



# Clinical Data Management System (CDMS) Guidelines

**Project**: SWEET

**Document Version**: 1.0

**Issue Date**: 05.02.2024



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# 1 List of Abbreviations

Abbreviation	Explanation
CDMS	Clinical Data Management System
CI	Chief Investigator
CRF	Case Report Form
DEC	Data Entry Clerk
eCRF	Electronic Case Report Form
NHS	National Health Service
SAE	Serious Adverse Event
SEC	Self-Evident Correction
UK	United Kingdom
WCTU	Warwick Clinical Trials Unit



# 2 Version History

Document versioning is used to control and track the CRF and CDMS Guidelines. For every approved iteration of this document a new row is added to table 1, detailing the version number, the author(s) of the version, the date that version was approved and a summary of the reason for creating a revised version.

Version Number	Author	Issue Date	Description of Change
1.0	Alice Longe & Raegan	05.02.2024	Initial version
	Barrows		

#### 3 Document Overview

#### 3.1 Purpose and scope

To describe the timelines for data entry, and how data can be entered and managed on the database.

#### 3.2 Audience

The site research team inputting and managing the data at their site.



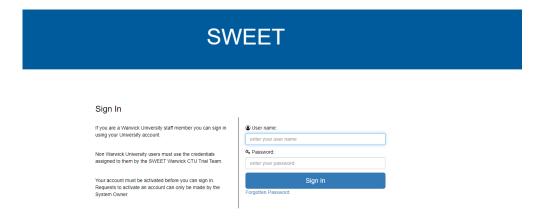
### 4 Clinical Data Management System (CDMS)

#### 4.1 How to access the system

Individual access to the SWEET CDMS will be given once training has been completed, staff members have been added on the delegation log and the site has received greenlight to commence trial activities. (Site Training logs & Delegation logs need to be provided to WCTU as evidence)

The database can be accessed using the URL: https://ctu.warwick.ac.uk/SWEET.

The database is compatible with the following internet browsers: Google Chrome & Microsoft Edge.



During site set up you will also need to provide your departments IP address to the SWEET team, so that the computers that will be used to access the database are 'whitelisted' by our programming team. You will then be provided with a username and temporary password. When you first login you will immediately be prompted to change your password.

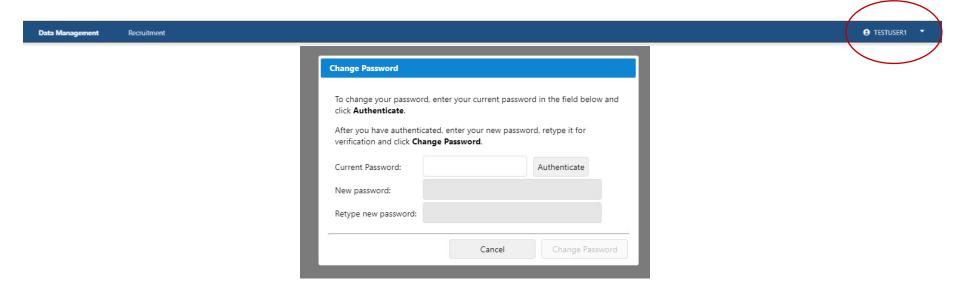


Valid passwords must comply to the following rules:

- must be at least 12 characters
- must contain at least one lower case letter, one upper case letter, one digit and one non-alphanumeric character

If you need to change your password in the future, you will need to do so by clicking on the arrow next to your username along the top of the page and selecting 'Change Password'. This will then bring up a new dialog window where you can add the new password.

Please note that failure to input the correct password on 5 consecutive occasions will lock you out of the database. We recommend you use the forgotten password link on the log in page if you cannot remember your password. If you are locked out of the database, you will need to re-request access by emailing <a href="SWEET@warwick.ac.uk">SWEET@warwick.ac.uk</a>



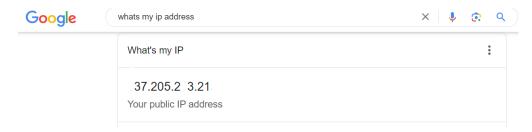


#### 4.2 How to find your IP address

The servers on which the database works block connections from external IP addresses, by default. We therefore require you to provide your public IP address, so we can grant access. IPs are allowed through based on the first 3 numbers, which are generally common to users at the same site.

You can easily find out your public IP address through a Google search using the following link: <a href="https://www.google.com/search?q=what+is+my+ip">https://www.google.com/search?q=what+is+my+ip</a>. Please copy and paste your IP address as displayed and email to SWEET@warwick.ac.uk.

