

sealed envelope™

Red Pill

Version 11

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Chapter 1

Overview

Red Pill is an online application for collecting and managing data on subjects recruited to a clinical trial or other study.

Note that all data shown in this help is fictional and for illustrative purposes only.

This documentation applies to version 11, released 25th March 2016. The version number is shown in the footer of every page when logged into Red Pill.

Chapter 2

Accessing the system

The [Access](#) application is the gateway for Red Pill systems. Systems set up before 2015 have Access URLs that are specific to a client - e.g. *www.sealedenvelope.com/abc_trialsunit*. Systems set-up after 2015 generally have the same common URL: *www.sealedenvelope.com/access*. In either case the URL will be contained in automated emails sent out when a new user account is created.

Users are requested to authenticate themselves by providing their log-in credentials. See the [Access](#) help for more information.

Chapter 3

Getting started

Investigator accounts

If you will be entering CRF data on subjects, an administrator for your trial will create your user account. Administrators are usually staff at the trial coordinating centre. The login details will be sent to your email address. This user account will normally be associated with your site and you will only be able to view and add data for subjects at this site.

When you login, you will normally first arrive at a [summary page](#) showing the trials you have access to. You can also manage your account details and [change your password](#) here. You can get to the summary page at any time using the **Home** link.

Once you access a trial you will be able to see [enrolled subjects](#) at your site and [enter data](#) yourself.

Administrator accounts

When a Red Pill system is set up, the first administrator account is created by Sealed Envelope and the login details are sent to that person's email address. The administrator should log in and create the [trial sites](#), unless the sites have been pre-coded by Sealed Envelope.

You do not need to add all your sites at once - you can come back later and add more sites as needed.

Next you should add some investigator accounts for each site so that data entry can be performed by staff at the sites. You do this through the [Access](#) application.

Finally check the specification page and case report forms and report any discrepancies or errors to Sealed Envelope.

Chapter 4

Subjects

Subject records can be viewed by clicking on the **Subjects** link in the top menu. This shows a list of all subjects entered into the study to date. An amber question mark in the status column of the subject listing indicates that there is an open query for that subject.

The screenshot shows a web interface for viewing subject records. On the left is a table of subjects, and on the right is a sidebar for the selected subject, T5617.

Subjects Table:

Subject ID	Site	Randomisation group	Date randomised	Status
S3365	Royal Albert Hospital	Control	21 Dec 2015 04:50 AEDT	⚠
S5706	UCL	Intervention	23 Dec 2015 18:19 GMT	
T5617	UCL	Intervention	27 Dec 2015 10:24 GMT	?
S5050	Royal Albert Hospital	Intervention	31 Dec 2015 02:41 AEDT	
S4470	Royal Albert Hospital	Intervention	2 Jan 2016 02:44 AEDT	
S4622	Royal Albert Hospital	Control	2 Jan 2016 15:16 AEDT	
S4445	UCL	Control	5 Jan 2016 04:30 GMT	
S8040	UCL	Control	8 Jan 2016 11:23 GMT	
S2309	UCL	Intervention	9 Jan 2016 12:21 GMT	
S6369	Royal Albert Hospital	Intervention	14 Jan 2016 06:32 AEDT	
S6306	Royal Albert Hospital	Intervention	16 Jan 2016 19:49 AEDT	
S7291	Royal Albert Hospital	Intervention	20 Jan 2016 05:55 AEDT	
S5799	UCL	Intervention	19 Jan 2016 22:55 GMT	
S6913	UCL	Intervention	24 Jan 2016 05:45 GMT	
S2949	Royal Albert Hospital	Control	27 Jan 2016 03:02 AEDT	
S6310	Royal Albert Hospital	Control	29 Jan 2016 00:48 AEDT	
T1719	UCL	Control	31 Jan 2016 13:24 GMT	?
S6165	Royal Albert Hospital	Control	3 Feb 2016 04:01 AEDT	
S2478	Royal Albert Hospital	Intervention	8 Feb 2016 02:07 AEDT	
T5511	UCL	Control	8 Feb 2016 04:18 GMT	
S7928	UCL	Intervention	9 Feb 2016 20:13 GMT	
S4983	Royal Albert Hospital	Intervention	12 Feb 2016 21:58 AEDT	

Subject details sidebar (for T5617):

- Subject ID:** T5617
- Site:** 1: UCL, United Kingdom
- Randomisation group:** Intervention
- Date randomised:** 27 Dec 2015 10:24 GMT
- [Mark as randomised in error](#)
- Queries:**
 - [Create a new query](#)
 - Open queries:**
 - [Query ID 2: Forms due](#)
- CRF:**
 - Baseline:** Due: 27 Dec 2015 [Mark as data missing](#)
 - Randomisation:** Add [View](#) [Edit](#)
 - Interviewers questions:** Add [View](#) [Edit](#)
 - Patient Questions:** Add [View](#) [Edit](#)
 - Satisfaction of Care:** Add [View](#) [Edit](#)
 - Concomitant medications:** Add [View](#) [Edit](#)
- 6 Week Follow-up**

Figure 4.1: Viewing an individual subject record

Adding subjects

New subjects may be added to the list at any time by clicking on the **Add a subject** link in the top menu. This opens the study entry form which requests a subject identifier and date of study entry. Note that at least one [site](#) must be created before any subjects can be added.

Some trials may be configured such that subjects are randomised into the trial. If this is the case you can add a subject by clicking the **Randomise** link in the top menu. Check the [specification page](#) to see if this is the case.

Deleting subjects

Subjects may be deleted by administrative users providing the [delete subject](#) setting is enabled. A delete subject option is shown in the 'Subject details' section. The user will be asked to confirm they wish to go ahead. Deleting the subject will also delete all associated forms and queries. This cannot be undone so administrators should think carefully before deleting.

