+crc@openclinica.com	Participant First Name	<masked></masked>	<masked></masked>
20-May-2025 09:34:23	nkausar+crc@openclinica.com	Participant access code		
20-May-2025 07:17:07	S_HEADACHE.TEST.SS_01001	Secondary Subject ID		
20-May-2025 06:08:34	nkausar+crc@openclinica.com	Participant First Name	<masked></masked>	<masked></masked>
20-May-2025 06:08:34	nkausar+crc@openclinica.com	Participant Email Address	<masked></masked>	<masked></masked>
20-May-2025 06:08:34	nkausar+crc@openclinica.com	Participant access code		
20-May-2025 06:07:03	nkausar+crc@openclinica.com			
	Date/Time of Server 20-May-2025 12:52:01 20-May-2025 09:36:42 20-May-2025 09:34:23 20-May-2025 09:34:23 20-May-2025 09:34:23 20-May-2025 09:34:23 20-May-2025 06:08:34 20-May-2025 06:07:03	Date/Time of ServerUser20-May-2025 12:52:01nkausar@openclinica.com20-May-2025 09:36:42nkausar@openclinica.com20-May-2025 09:34:23nkausar+crc@openclinica.com20-May-2025 09:34:23nkausar+crc@openclinica.com20-May-2025 09:34:23nkausar+crc@openclinica.com20-May-2025 09:34:23s_HEADACHE.TEST.SS_0100120-May-2025 06:08:34nkausar+crc@openclinica.com20-May-2025 06:08:34nkausar+crc@openclinica.com20-May-2025 06:08:34nkausar+crc@openclinica.com20-May-2025 06:08:34nkausar+crc@openclinica.com20-May-2025 06:08:34nkausar+crc@openclinica.com	Date/Time of ServerUserValue Type20-May-2025 12:52:01nkausar@openclinica.comStatus20-May-2025 09:36:42nkausar@openclinica.comStatus20-May-2025 09:34:23nkausar@openclinica.comParticipant First Name20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant access code20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant access code20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant access code20-May-2025 07:17:07s_HEADACHE.TEST.SS_01001Secondary Subject ID20-May-2025 	Date/Time of ServerUserValue TypeOld20-May-2025 12:52:01nkausar@openclinica.comStatusRemoved20-May-2025 09:36:42nkausar@openclinica.comStatusAvailable20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant First Name <masked>20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant access code20-May-2025 09:34:23nkausar+crc@openclinica.comParticipant access code20-May-2025 07:17:07S_HEADACHE.TEST.SS_01001Secondary Subject ID20-May-2025 06:08:34nkausar+crc@openclinica.comParticipant First Name20-May-2025 06:08:34nkausar+crc@openclinica.comParticipant Email Address20-May-2025 06:08:34nkausar+crc@openclinica.comParticipant access code20-May-2025 06:08:34nkausar+crc@openclinica.comParticipant Email Address20-May-2025 06:08:34nkausar+crc@openclinica.comParticipant access code20-May-2025 06:07:03nkausar+crc@openclinica.comParticipant access code</masked>

- **Participant ID**: Unique identifier for each participant in the study.
- Created By: Username of the person who created the participant record.
- Status: Current status of the participant (e.g., Available, Removed).
- Audit Event: Type of action recorded (e.g., Participant Created, Participant [contact data type] changed).
- Date/Time of Server: Server timestamp when the audit event occurred.
- User: Username of the person who performed the logged action.
- Value Type: Field that was modified (e.g., Participant First Name, Status).
- Old: The value before the change was made (blank if newly created).
- New: The updated value after the change (blank if the value was removed).

Note: Protected data, such as the participant's email or name, will be masked in the audit logs.

Event-Level Data

Event-level data includes updates to a participant's events. This section contains a **Table of Contents** with links to the various events and the associated event-specific audit log.

• Event Table of Contents

- **Study Events:** The defined visits or timepoints for a study participant (e.g., Consent, Follow-up).
- Start Date: The planned or actual start date of a specific study event.
- Occurrence Number: Indicates how many times a repeating study event has occurred.