Alternatively, if the link above does not work, open Google in your preferred browser and type/copy in to the Google search bar 'What's my IP address'. The first result returned is your IP address. It usually only requires 1 person at each <u>site to do this.</u>



If on logging into the database, you receive a 401 error- you will need to re-provide us with your current IP address to reauthorise. Sometimes sites will have multiple IP addresses and your device may transfer from one to the other. This is usual, so please at that time follow the steps above and email the SWEET Team

#### 4.3 Navigating the system

Once you have signed in, along the top of the page you will see the Data Management and Recruitment and tabs.



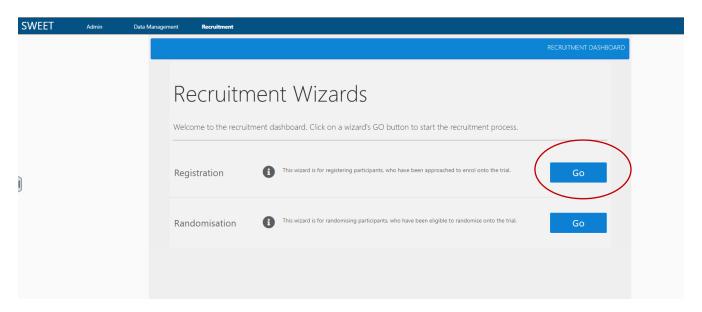


#### 4.4 Recruitment

To access the recruitment wizard, you need to click on the recruitment tab. Once in the recruitment wizard you can complete a new registration or complete an existing registration (where you have not been able to proceed with a registration and saved the details for later). **Informed consent must** have been received before a participant is registered.

#### 4.5 How to Register a patient

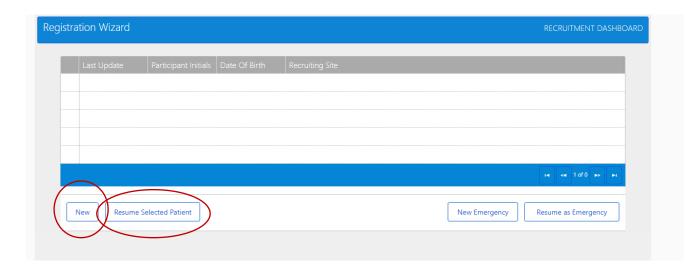
On the recruitment wizard page, you will see the Registration option. To the right you will see a blue 'GO' tab, click this button to start the registration process. This will open the new registration wizard page.



Selecting 'New' will allow you to register a new participant.



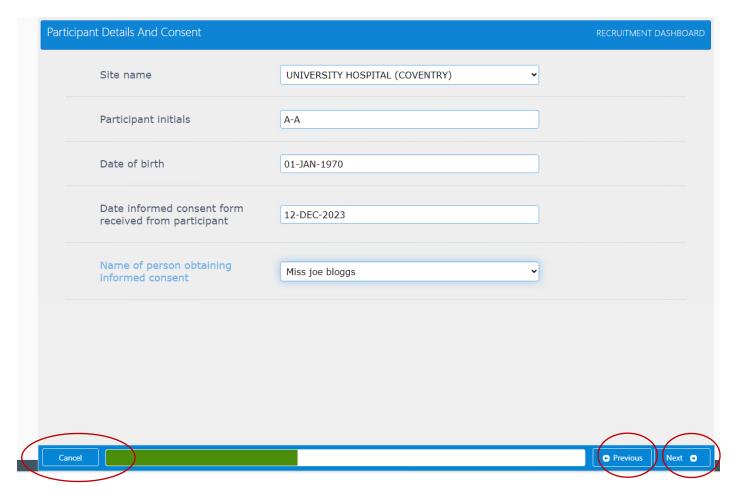
If you have had to leave the registration process part way through, these details will be saved on this page, select the relevant participant from table and when you are ready to proceed with the registration, click 'Resume Selected Patient'.



You will need to complete the details on each page before progressing to the next page to do this you need to click on the 'Next' button on the bottom right-hand side of the page. If at any point you need to correct information added on a previous page, please click the 'Previous' button on the bottom right-hand side of the page.