Searching

The search box filters the subject list to match the entered terms. Note that form data is not searched.

Subject details

Clicking on a subject in the list shows subject details from the study entry form, any queries and provides links to [add](#), [view](#) and [edit](#) the forms for that subject grouped by visit.

Schedule

For visits at specific timepoints (for instance 30 days after study entry) the due date is shown. Overdue forms are highlighted in red. If the Withdrawal form has been completed and the subject marked as withdrawn from follow-up, then any visits due after the date of withdrawal will not be shown as overdue. All uncompleted forms in these visits will become inaccessible. Forms that

were completed before the subject was marked as withdrawn will remain accessible and may be viewed and edited in the normal way.

Baseline

Due: 9 Feb 2016 [Mark as data missing](#)

Randomisation		Add	View	Edit
Interviewers questions		Add	View	Edit
Patient Questions		Add	View	Edit
Satisfaction of Care		Add	View	Edit
Concomitant medications		Add	View	Edit

6 Week Follow-up

Due: 22 Mar 2016 (*subject withdrew on 11 Feb 2016*)

Patient Questions		Add	View	Edit
-------------------	--	-----	------	------

Figure 4.2: A follow-up visit due after subject withdrew

Missing forms

Sometimes forms within a visit are not available because, for instance, the subject did not attend a follow-up appointment, the data was not collected or was lost. Forms within visits can be marked as missing using the **Mark as data missing** links. Marking the data as missing in this way causes all uncompleted forms in the visit to become inaccessible and they will not be shown as overdue. Forms that were completed before a visit was marked as missing will remain accessible and may be viewed and edited in the normal way.

12 Week Follow-up

Due: 12 Apr 2016 [*marked as missing*](#)

Interviewers questions	Add	View	Edit
Patient Questions	Add	View	Edit

Figure 4.3: A follow-up visit marked as missing

Subject-entered forms

A link may be displayed to invite the subject to self-complete the forms in a visit if [subject entered forms](#) are enabled.

Form status

A green tick next to a form name indicates that it has been marked as [validated](#). An amber question mark symbol next to a form name indicates that the form has an open query.

Chapter 5

Data entry of forms

Forms can be completed by clicking on the **Add** link shown on the subject details screen next to the name of the form. At the top of every form is a banner reminding the user of which subject they are entering data on. Date fields can be completed manually or by using the date-picker that appears when a user clicks on the calendar icon.

Tip: When entering dates or times manually, just type the numbers – the / or : will be filled in automatically.

Validation

Validation (e.g. range checking) is carried out on the form to reduce errors. There are two types of error messages - those in the form of popup warning messages and those displayed in red on the form. The popup message alerts may warn the user of a value that may be incorrect (such as a high blood pressure) or give some other message. The user must dismiss the alert before proceeding.

Red error messages require either a change to the value entered or providing a justification for overriding the validation check before proceeding.

Some fields are always required - these are displayed with an adjacent red asterisk - whilst others may become required or not applicable depending on the answers to previous questions. Other fields are optional and may be left blank if desired.