Study Events	Location	Start Date	Occurrence Number
Consent		20-May-2025	1
Eligibility		20-May-2025	1
Participant Baseline		20-May-2025	1
Clinical Exam		20-May-2025	1
Followup Visit		20-May-2025	1
End of Study		20-May-2025	1

• Event Audit Log

- **Audit Event:** The type of action recorded (e.g., Study Event workflow status changed, Study Event start date changed, etc.)
- **Date/Time of Server:** The server timestamp when the audit event occurred.
- \circ **User:** The username of the person who performed the logged action.
- Value Type: The field that was modified (e.g., Status, Start Date).
- $\circ~$ Old: The value before the change was made. Blank if newly created.
- $\circ~$ New: The updated value after the change. Blank if the value was removed.
- $\circ~$ **Details:** Populated when an Investigator signs the participant's event.

Audit EventDate/Time of ServerUserValue TypeOldNewDetailsStudy Event signed23-Jul-2025 12:39:12Rausar+investigator@openclinica.comSignedImage: Signed openclinica.comThis event was signed by Neha Kaus (nkausar+investigator@openclinica.comStudy Event signed23-Jul-2025 12:39:12nkausar+investigator@openclinica.comSignedImage: Signed openclinica.comThis event was signed by Neha Kaus (nkausar+investigator@openclinica.comStudy Event workflow Op:26:3820-May- 09:26:38S_HEADACHE.TEST.SS_01009StatusData Entry StatusCompletedStudy Event workflow Op:26:20S_HEADACHE.TEST.SS_01009StatusData Entry StatusCompletedStudy Event op:26:20S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy Event op:26:20S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy Event op:26:20nkausar+crc@openclinica.comStatusScheduledData Entry StartedData Entry StartedStudy Event op:26:20nkausar+crc@openclinica.comStatu DataScheduledData Entry Started20-May- 2025Study Event op:16:29nkausar+crc@openclinica.comStart Date20-May- 202520-May- 202520-May- 2025							
Study Event signed tatus changed23-Jul-2025 12:39:12nkausar+investigator@openclinica.comSignedSignedImageThis event was signed by Neha Kaus (nkausar+investigator@openclinica.com on Wed Jul 23 12:39:12 UTC 2025 un the following attestation: "I confirm the data for this participant are a ful accurate, and complete record of th observations recorded. I intend for t electronic signature to be the legally binding equivalent of my written signature." This signature applies to following forms in this event: eConsStudy Event vorkflow observations changed20-May- 09:26:20S_HEADACHE.TEST.SS_01009StatusData Entry StartedCompletedStudy Event vorkflow objectionS_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedCompletedStudy Event vorkflow on 2025 oge:S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy Event vorkflow on 2025 oge:S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy Event vorkflow on 2025 oge:S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy Event vorkflow on 2025 oge:S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedData Entry StartedStudy event vorkflow on 2025 oge:S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedScheduledStudy event vorkflow on 2025 	Audit Event	Date/Time of Server	User	Value Type	Old	New	Details
Study Event status20-May- 2025 09:26:38s_HEADACHE.TEST.SS_01009statusData Entry StatuscompletedStudy Event status20-May- 2025 09:26:20s_HEADACHE.TEST.SS_01009statusScheduleData Entry StatusStudy 	Study Event signed status changed	23-Jul-2025 12:39:12	nkausar+investigator@openclinica.com	Signed		Yes	This event was signed by Neha Kausar (nkausar+investigator@openclinica.co on Wed Jul 23 12:39:12 UTC 2025 under the following attestation: "I confirm th the data for this participant are a full, accurate, and complete record of the observations recorded. I intend for this electronic signature to be the legally binding equivalent of my written signature." This signature applies to the following forms in this event: eConservations
Study Event workflow changed20-May- 2025 (09:26:20)S_HEADACHE.TEST.SS_01009StatusScheduledData Entry StartedStudy Event start date (Date 2025)20-May- 2025)Neausar+crc@openclinica.comStart Date20-May- 2026)20-May- 2025)	Study Event workflow status changed	20-May- 2025 09:26:38	S_HEADACHE.TEST.SS_01009	Status	Data Entry Started	Completed	
Study Event 20-May- start 2025 nkausar+crc@openclinica.com Date Start Date 20-May- date 09:16:29 changed Change Ch	Study Event workflow status changed	20-May- 2025 09:26:20	S_HEADACHE.TEST.SS_01009	Status	Scheduled	Data Entry Started	
	Study Event start date changed	20-May- 2025 09:16:29	nkausar+crc@openclinica.com	Start Date		20-May- 2025	

Form-Level Data

Form-level data includes information about form status as well as all data entry / updates made to form data. There is a table that acts as a Table of Contents including links to the various events, as well as the event-specific audit log.