# Tip! Initials must be entered as a 3 digits and must be entered as capital letters only i.e. A-A or AAA All months must be entered in 3 character format i.e. JUN

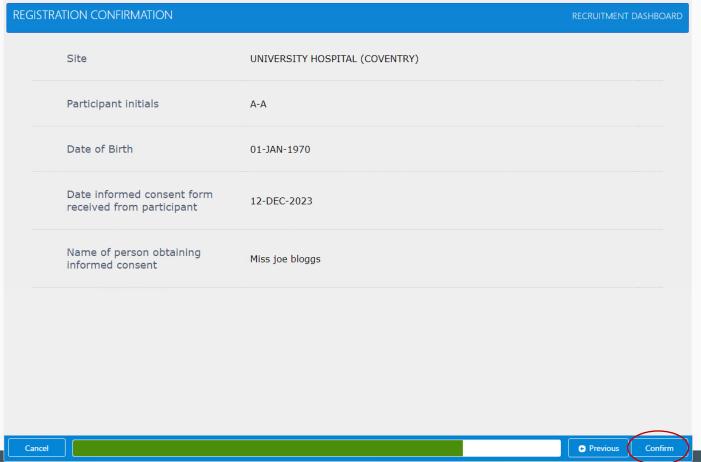




If at any point you need to leave the registration process, select 'Cancel'. The details will automatically be saved and will appear on the main recruitment dashboard for you to resume when you need to. Please remember to **resume** these patients if required to avoid duplicate registrations of the same patient.



You will be asked to confirm the information you have entered is correct. Select 'confirm'

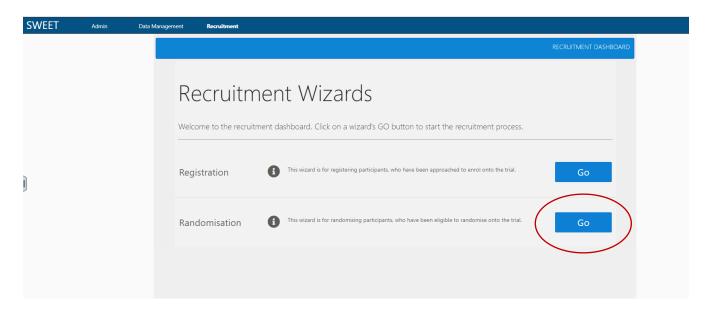


One registered you will receive the participants <u>trial number</u> and can complete the baseline pre-randomisation pack which contains the Eligibility, and Contact Details CRF (see section 5). The baseline questionnaire should also be completed prior to randomisaiton. If the participant has opted to complete these electronically, WCTU will organise distribution of these through the database. If the participant has opted to complete these on paper, you will need to confirm these have been completed prior to randomisation.



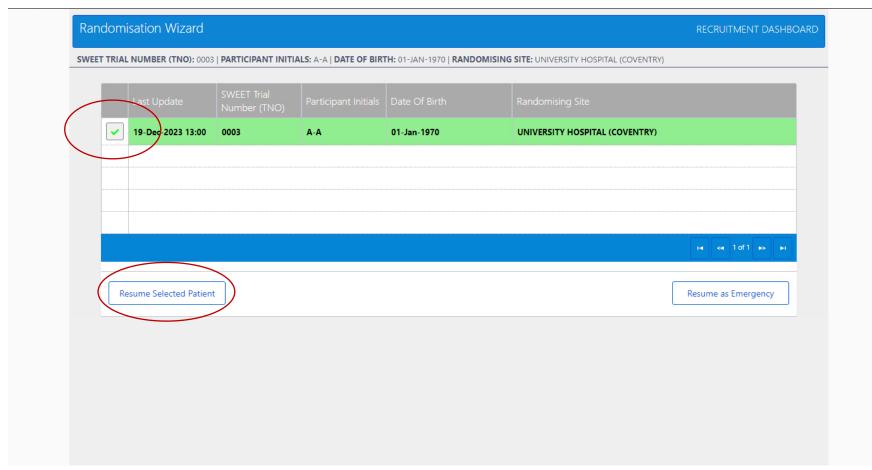
#### 4.6 How to randomise a participant

On the recruitment wizard page, you will see the Randomisation option. To the right you will see a blue 'GO' tab, click this button to start the randomisation process. This will open the new randomisation wizard page.



This will bring up all registered participants at your site, awaiting randomisation. Please select the correct participant and select 'resume selected patient'.