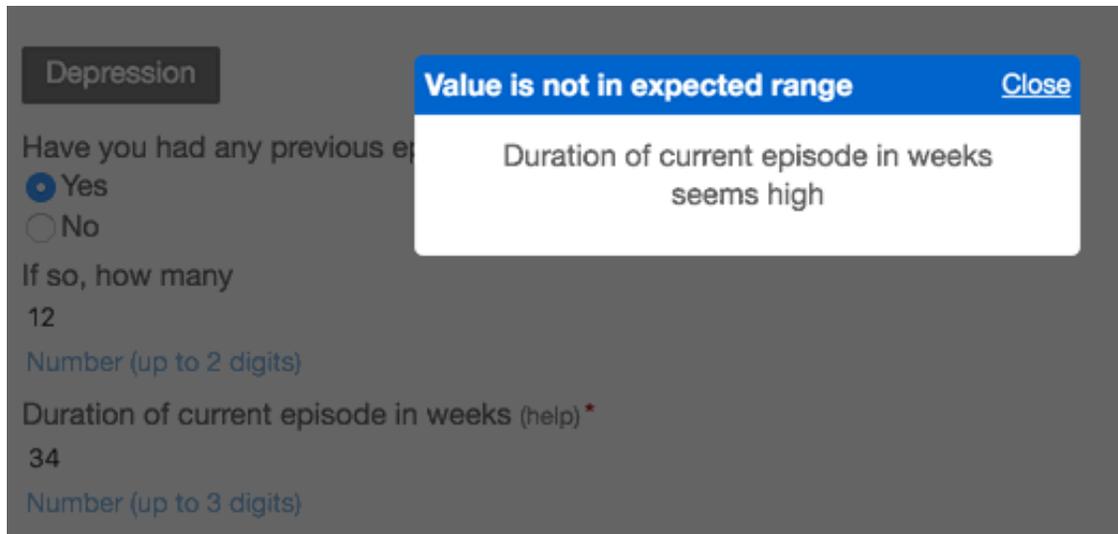


Figure 5.1: Popup warning message

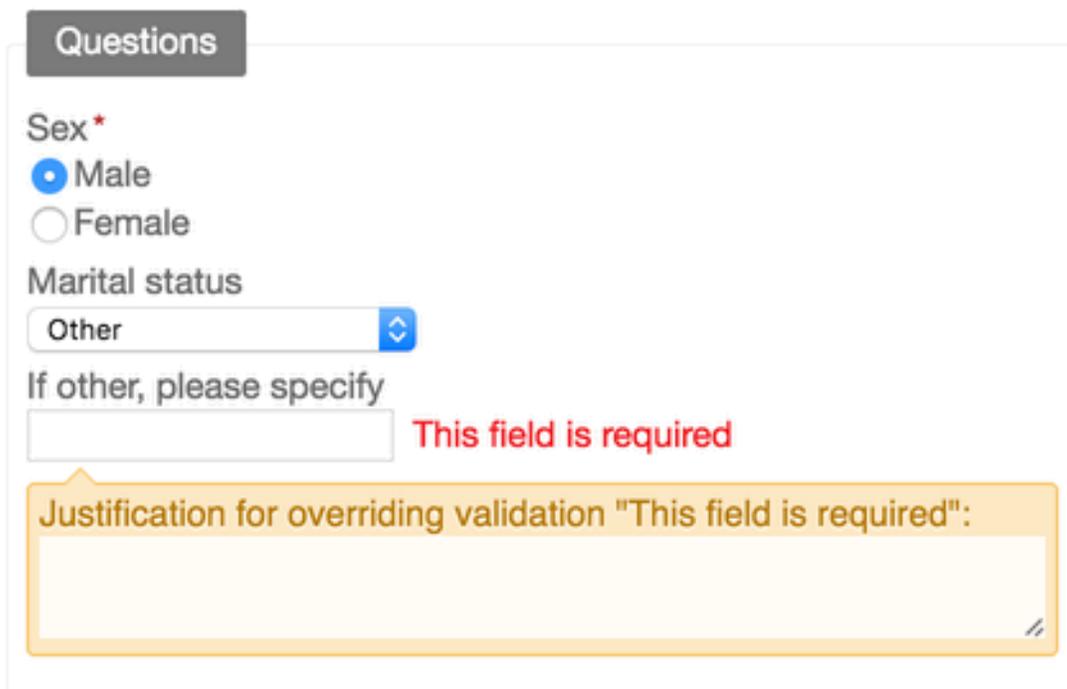


Figure 5.2: Overriding form validation

Repeating sections

Some sections of a form can be added multiple times. This is used, for instance, to record all the medications a subject is taking. A button, such as **Add medication** will be shown on the parent form. Clicking this button goes to a subform which can be added as many times as necessary. The subforms are saved along with the parent form.

Concomitant medications

Record all the medications currently prescribed to this patient

Overall

Is the patient taking any concomitant medications? *

Yes

No

Medication

<p>Medication</p> <p>Name of medication * Calcichew</p> <p>Dose * 2 buccal tab</p> <p>Start date * 02/08/2014 <small>dd/mm/yyyy</small></p> <p>Ongoing? * Yes</p> <p>Stop date - <small>dd/mm/yyyy</small></p> <p><small>Edit Delete</small></p>	<p>Medication</p> <p>Name of medication * Salbutamol</p> <p>Dose * 2 puffs</p> <p>Start date * 15/03/2002 <small>dd/mm/yyyy</small></p> <p>Ongoing? * Yes</p> <p>Stop date - <small>dd/mm/yyyy</small></p> <p><small>Edit Delete</small></p>	<p>Medication</p> <p>Name of medication * Becotide</p> <p>Dose * 2 puffs twice daily</p> <p>Start date * 01/03/2015 <small>dd/mm/yyyy</small></p> <p>Ongoing? * No</p> <p>Stop date 01/04/2015 <small>dd/mm/yyyy</small></p> <p><small>Edit Delete</small></p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Add Medication

Figure 5.3: A form with subforms

Likert scales

Sections that capture Likert scale responses are laid out in a grid. Validation and overriding work in the same way as for other sections.

Satisfaction of Care

Overall care

On a scale of 0-10 (0 being least 10 being most), how satisfied are you with:

	0	1	2	3	4
Your overall care? *	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
The continuity of your care? *	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your supportive care? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Your information needs being met? *					
This field is required.					
Justification for overriding validation "This field is required.":	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Figure 5.4: A Likert scale section

Review step

Once the form has been completed without errors the **Save form** button will usually present the user with a review page. Here the user can visually check that the data entered is correct and, if satisfied, complete the declaration by entering their password to save the form.

This review step may be disabled for some systems, in which case the data is saved immediately.

If there are errors the user may return to the previous page to make changes. Once the declaration has been successfully completed the form is saved to the database.

Overall care

On a scale of 0-10 (0 being least 10 being most), how satisfied are you with:

Your overall care?
2

The continuity of your care?
4

Your supportive care?
3

Your information needs being met?
7

The quality of communication you have received?
6

Notes
-

Investigator's declaration

By entering my password below I declare that the information presented in this form accurately reflects the medical records, including the results of tests and evaluations performed on the dates specified.

Name
Sealed Envelope support (ID 1)

Date
23 Mar 2016

Password

[Back](#)

Figure 5.5: Reviewing a form before saving

Auto-saved drafts

Once data entry is commenced most forms are auto-saved periodically.

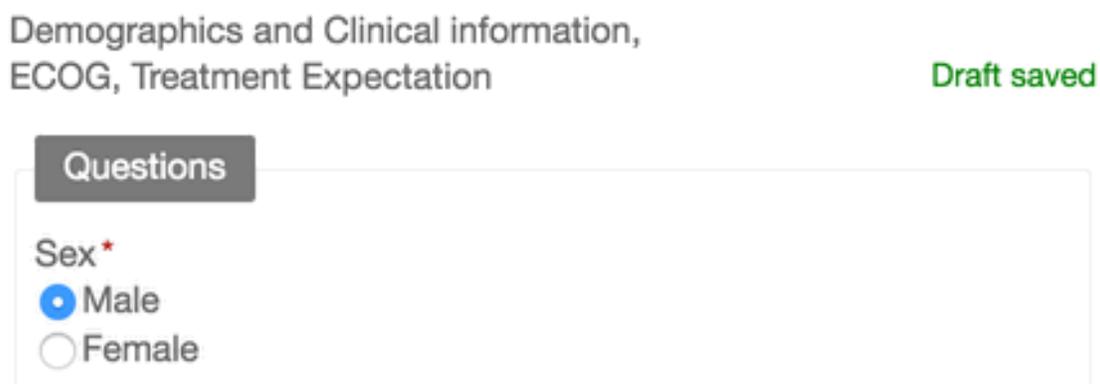
Study entry forms (or the randomisation form when subjects are randomised into the study) are never auto-saved.

