Newcastle Joint Research Office



The Newcastle upon Tyne Hospitals

REDCap Data Resolution Workflow

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Data Resolution Workflow is the formal process of documenting and managing data issues within REDCap. If there is an issue with a data value in a REDCap project, a "query" is raised to a designated individual who is tasked with responding and resolving this issue.

Procedure/Method

Enabling Data Resolution Workflow for your REDCap Project users:

1. Once within your REDCap project, select the "Project Setup".



2. On the "Project Setup" tab, scroll down to the "Enable optional modules and customisations" setup box and select "Additional customisations".



3. Scroll down in the "Additional customisations" tab to find the external module entitled



4. The ability to raise and respond to queries is governed by the standard REDCap user roles. Please get in touch with the NJRO Informatics Team if you need additional customisation.

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Assigning Queries to Other Users

1. In each instrument of your REDCap Project, each variable inputted will have a grey balloon appear by the side of the data entry boxes. Hovering over it, it will turn yellow and by selecting this, you open the data resolution workflow.

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resolution workflow

2. You can now open a query and assign this to a user to respond to, who can be notified of this by email if desired. Finally, a comment box is used to describe exactly what the problem with this data entry is.

Date/Time	User	Comments and Details
09/03/2021 12:05pm	mmcteer	Data Changes Made: initial_phone = '07927297487471987'
09/03/2021 12:11pm	mmcteer	 ○ Verified data value — OR — ● Open query Assign query to a user (optional): jbloggs (Joe Bloggs) ▼ Notify this user of their assignment using:
		Open query Cancel

Responding to Queries

 If the individual who opened the query ticked the notify user by email box, the responder will receive an email containing a link sending them straight to the Data Resolution Workflow to respond. The user can also find a list of queries assigned to them through the "Resolve Issues" tab on the left hand side of REDCap:

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Applications File Repository Resolve Issues	rules on the Find issues tab. Ine table lists the name of the record and the specific field or Data Quality rule to which the data query belongs, as well as the user assigned to the query (if applicable), the number of days the data query has been open, and a brief snippet of the query's first and last comment. The results in the table can be filtered by the query status type (e.g., open, closed), by certain fields or Data Quality rules, and also by users assigned to it. Each data query may be viewed by clicking the button to its left.							
 NIRO REDCap Further Information NIRO REDCap Project Administrator Guidance NIRO REDCap Data Security SOP NIRO REDCap Remote Electronic Consent 	Data Resolution Dashboard Filters: Open / unresolved issues (1) ▼ All fields and rules ▼ All data access groups ▼ User assigned (all users) or not assigned ▼							
SOP	Click button to view data query	Record (Sorted by DAG)	Data Quality and/or Field	y rule	User Assigned	Days Open	First Update	Last Update
NIHR BioResource Website	😡 1 comment	38 Sherlock Holm	Field: initial_ (Contact telep	phone phone number)	jbloggs	0	mmcteer (09/03/2021 12:14pm): "Invalid phone number - too long"	[same as first update]
A MILL BIOLESOURCE NCE LISEN REDCap								

2. Now that the query has been seen, the responder can go into the records and edit the variable(s) that need fixing. Once this has been done, they can return to the comment box on the 'Resolve Issues' tab and alert the user who raised the query that this is now corrected:

Date/Time	User	Comments and Details				
09/03/2021 12:05pm	mmcteer	Data Changes Made: initial_phone = '07927297487471987'				
09/03/2021 12:14pm	mmcteer	Assigned to user: jbloggs (Joe Bloggs) Comment: "Invalid phone number - too long"				
09/03/2021 12:39pm	jbloggs	Data Changes Made: initial_phone = '07123456789'				
09/03/2021 12:39pm	jbloggs	Reply with response: Corrected - Typographical error Upload file (optional): Image: Upload file Comment: Phone number now changed to a valid number.				
		Respond to query Cancel				

Closing a Query:

1. Once a query has been responded to and fixed, the individual who originally flagged the query is alerted in the 'Resolve Issues' tab in REDCap. They can then respond and close the query:

09/03/2021 2:12pm	mmcteer	Close the query Send back for further attention Comment: Thank you.		
		Clo	se the query	Cancel

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2. This can be checked by observing the speech bubble next to the variable that has been queried being changed from an exclamation point to a green tick:



Resolution Metrics

1. Following the opening of a query, REDCap provides helpful metrics and statistics surrounding the Data Resolution Workflow. This can be accessed through the 'Data Quality' section on REDCap and selecting the 'Resolution Metrics' tab:

🌡 View project as user: 🔤 select a user 💙	🛱 Data Quality					
Project Home and Design						
🖀 Project Home 🛛 🚝 Project Setup	Q Find Issues	Resolve Issues	내 Resolution Metrics			
Designer · I Dictionary · E Codebook Project status: Production	El VIDEO: Data Resolution Workflow or Read introduction to Data Resolution Workflow					
Data Collection	This page displays v	arious statistics and m	etrics regarding all data qu	eries that are curr	ently unresolved or have already	/ been resolved via
Survey Distribution Tools Record Status Dashboard Add / Edit Records Show data collection instruments	opened and the tim refers to the time la Groups exist and sir	e it was first responder pse between when a q nce you do not belong t	to the average time for q I to by a user (includes bo uery was opened and the o a group, it will also displ	th open and closed time it was closed ay several charts fo	I queries). The 'average time to q (includes only closed queries). Si or comparing the resolution met	uery resolution' nce Data Access rics of all groups.
Applications	General statistics					
 ▲ Alerts & Notifications ➡ Calendar ➡ Data Exports, Reports, and Stats ➡ Data Import Tool ➡ Data Comparison Tool ■ Logging 	Number of open / u Number of closed / Average time querie Average time for qu Average time to que	nresolved queries: 0 (resolved queries: 1 rs remain unresolved: 0 ery response: 0.0 days ry resolution: 0.0 days	unresponded: 0, responde days (open queries only (includes open and close (closed queries only)	ed: 0)) d queries)		
 File Repository User Rights and ADDAGs Customize & Manage Locking/E-signatures Data Quality and Resolve Issues External Modules 		Number of open	queries (by data access	group)	View as Bar Chart 💙	
 NJRO REDCap Further Information NJRO REDCap Project Administrator 	CRN NENC					
https://nhsnewcastle-redcap.net/redcap_v10.6.4/DataQuality/in	ndex.php?pid=45					

- 2. These statistics include the number of open/unresolved queries; number of closed/resolved queries; the average time queries remain unresolved; the average time for a query response and the average time for a query to be resolved.
- 3. Visualisations are also created within the 'Resolution Metrics' tab, displaying the most queried fields and queried records. The user has the choice to display this as a bar chart of a pie chart:

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