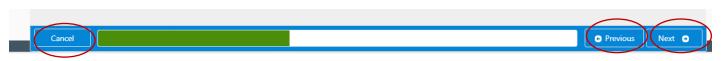




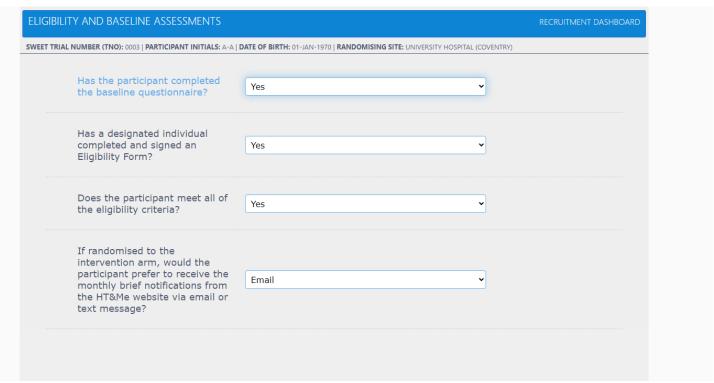
You will need to complete the details on each page before then clicking on the 'Next' button on the bottom right-hand side of the page. If at any point you need to correct information added on a previous page, please click the 'Previous' button on the bottom right-hand side of the page.

If at any point you need to leave the randomisation process before randomisation, select 'Cancel'. The details will automatically be saved and will appear on the main recruitment dashboard for you to resume when you need to.



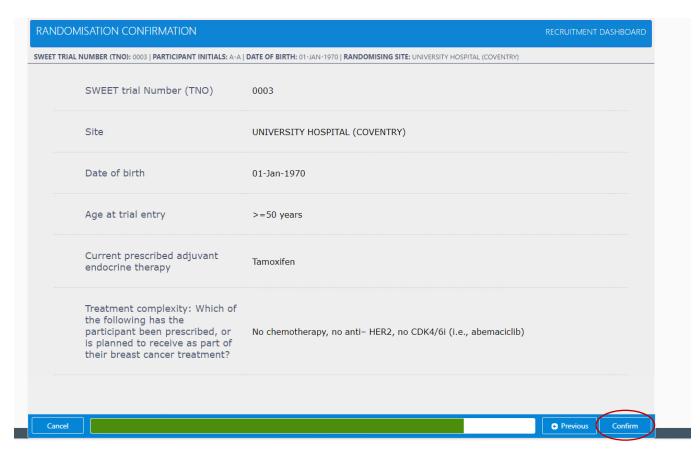


Prior to randomisation, you will need to confirm that the baseline questionnaire, and eligibility form have been completed. It is important from a methodological perspective that a participant **does not** know their trial allocation prior to completing their baseline questionnaire.



You will be asked to confirm all details are correct before proceeding with the randomisation.





Once confirmed, you will then receive the participants trial allocation. The site PI, randomising practitioner, SWEET study nurse and main site contact will also receive a notification by email to confirm which arm the participant has been randomised to. Please save these emails appropriately as they are required within your ISF.



RANDOMISATION SUMMARY		RECRUITMENT DASHBOARD
SWEET TRIAL NUMBER (TNO): 0003   PARTICIPANT INITIALS: A	-A   DATE OF BIRTH: 01-JAN-1970   RANDOMISING SITE: UNIVERSITY HOSPITAL (COVENTRY)	
SWEET trial Number (TNO)	0003	
Treatment allocation	HT&Me Intervention + usual care	

# 5 Data Management

Under the Data Management tab, you will see 3 headers: Participant Manager, Form Manager, Query Manager.



#### 5.1 Participant Manager

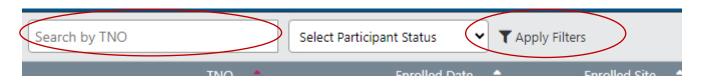
This shows a list of all the participants that have been enrolled at your site and will show an 'at glance' view of their form status.



	TNO *	Enrolled Date 💠	Enrolled Site 💠	Completed Forms	Incomplete Forms	Overdue Forms	Unobtainable Forms	Missing Fields
View Forms	0001	06-Jun-2023	Queen Elizabeth Hospital	1	44	0	0	0
View Forms	0002	07-Jun-2023	University Hospital (Coventry)	1	30	0	0	0

You can search for a specific participant using the 'Search by TNO' feature, or you can filter by participant status using the drop-down arrow and apply filters button to only display:

- 1. Registered participants only
- 2. Randomised to the HT&Me intervention + usual care
- 3. Randomised to usual care alone