Edits to existing forms are not auto-saved.

A message indicating a draft has been saved is shown periodically at the top of the form. This allows the user to navigate away from the form and return to it later without losing data. When returning to a form that has a saved draft, the user is shown a message and given the option to load the draft data or ignore it. If the draft is ignored and data-entry started again the original data will no longer be available.

There is only one draft per form/subject and it is accessible to all users (not just the author of the draft).

If the user navigates away from the page before saving the data, a pop-up message is shown to warn the user that the data has not been permanently saved yet. This is because, even though a draft may exist, it could be lost by the actions of another user.



The screenshot shows a web form titled "Demographics and Clinical information, ECOG, Treatment Expectation". In the top right corner, there is a green message that says "Draft saved". Below the title, there is a section labeled "Questions" with a dark grey background. Underneath, there is a question labeled "Sex*" with two radio button options: "Male" (which is selected) and "Female".

Figure 5.6: Saved draft message

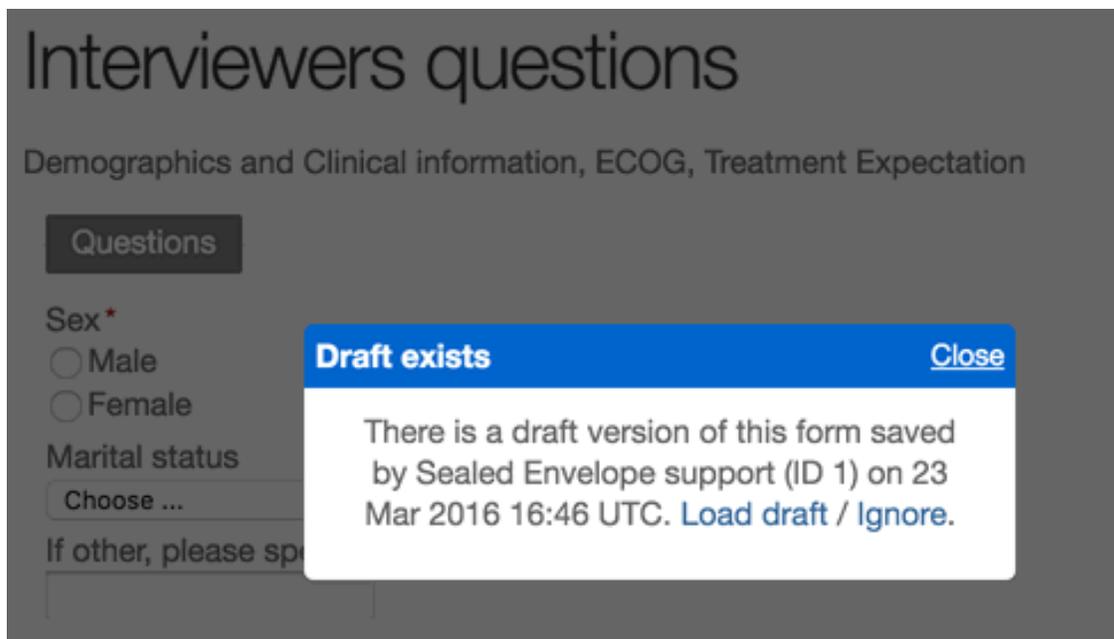


Figure 5.7: Load draft dialogue

Form completion messages

After a form has been saved, the user may be prompted to complete other forms based on the answers they have given. For instance, an event form may be required if a stroke has been recorded. If the form contains any of these rules and they are triggered by the data recorded, the user will see a message asking them to complete the related forms. A query will also be automatically opened to remind the user to complete the required forms.

Repeating forms

Most forms can only be completed once per subject, but some can be entered multiple times. Repeating forms are normally used for events (like SAEs) that can occur multiple times per subject. As repeated forms are entered, they are listed in the subject view with a sequence number.

Interviewers questions

Depression and ECOG

This form was saved.

Based on your answers the following forms are now due: Serious Adverse Events. Please complete these forms if you haven't already done so

Open queries

Query ID 4: Forms due

[Edit this form](#)

This form was created at 23 Mar 2016 16:50 UTC by Sealed Envelope support (ID 1)

Depression

Are you using any treatments for depression at the moment?

No

Treatment/Medication names - list all

-

Did an SAE occur?

Yes

Figure 5.8: Reminder to complete related forms

Other forms

Due: at any time [Mark as data missing](#)

Serious Adverse Events

[Add](#)

Serious Adverse Events (#1)

[View](#)

[Edit](#)

Serious Adverse Events (#2)

[View](#)

[Edit](#)

Withdrawal

[Add](#)

[View](#)

[Edit](#)

Figure 5.9: Repeat entry forms

Chapter 6

Editing forms

Completed forms may only be edited by users with administrator accounts. Forms are edited by clicking on the **Edit** link next to the selected form shown on the patient details screen, or by clicking on the **Edit this form** link shown when viewing a form. The form is displayed in the same way as when adding the form but with some extra fields for recording validation status and reason for editing. The user may change any of the values in the form and they must complete the reason for editing field before reviewing and saving the form.

Validation status

When editing a form, the validation status can be set to 'Validated' provided there are no open queries for the form. Once a form is marked as validated, a green tick appears next to the form name in the patient details. If a query is added to the form after the form has been marked as validated, the validation status will automatically be changed to 'Not validated'. It is up to the trial coordinating team to decide what constitutes a validated form. It may, for instance, be as a result of a formal monitoring visit, or alternatively visual check against the source data by someone who did not enter the data.