• High Level Form Information

- **Name:** The name of the form.
- $\circ\,$ Version: The current version of the form.
- $\circ~$ **Owner:** There are two possible options for the owner:
 - Form entered or modified by the study user in Study Runner: The owner is shown as the user's email address.

Nai	me	Version	Date Interviewed	Interviewer Name	Owner
Scre	eening Criteria	1			nkausar@openclinica.com

• Form entered or completed by the Participant in Participate: The owner is shown as the participant's unique ID.

Name	Version	Date Interviewed	Interviewer Name	Owner
eConsent	1e			S_HEADACHE.TEST.SS_01001

• Form Data Changes

- Audit Event: The type of action recorded (e.g., Event CRF workflow status changed, Item data value updated, etc.)
- **Date/Time of Server:** The server timestamp when the audit event occurred.
- **User:** The username of the person who performed the logged action.
- Value Type: The field that was modified (e.g., Status, [form item OID], etc.).
- Old: The value before the change was made. Blank if newly created.
- $\circ\,$ New: The updated value after the change. Blank if the value was removed.
- $\circ~$ **Details:** Populated when an eConsent form is signed.

Audit Event	Date/Time of Server	User	Value Type	Old	New	Details
Event CRF workflow status changed	20-May- 2025 09:26:38	S_HEADACHE.TEST.SS_01009	Status	Initial Data Entry	Completed	
Consent status changed	20-May- 2025 09:26:38	S_HEADACHE.TEST.SS_01009	Consent		Consent Signed	This form was signed by <masked> (01 009) (SS_01009) on Tue May 20 09:26:38 UTC 2025 under the following attestation: "I freely and voluntarily consent to participate in this study. I intend for this electronic signature to be the legally binding equivalent of my written signature."</masked>
ltem data value updated	20-May- 2025 09:26:27	S_HEADACHE.TEST.SS_01009	CONSENT_YN (1)		Yes	
ltem data value updated	20-May- 2025 09:26:26	S_HEADACHE.TEST.SS_01009	AGREE (1)		I am willing to participate in this study. (1)	
ltem data value updated	20-May- 2025 09:26:20	S_HEADACHE.TEST.SS_01009	CODE (1)		CAR-T	\triangleright
Event CRF workflow status changed	20-May- 2025 09:26:20	S_HEADACHE.TEST.SS_01009	Status		Initial Data Entry	

Functional approval by Kate Lambert. Signed on 2025-08-08 10:36AM

Approved for publication by Paul Bowen. Signed on 2025-08-15 11:38PM

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8.5 Suggested SOPs

List of Suggested Data Management Standard Operating Procedures for Electronic Data Capture The following list of Standard Operating Procedures (SOPs) is a suggested set of SOPs for users of electronic data capture (EDC) systems. This is in no way meant as an exhaustive list, but is instead presented as a recommended minimum set of data management procedures. For a complete list of required SOPs, please consult the current regulations and guidelines applicable to your business and/or study(ies). OpenClinica's professional services team can help you develop SOPs, or review your existing SOPs. In addition to this list, organizations that use electronic systems for clinical trials should audit the vendor(s) of the software system(s) used to ensure the appropriate development SOPs were in place and followed appropriately throughout the development of the software.

SOP	Description
1. Development and maintenance of SOPs	Define the SOP template and the development, review/approval process for all SOPs, including roles/responsibilities, SOP release/distribution requirements, SOP version control, etc.
2. SOP Deviations	Describe the process for reporting and documenting any deviations from the SOPs. Be sure to address planned as well as unplanned deviations.
3. Data Privacy and Protection	Describe the process for ensuring data privacy and protection within your organization as well as via your software solution/service (if applicable).
4. Document/File/Study Binder Management	Describe the process for managing all documents related to study conduct. Include details on any differences between in-house vs. CRO-conducted studies. What is the version control process for the Study Binder?
5. Data Management Roles and Responsibilities	Clearly define the roles and responsibilities for all users participating in study data management.