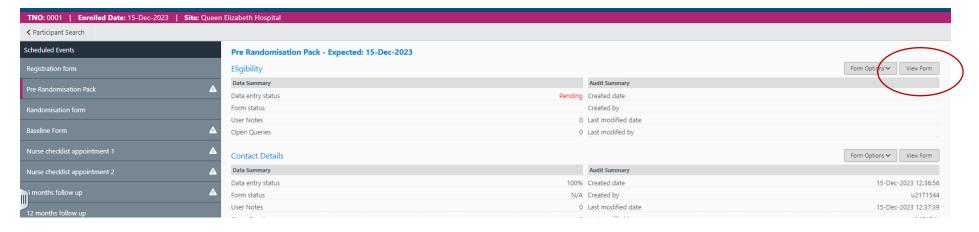


For each participant, you will see a 'View Forms' button, on the left-hand side which will allow you to access all of the forms for that participant.



Once on this view you can see the individual status of each form by clicking on the form you want to look at on the left, (this example shows the forms expected at baseline) and then on the right-hand side, you can click on 'View Form' to open the eCRF to complete, edit or review.





#### 5.2 General guidance for data entry

#### 5.2.1 Dates

The database requires the date to be entered in the format dd-mmm-yyyy. If only a partial date is known, apply these rules:

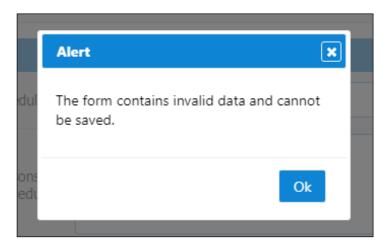
• If the day is unknown, enter as 15-mmm-yyyy

If the day and month are unknown, the field should be left blank and marked as unobtainable (see section 5.2.4 for how to do this).

#### 5.2.2 Required fields and validations

Some fields are required within the database, this means that data must be inputted into these fields before a form can be saved. If you try to save a form with a required field missing, you will receive the following error message:





Once you select 'Ok' the system will flag the relevant required field within the form, to prompt you to enter the missing data. A form cannot be saved until this data is complete.



Validations are also used in some places within the database to ensure data is entered logically and in the correct format (i.e. dates/ numerical values). If data is entered in an incorrect format, the following flag will appear below the relevant field indicating the required data format.

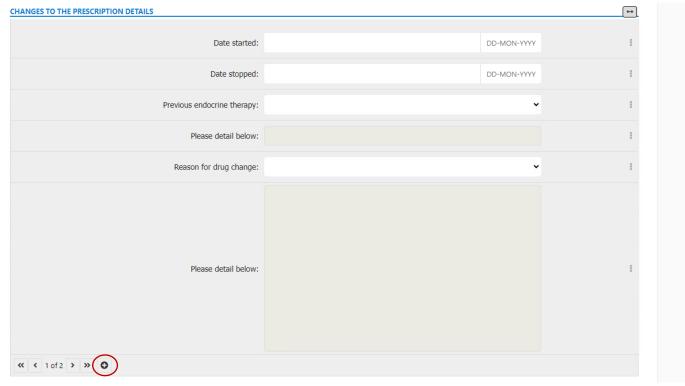




#### 5.2.3 Sub-forms

There are some instances within the database where a response to a question will activate a sub-form This is common (but not exclusively) where the paper CRF has a data table. A sub-form allows you to enter several records against one question item. An example of a sub-form is on the Baseline Form; if a participant has any changes to their prescription, these will need to be added on to the sub-form.

To add a new record to the sub-form, select the plus (+) icon; you can add as many records as required.





Records added in error can be deleted using the **dustbin** icon.



#### 5.2.4 Unobtainable flag

If a data item is not available and is expected to be so for the duration of the study therefore cannot be entered, the unobtainable flag can be set by clicking on the three-dot button (ellipsis) to the right of each field and selecting 'Set unobtainable flag'.



If needed, you can remove the unobtainable flag by clicking on the three-dot button again and selecting 'Remove unobtainable flag' if the data which was previously unobtainable becomes available.

#### 5.2.5 Form completed by

At the bottom of each form, you may be required to select who the form has been completed by from the drop-down menu. If you are entering directly from source data onto the database this must be your name. If you are entering a paper form completed by a colleague you can select their name, but they must have signed the paper copy of the form which should be filed in your Investigator Site File.