Completed forms may not be deleted. However, the validation status may be set to 'Data unusable' to indicate that the whole form should be disregarded.

Any problems

If you checked off any problems, how difficult have these problems made it for you to do your work, take care of things at home, or get along with other people

Somewhat difficult ▾

Notes

Validation status *
Not validated ▾

Validation notes

Reason for edit *
Response to query #23

Save form

Figure 6.1: Editing a form

Chapter 7

Subject entered forms

Subject entered forms are forms which can be self-completed by the subject. See the [specification page](#) to see if this feature is enabled and information on email templates and information shown to subjects when logging in.

Inviting subjects

Subjects must be invited to complete their forms for a particular visit. To do this the subject must be selected from the [subject list](#) and the **Invite subject to complete forms for this visit** link used. The “Subject invitation summary” section shows if the subject has been invited previously. Links to invite subjects will only be displayed when the visit is due. In some cases sending out invitations to complete forms for follow-up visits is automated - see the [specification page](#) for details.

The form to invite the subject requires the subject name and their personal email address. These fields will be pre-populated on second and subsequent invites. An invitation will be sent to the email address provided containing a unique URL that the subject must visit within 30 days to complete the forms. The subject will also require a password that you have agreed with them in advance.

Patient invitation summary

Invited to complete forms for Baseline visit on 12 Sep 2013 14:49 (1st invitation).

Forms

Baseline

[Invite patient to complete forms for this visit](#)

Study entry

Add [View](#) [Edit](#)

Nurse Completed - Patient History from their Notes

Add [View](#) [Edit](#)

Nurse Completed - Clinical measures taken at appointment

[Add](#) [View](#) [Edit](#)

Figure 7.1: Viewing a subject record with invitation to complete baseline forms

Patient invitation

This will invite patient 03002 to complete the following form(s) for the Baseline visit:

- Questions about you
- Questions about living with diabetes
- Questions about your mood over the last week
- Questions about how confident you are at managing your diabetes
- Questions about your diabetes treatment
- Questions about your health
- Questions about your use of NHS services
- Blood tests

Name

Email

Invitation history

Patient 03002 has been invited to complete these forms once.

Invitation sent	Sent to	Number of logins by the patient
12 Sep 2013 14:49	v.edge@myisp.com	0

Figure 7.2: Sending an invitation to complete baseline forms to a subject

What the subject sees

Once a subject goes to the URL in their email invitation and enters the correct password they will see a list of forms to complete. Clicking on the name of the form takes them to that form where they can complete their answers. Unlike [data entry of forms](#) by investigator and administrator accounts, subjects cannot override the validation checks on fields. They also will not see the review step - once they press the save button the form is saved immediately and cannot be viewed or edited by the subject. Entered forms are shown as completed in the list of forms.

Thank you for agreeing to take part in this research study. We would like to thank you for your ability. Once you have completed all of the questions you will be assigned. Information entered will be held in the strictest confidence. We will send you information on how our websites can help people with type 2 diabetes to manage their condition better.

Please complete the following forms:

1.  Questions about you (completed)
2. [Questions about living with diabetes](#)
3. [Questions about your mood over the last week](#)
4. [Questions about how confident you are at managing your diabetes](#)
5. [Questions about your diabetes treatment](#)
6. [Questions about your health](#)
7. [Questions about your use of NHS services](#)
8. [Blood tests](#)

Figure 7.3: List of forms as seen by the subject

The subject can return to complete the forms at any time until the unique link in their email expires. Once all the forms are completed a thank you message is displayed.

Chapter 8

Overdue forms

An overview of overdue forms for all subjects may be viewed by clicking the **Overdue forms** link in the left-hand side bar. Each subject is shown as a row in the table, with a cell for each form in a visit with a time-point.

Note that visits without time-points are not shown

Completed forms are shown in green, overdue forms in red. Forms that will never be completed because the subject withdrew or did not attend a visit are shown in grey. Blue cells indicate that the form is not applicable to that subject - for instance because a form is only collected on subjects with a baseline abnormality. Clicking on a cell displays the name of the associated form. The table may be filtered by entering terms in the search box.

The percentages of forms completed, overdue etc are shown in the summary by site and overall. Note that percentages are calculated excluding forms that are not yet due in the denominator. So although 100% of forms may be shown as done today, this may change in the future as forms become due.

Overdue forms

[View a summary](#)

Detail by subject

Key ■ Form completed ■ Form overdue ■ Not due yet ■ Form missing

Visits **A:** Baseline **B:** 6 Week Follow-up **C:** 12 Week Follow-up

[Download as CSV](#)

Click an entry to display the form and visit name.

Search:

Subject	Site	A			B			C		
T5617	UCL	■	■	■	■	■	■	■	■	
T5511	UCL	■	■	■	■	■	■	■	■	
T1719	UCL	■	■	■	■	■	■	■	■	
S8040	UCL	■	■	■	■	■	■	■	■	
S7928	UCL	■	■	■	■	■	■	■	■	

Figure 8.1: Overdue forms detail

Summary by site

Key ■ Form completed ■ Form overdue ■ Form missing ■ Subject withdrew ■

Number and percentage of forms by status excluding forms not yet due.

Site	■	■	■	■	■
UCL	21 30%	43 61%	4 6%	3 4%	0 0%
Royal Albert Hospital	16 19%	62 73%	4 5%	3 4%	0 0%
Total	37 24%	105 67%	8 5%	6 4%	0 0%

Figure 8.2: Overdue forms summary

Chapter 9

Viewing forms

Forms are viewed by clicking on the **View** link next to the selected form shown on the patient details screen. The most recent version of the form is displayed. If the form has been edited a history bar will be shown, allowing past versions of the form to be displayed. Changes to the form compared to the previous, older, revision are highlighted in yellow when navigating through the history. The exception to this is repeating sections within forms - changes to these are not highlighted.