6. Data Management Plan (DMP)	Describe the DMP template. Be sure to include a list of the SOPs to be followed, the clinical data management system to be used, descriptions of data sources, data handling processes, data transfer formats and process, and quality control procedures to be applied. Define the process for developing, approving, and maintaining the Data Management Plan. Include details on version control.
7. Data Monitoring Plan	 Describe the Data Monitoring Plan template. The Data Monitoring Plan should ensure: The rights and well-being of participants are protected The reported data are accurate, complete, and verifiable from source documents. The trial is conducted in compliance with currently approved protocol and other applicable regulatory requirements If partial data monitoring is used, be sure to specify exactly what [partial data monitoring] means for the study in question (e.g., 100% monitoring for a list of critical data values, 100% verification of 20% of the subjects, etc.) Define the process for developing, approving, and maintaining the Data Monitoring Plan. Include details on version control.
8. Statistical Analysis Plan	Describe the Statistical Analysis Plan template and define the process for developing, approving, and maintaining the Statistical Analysis Plan; include details on version control.
9. e-CRF Design and Development	Define the process for design, development, and standardization of eCRFs. Be sure to include details for the design, development, approval, and version control process.
10. Study-Specific Database Design	Describe the process for setting up any study- specific attributes (anything outside of your standard eCRFs). This may include annotated CRFs or design documents.
11. Edit Check/Data Validation Programming	Document the process for creating edit check specifications, as well as edit check development, review and approval, testing, documentation, and version control.
12. Study User Acceptance Testing (UAT)	Define what testing is required and what documentation is required to demonstrate that the study passed validation. Specify who gives approval for use of the system. Testing should not be performed by the person who built the study database.

13. Data Entry	Define the process for entering and editing data. Data entry should address general guidelines (inputting scientific symbols (if applicable), use of UI features, etc.) as well as how/where to document study-specific guidelines.
14. Data Receipt and Handling	Define the different means by which data may be received. Be sure to address all types of data receipt [] EDC, ePRO, imports, web services, paper, etc.
15. Discrepancy Management	Define the process for reviewing and resolving data discrepancies, and define roles and responsibilities associated with discrepancy management.
16. Coding	Define the process for coding adverse events and medications, any review process involved, and the change control or re-coding process.
17. Serious Adverse Event Reconciliation	Define the process for handling serious adverse events and the reconciliation process between data management and safety surveillance. Define any review timeframes and sign-off procedures that may be required prior to locking the database.
18. Lab Data Management	Define the process for handling laboratory data. If necessary, differentiate between local vs. central labs and the data import and discrepancy resolution process.
19. Data Extraction and Validation	Define the process for extracting data and the method for verifying that the data that was extracted matches the data that was entered into the system.
20. Data Transfer and Validation	Define the process for transferring data to other systems and the method for verifying that the data that was transferred matches the data that was entered into the original system.
21. Database Security	Describe the requirements, methods, and tests that ensure your database is secure. This should include username/password requirements, password expiration, means for resetting passwords, how system/study access is granted/revoked, roles and role-based access, etc.
22. Database Lock/Unlock/Closure	Define the process for locking, unlocking, and closing a database. Include details on lower- level (e.g., event-level locking) if lower-level locking methods are used. Address investigator signature requirements prior to locking.

23. Data Retention and Archival	Define the data retention, archival, and retrieval process. For databases managed by external sources (CRO, hosting service provider), define the process for accessing the database throughout your defined retention period. This should include the clinical data, eCRFs, and discrepancies/resolutions.
24. CRO and Vendor Management	Detail the CRO / vendor selection and management process. Address sign-off procedures, meeting frequency, metrics, etc. Also address the auditing process and schedule.
 25. Training SOPs HIPAA GDPR 21 CFR Part 11 System(s) 	Define how the data management staff and site staff are trained on the topics listed at left (and any other topics as you see fit), how training is documented, re-training requirements, and how training records are maintained.

- Study-specific issues/practices
- Internal (e.g. sponsor)
- External (e.g. site)

References and Additional Resources

21 CFR Part 11, US Department of Health and Human Services, Food and Drug Administration, March 1997

Guidance for Industry Part 11, Electronic Records; Electronic Signatures [] Scope and Application, US Department of Health and Human Services, Food and Drug Administration, August 2003

Guidance for Industry E6 Good Clinical Practice: Consolidated Guidance, US Department of Health and Human Services, Food and Drug Administration, April 1996

Guidance for Industry [] Computerized Systems Used in Clinical Trials, US Department of Health and Human Services, Food and Drug Administration, May 2007

PIC/S Guidance [] Good Practices for Computerised systems in Regulated []GXP[] Environments, PIC/S, September 2007

Susanne Prokscha, Practical Guide to Clinical Data Management, Third Edition, CRC Press, Oct 26, 2011

Approved for publication by Ben Baumann. Signed on 2021-02-23 11:13AM

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