#### 5.2.6 Form status

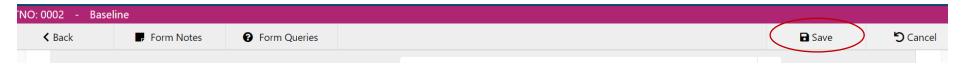
At the bottom of each form, you will be required to select the status of the form from the following list:

- **Complete**: The form is complete, and data has been entered into all applicable fields.
- **Complete with unobtainable missing data**: All known data has been entered and unknown data has been marked as unobtainable (see section 5.2.4).
- Query in progress: A data query is in progress; this can be selected by site users or the Warwick trial team.
- Data entry in progress: Data entry has commenced but is not yet complete, this tells the trial team that you haven't finished entering the form yet.



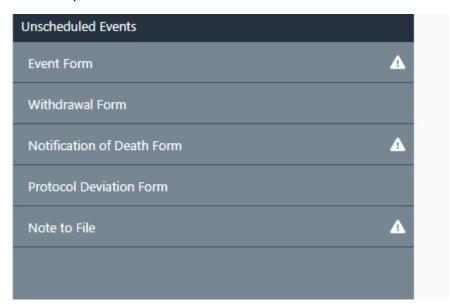
#### 5.2.7 Saving forms

Once you have completed data entry, save the form using the 'Save' button at the top right.



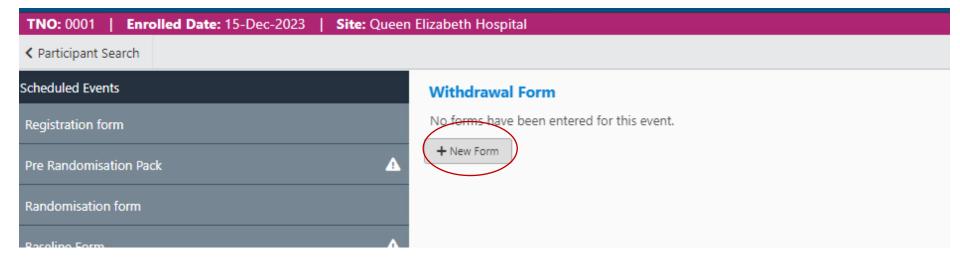
#### 5.2.8 Unscheduled events (forms)

To add a form for an unscheduled event (e.g. participant withdrawal, notification of death, protocol deviation), navigate to the list of unscheduled events in the left-hand menu. Adding a new form will enable you to enter data for these 'events' where needed.



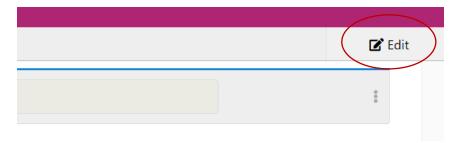
Select the '+New Form' button to commence data entry.





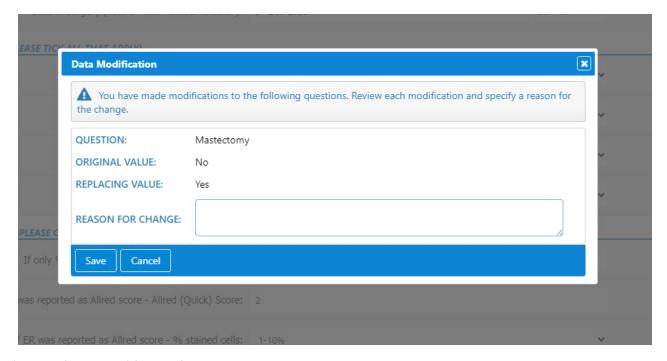
#### 5.2.9 Editing data

If data has been entered and the form saved, but you wish to edit, click on the 'View Form' button for the form you would like to edit. Then click the 'Edit' button in the top right corner.



If you change data that has already been entered, when you click the 'Save' button to save your changes, the following pop-up will appear:





Please enter text in the 'Reason for change' field to fully explain the reason that you are changing the data.

#### 5.3 Form Manager

The form manager tab will show a list of all forms for all participants at your site and show the status of completion. There are several options that you can sort by, for example, you can sort by TNO, form name, date expected etc. To use a more comprehensive set of filters, you can open the filter bar further by selecting the 2 way arrow in the top left corner.