Patient Questions

[Edit this form](#) This form was created at 23 Mar 2016 12:51 UTC by Sealed Envelope support (ID 1) and last edited at 23 Mar 2016 17:22 UTC by Sealed Envelope support (ID 1)

Form history: < [Previous version](#) | [Next version](#) > Version saved by Sealed Envelope support (ID 1) at 23 Mar 2016 17:22 UTC

Patient Health Questionnaire (PHQ-9)

Over the past 2 weeks, how often have you been bothered by any of the following problems?

Little interest or pleasure in doing things

Not at all

Feeling down, depressed, or hopeless

Not at all

Trouble falling or staying asleep, or sleeping too much

Not at all

Feeling tired or having little energy

More than half the days

Poor appetite or overeating

Not at all

Figure 9.1: Viewing a form that has been edited

Chapter 10

Sites

Trial sites (centres) must be added to the system before adding or randomising a subject, updating a code list, or creating investigator accounts. Sites must also be set to **Recruiting** before subjects can be added.

Administrators can add sites by clicking on the **Sites** link in the top menu, followed by the **Create a new site** link.

Site identifier

The site identifier can be any alphanumeric text and may be used in some trials to create a subject identifier of the form SNNN where S is the site identifier and NNN is a sequential number (either within or across sites). Note that once a subject is added to a site it is no longer possible to change the site identifier.

Timezone

The timezone of a site affects the display of randomisation dates and times generated by the system, such as date/time of randomisation, unblinding and marked in error. It is also used by validation rules such as checking whether a date is in the past. Other date/times, such as timestamps on forms, are usually displayed in GMT timezone (UTC).

Note that sites **cannot be deleted** if they have associated records, such as user accounts or subjects.

Create a new site

[Return to sites](#)

Site

Identifier*

Name*

Country

Timezone*

Recruiting*
 Yes
 No
It will not be possible to add subjects at this site if the site is not recruiting

Notes

Figure 10.1: Adding a new site

Chapter 11

Queries

Queries are intended to be used by administrators to raise questions about the form data for investigators to answer and for investigators to notify administrators of any issues they are aware of in completed forms. Queries can be linked generally to a subject, or more specifically to a particular form for a subject. Queries may only be closed by administrator users. Investigators can create new queries and add messages to existing queries.

Opening queries

A query can be opened either on the subject details panel or when viewing a form, by clicking on the **Create a query** link. The query must be given a title and an initial message. To link the query to a specific form in the CRF, choose the appropriate form from the related form drop-down control. Once it has been created, the query will be shown on the subject details panel and form specific queries will also be shown when viewing the form. In addition, if a form has an open query attached, an amber question mark symbol appears next to the form name in the subject details panel.

Note that creating a query or re-opening a closed query linked to a form will cause the form to be marked as **not validated**.

Create a query

Query

Related form
Baseline - Interviewers questions

Related question
Marital status

Title *

Message *

Re: Marital status

Create query

* required

This query relates to the following form:

Interviewers questions

Demographics and Clinical information, ECOG, Treatment Expectation

Figure 11.1: Creating a new query

Adding messages

Messages may be added to queries by investigators or administrators, forming a conversation thread. Administrators can close a query when the issue has been resolved. Administrators may also re-open a closed query by setting the action to 'Reopen' when adding a new message to it.

When viewing a query, printing the web-page will display an extra box that asks the investigator to write their response, with signature and date. This may be useful for the site's own records or workflow.

Email notifications

When a query is created or updated an email notification is sent out to:

- On creation: all administrators, and all investigators at the same site as the subject the query relates to;
- On update: all users who have participated in the query - that is the user who created the query and any user who has added a message to the query.

The format of the notification email is:

```
From: Sealed Envelope  
Subject: [Trialname] Query updated  
Date: Thu, 22 Oct 2015 15:43:22 +0100  
To: joe@trialsite.org,admin@trialcentre.org
```

A query "Confirm date of birth" has just been updated by Joe Bloggs (ID 8). You can view the query here:

<https://www.sealedenvelope.com/Trialname/query/view/3>

Note, this message was auto-generated on Thu 22 Oct 2015 15:43 Europe/London (GMT +0100).

Listing queries

A list of queries grouped by site is displayed by clicking on the **Queries** link in the left-hand sidebar. The conversation thread for a query can be viewed by clicking on the query in the list. This view

Query ID 1: Matching screening?

Current status: Open

Sealed Envelope support (ID 1) on 22 Mar 2016 19:10 UTC Action: Open

Re: Date of birth different to date given at screening - please check.

Action *

None

Message *

* required

This query relates to the following form:

Randomisation

Figure 11.2: Viewing an open query

[Access](#) | [Logout](#) | [Sealed Envelope support \(ID 1\)](#)

Subject ID T1719 | Date entered study: 31 Jan 2016 | 1: UCL, United Kingdom

Query ID 1: Matching screening?

Current status: Open

Sealed Envelope support (ID 1) on 22 Mar 2016 19:10 Action: Open UTC

Re: Date of birth different to date given at screening - please check.

Action *

None 

Message *

Add message

* required

Please write your response above then sign and date.
Investigator name:
Investigator signature:
Date:

This query relates to the following form:

Randomisation

Figure 11.3: Response box shown when printing a query

also displays links for editing the query or viewing the related subject or form.

Chapter 12

Subject attachments

If subject attachments are enabled for your trial you can upload documents associated with a subject for storage in the subject's CRF.