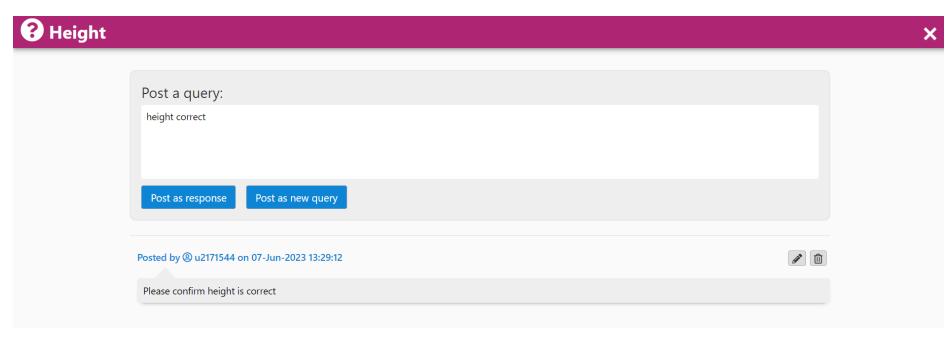


#### 5.4 Query Manager

Queries will be raised by the DEC, Trial Coordinator or Trial Manager at WCTU on each applicable data item on the eCRFs. You will be able to tell if an item has a query as there will be a burgundy coloured '?' next to the data item. To view the query, click on the 3 dots on the right-hand side and select 'Show Queries', this will bring up the query and allow you to post a response to the query.







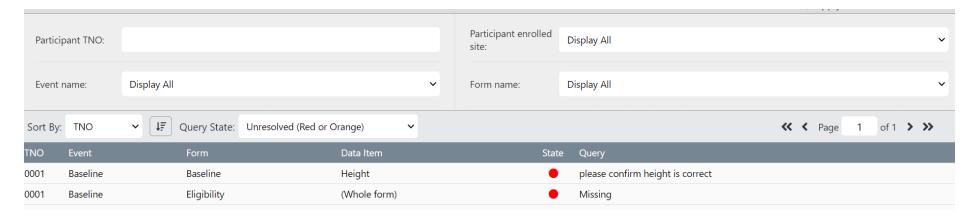
**Remember**, if the data item query requires you to amend a field or enter missing data, please update the form values as well as responding to the queries. You can state in your query response that the form has been updated



You can also see a full list of all queries under the 'Query Manager' tab. Which will show you a list of the TNO, the form, the data item, and the query. They are coloured in a traffic light system:

Red	A query has been added and requires a response from site
Orange	A site has responded to the query and will need WCTU staff to check the response, once we are happy with the response, we will
	resolve the query.
Green	Resolved queries

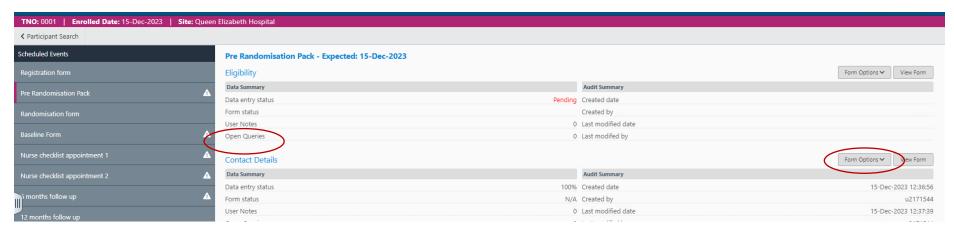
You have the option to filter this page to see only unresolved ('red') queries. You can complete these queries on a regular basis, however once a month the DEC at WCTU will run a report which highlights all unresolved queries raised for each participant at each site. These lists will be sent to sites for review and response. The response to the queries can be managed directly in the database, by replying to the query comment and updating the data field as per the query. If the data item is missing and the data is unable to be obtained, then the field can be marked as unobtainable (see section 5.2.4). This is only to be used if the data will never be able to be obtained.





#### 5.5 Form Queries

Queries can also be raised on an entire form and will be available to view under the 'Query Manager tab'. To view a form query, navigate to the participants record and select the **Form options** drop-down menu next to the eCRF that the query has been raised against. You can then select **View/Add Form Queries** to view the query for this form.



The form query raised by the WCTU trial team will be listed and you can write a response in the **Post a query** field. The response can then be posted using the **Post as response** button as listed in section 5.4.