Note: It is **essential** that you do not upload documents containing personally identifiable subject information.

The [specification page](#) will list details of the maximum file size allowed for an individual attachment and the proportion of the space you have available for attachments that has been used.

Permissions

Every role with access to the subject view may download the attachments. Investigators can upload new attachments, and Administrators can delete existing attachments.

Uploading attachments

The subject record will have an Attachments section with a link to **Upload an attachment**. Following the link takes you to the Attachments page for that subject, and a form where you can specify the file to upload along with an optional description.

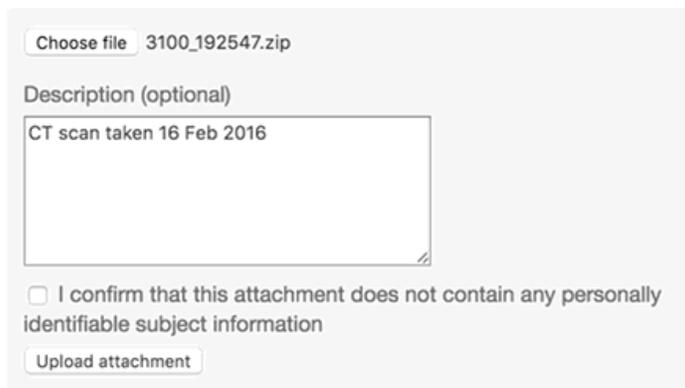
Submitting the form will store the attachment in the subject's CRF.

Attachments

You have used 0% of the 5.0 GB space you have available for storing attachments.
Individual attachments can have a maximum file size of 1.0 MB.

Upload an attachment

Please ensure that you do not upload any attachments containing personally identifiable subject information.



The screenshot shows a web interface for uploading an attachment. At the top, there is a button labeled "Choose file" followed by the filename "3100_192547.zip". Below this is a section titled "Description (optional)" with a text area containing the text "CT scan taken 16 Feb 2016". Underneath the text area is a checkbox with the text "I confirm that this attachment does not contain any personally identifiable subject information". At the bottom of the form is a button labeled "Upload attachment".

Figure 12.1: Uploading an attachment

Viewing and downloading existing attachments

Once attachments have been uploaded for a subject the subject view will display a link to download the attachment.

The Attachments page will contain a table detailing the attachments for that subject.

Deleting an attachment

Administrators can delete existing attachments. To delete an attachment follow the **Delete** link from the table on the Attachments page. This will take you to a confirmation page where clicking the **Delete attachment** button will remove the attachment from the subject's CRF.

Note: Deleted attachments are removed from the filesystem so you cannot undo this action.

Running out of space

Please contact us at support@sealedenvelope.com if you are running out of space for storing attachments.

Subject details

Subject ID	S4470
Site	2: Royal Albert Hospital, Australia
Randomisation group	Intervention
Date randomised	2 Jan 2016 02:44 AEDT

[Mark as randomised in error](#)

Queries

[Create a new query](#)

Attachments

 3100_192547.zip

[Upload or view existing attachment](#)

Figure 12.2: An attachment listed in the subject view

Existing attachments

Attachment	Size	Uploaded by	Uploaded at	Description	Delete
3100_192547.zip	746.6 kB	Sealed Envelope support (ID 1)	24 Mar 2016 15:14 UTC	CT scan taken 16 Feb 2016	Delete

Figure 12.3: Table of attachment details

Delete an attachment

You will not be able to undo this action so please double check the details below before proceeding.

Attachment details

Attachment 3100_192547.zip
Size 746.6 kB
Uploaded by Sealed Envelope support (ID 1)
Uploaded at 24 Mar 2016 15:14 UTC
Description CT scan taken 16 Feb 2016

Delete attachment

Figure 12.4: Deleting an attachment

Chapter 13

Reports

Various reports summarising data-entry and randomisation activity and site status are available by clicking on the **Reports** link in the top menu. Clicking on a report title displays the report compiled from the live database so that it is always up to date. Report data can be downloaded as a plain text comma separated value file by clicking on the **Download as CSV** link. Reports may also be sorted by clicking on a column heading or filtered by entering search terms into the search box.

Completed forms

List of all completed forms and time delay between creation and last edit ("Edit delay"). All dates and times are shown in UTC. Click on a column heading to sort by that column.

[Return to reports](#) [Download as CSV](#)

Search:

Subject	Form	Time completed	Last updated	Edit delay, days	Validation status
T1719	Patient Questions	23 Mar 2016 12:51	23 Mar 2016 17:22	0	Not validated
S5050	Interviewers questions	23 Mar 2016 16:50	23 Mar 2016 16:50	0	Not validated
S5706	Interviewers questions	23 Mar 2016 16:48	23 Mar 2016 16:48	0	Not validated
S3365	Withdrawal	23 Mar 2016 11:48	23 Mar 2016 13:56	0	Not validated
S7008	Withdrawal	23 Mar 2016 12:55	23 Mar 2016 12:56	0	Not validated

Figure 13.1: Viewing a report

Chapter 14

Downloads

CRF data may be downloaded in either CSV or Stata fixed format via the **Download** link in the top menu. The download page shows a list of forms in the CRF and provides links to download the data for each form individually or for all forms (as a zip file).

Data dictionary

A data dictionary can be viewed which shows the fields for each table (there is one table per form). The field name, data type and label are displayed.

CSV format

The data for each form is provided in comma separated value format, which is a plain text file that can be opened in many spreadsheet or Statistical programs. The first row contains a header with the question labels for each column.

Every file contains a subject identifier field so that data stored in different forms can be linked together.

Form data downloads

[View data dictionary](#)

CSV files

These [CSV](#) format datasets can be imported into Excel, Numbers, Google docs, R etc.