**Remember**, if the data item query requires you to amend a field or enter missing data, please update the form values as well as responding to the queries. You can state in your query response that the form has been updated



# 6 Data return schedule (Appendix 1)

Approx Week No.		0-1	4-5	16-17			
	Baseline	Randomisation	Consultation 1	Consultation 2	Follow up	Follow up	Follow up
			HT&Me arm	HT&Me arm	6months	12months	18months
1. Registration	х						
2. Eligibility	х						
3. Participant contact details	x						
Baseline Questionnaire	x						
4. Randomisation		X					
5. Baseline		x					
Consultation 1 checklist (HT&Me only)			х				
Consultation 2 checklist (HT&Me only)				x			
6. Follow up					х	x	х
Follow up questionnaire					х	x	x
		UNSCH	EDULED FORMS				
(to be comple	eted if any of th	e events below occ	ur from Randomis	sation to 18 mont	hs post randor	nisation)	
7. Event form							
8. Withdrawal form							
9. Notification of death							
10. Protocol Deviation							

Green = Site responsibility to complete & enter in CDMS

Orange = WCTU responsibility to enter in CDMS

Purple = Site or BCN responsibility to complete & enter in CDMS



# 7 Self-Evident Corrections (SECs). (Appendix 2)

Self-Ev	ident Correction – Pre agr	eed with trial investigators. No action required from site.
Action	by WCTU	Item
1.		Unknown dates If the day is unknown, enter as 15/mmm/yyyy If the day and month are unknown, the field should be left blank
2.	Correct CRF in green pen (where paper CRFs are received)	and marked as unobtainable.  Where this information does not fit with inbuilt validations in the database, or the dummy dates are illogical, this should be marked as unobtainable. Advice should be sought from the TM
3.	Initial and date in green pen. (where paper CRFs	or statistician if there are any concerns.  Decimal places  Where decimal places cannot be entered into the online
4.	Annotate 'SEC' on CRF	application. These should be <b>rounded up/down</b> using standard rounding rules.
	and write out corrected wording next to data item. (where paper CRFs are received)	Spelling mistakes and grammatical errors Obvious spelling mistakes should be corrected. Any spelling mistakes which are unclear / ambiguous should be checked with the TC/TM. Anything we are not able to correct with certainty should be queried with site under the standard
5.	Annotate 'SEC' on specific data item on eCRF (electronic CRFs)	query process.  Tick box logic  If a tick box (yes/no) is blank but the data below this tick box confirms the tick box above should be completed as yes or no. (as applicable) then this can be completed.
6.	If it is a multiple choice question where only 1 answer can be entered, circle the answer which has been entered into the online application. (where paper CRFs are received)	Confirm with TC/TM in first instance.  Database Bugs If the validation on the database will not allow you to enter the data exactly as it is written, check with TM/TC. If a decision is taken to enter data differently than it appears on the CRF, this must be agreed with TM/TC first and documented on the CRF in green pen, dated and initialled.
7.	No query needs to be raised, and no updated CRFs need to be sent to site for their records.	The use of "arrows"  If the site/participant have used "arrows" indicating the information has been recorded in the incorrect boxes, following TC/TM agreement this can be documented and entered in the correct field.
		Reason codes  If a reason has been documented as "other", but the comment clearly fits into a pre-coded category, this can be updated as an SEC.
		Patient Questionnaire: If the date of completion has been left blank:



tion by WCTU	Item
	<ul> <li>fill in the date the booklet was received in green pen.</li> <li>Initial and date the addition.</li> </ul>
	Enter the date the booklet was received as the "date of completion" on the database.
	Patient Questionnaire:
	If only the initials have been entered on the questionnaire booklet, the TNO can be entered via SEC provided there is <a href="sufficient">sufficient</a> evidence to confirm which patient it is relating to.
	This should be confirmed by the TM / TC, and the SEC should
	initial and dated by the TM / TC.
	If only the TNO has been entered on the questionnaire booklet the Initials can be entered via SEC. This can be added by any SWEET staff but should be initial and dated in green pen.
	Patient Questionnaire ONLY:
	If the Time-point has obviously been selected incorrectly, this of
	be corrected via SEC provided there is <u>sufficient</u> evidence to
	confirm which time-point is the correct one.
	This should be confirmed by the TM / TC / Statistician, and th
	SEC should be initial and dated by the TM / TC.
	Patient Questionnaire ONLY:
	If more than one answer is provided per question, enter the "worst" case scenario.
	Circle the answer you have inputted and initial and date in gree pen.
	Patient Questionnaire ONLY:
	If any of the values provided have been completed as a range ( 3-4 days), enter the median/middle value.
	If the values are clearly documented in the wrong units (i.e. patient has recorded days instead of hours / weeks instead of days), please convert the numbers into the correct units.  This should be confirmed by the TM / TC before amending.  Confirm what has been entered onto the online application by documenting the value in green pen at the side of the relevant
	question. Initial and date in green pen.