Download individual form data:

- Subject
- Randomisation
- Interviewers questions
- Patient Questions
- Satisfaction of Care
- Concomitant medications
 - Medication - part of Concomitant medications
- Patient Questions
- Interviewers questions
- Patient Questions
- Serious Adverse Events
 - Section A - part of Serious Adverse Events
- Withdrawal

[Download all data](#)

Stata files

These datasets are ASCII (text) data in fixed format with a dictionary and can be imported into Stata using the `infile` command:

```
infile using SeWithdrawal_StudyCompletion.dct, clear
```

Figure 14.1: Form data download page

Form data dictionary

[Download form data](#)

Data types are specified as MySQL data types.

Subject

Database table name is **patient**.

Field name	Data type	Additional information
identifier	varchar(255)	Patient identifier
id	int(10) unsigned	
patientId	int(10) unsigned	Subject id
userIdentifier	varchar(255)	User who created row
lastUserIdentifier	varchar(255)	User who last updated row
invNo	int(10)	Telephone randomisation investigator number
dateEnteredStudy	date	Date of study entry yyyy-mm-dd
dateRandomised	datetime	Date & time of randomisation (UTC)
code	enum('Control', 'Intervention')	Randomised group
blockNumber	int(10) unsigned	Block number
blockSize	int(10) unsigned	Block size
blockSequence	int(10) unsigned	Sequence number within block
forced	enum('Control', 'Intervention')	First choice randomised group that was unavailable

Figure 14.2: Form data dictionary

Patient identifier	id	Subject id	User who cre	Timestamp for row creation (UTC)	Sex - Questions	Marital status - Questions	If
T5617	1	1	Sealed Envelop	2016-03-23 11:36:19	Male	Partner - Living with	
T1719	2	2	Sealed Envelop	2016-03-23 12:51:18	Female	Married	

Figure 14.3: Viewing CSV file in spreadsheet

Stata format

The data for each form is provided in Stata fixed format, which is a plain text file format with a dictionary 'header' that describes the format of the rows. Each row contains information from one saved form with a subject identifier field to identify the subject record it belongs to. The data can be easily imported into Stata using the [infile command](#).

For example, to import the data from a baseline form called *Interviewers questions*, the following `infile` command would be used in Stata:

```
infile using InterviewersQuestionsVER1_Baseline.dct, clear
compress
```

where `InterviewersQuestionsVER1_Baseline.dct` is the full filesystem path to the downloaded file. The `compress` command is recommended to reduce the storage space allocated to each variable.

Example

Some interview data has been downloaded in Stata fixed format. There are two rows below the dictionary header because only data on two subjects have been entered so far:

```
dictionary {
  str244 identifier `'"Patient identifier"'
  long id `'"id"'
  long patientId `'"Subject id"'
  str244 userIdentifier `'"User who created row"'
  str244 lastUserIdentifier `'"User who last updated row"'
  str244 created `'"Timestamp for row creation (UTC)"'
  str244 updated `'"Date & time of last update to row (UTC)"'
  str244 question1 `'"Sex - Questions"'
  str244 question2 `'"Marital status - Questions"'
  str244 question3 `'"If other, please specify - Questions"'
  str244 question4 `'"Have you had any previous episodes of depression? - Depression"'
  str244 question5 `'"If so, how many - Depression. Number (up to 2 digits)"'
  str244 question6 `'"Duration of current episode in weeks - Depression. Number (up to 3
  digits)"'
  str244 question7 `'"Are you using any treatments for depression at the moment? -
  Depression"'
  str244 question8 `'"Treatment/Medication Name - Depression"'
}
```

```

str244 reasonForEdit `Reason for editing row'
str244 notes `Notes'
str244 validationOverrides `Justifications for overriding validation'
str244 validationStatus `Validation status'
str244 validationNotes `Validation notes'
str244 _dateEntered `Date of study entry yyyy-mm-dd'
str244 _dateWithdrew `Date of withdrawal from follow-up - Withdrawal.'
str244 _site `Site'
str244 _country `Country'
str244 _visit `Visit'
}
"T5617" 1 1 "Sealed Envelope support (ID 1)" "Sealed Envelope support (ID 1)" "2016-03-23
11:36:19" "2016-03-23 11:36:19" "Male" "Partner - Living with" "" "Yes" "3" "3" "No"
"" "" "" "{}" "Not validated" "" "2015-12-27" "" "1: UCL" "United Kingdom" "Baseline"
"T1719" 2 2 "Sealed Envelope support (ID 1)" "Sealed Envelope support (ID 1)" "2016-03-23
12:51:18" "2016-03-23 12:51:18" "Female" "Married" "" "No" "" "2" "No" "" "" "" "{}" "
Not validated" "" "2016-01-31" "" "1: UCL" "United Kingdom" "Baseline"

```

The data is imported and compressed, and the output from Stata's describe command can be seen in the screenshot. The variable names and variable descriptions have been picked up automatically from the dictionary header.

```

obs:          2
vars:         25
size:        404 (99.9% of memory free)

```

variable name	storage type	display format	value label	variable label
identifier	str5	%9s		Patient identifier
id	byte	%12.0g		id
patientId	byte	%12.0g		Subject id
userIdentifier	str30	%30s		User who created row
lastUserIdent~r	str30	%30s		User who last updated row
created	str19	%19s		Timestamp for row creation (UTC)
updated	str19	%19s		Date & time of last update to row (UTC)
question1	str6	%9s		Sex - Questions
question2	str21	%21s		Marital status - Questions
question3	str1	%9s		If other, please specify - Questions

Figure 14.4: Form data imported into Stata

Category variables are stored as strings so can be tabulated without needing variable labels. Category variables can be [encoded](#) if storage space is an issue.

```
. tab question2
```

Marital status - Questions	Freq.	Percent	Cum.
Married	1	50.00	50.00
Partner - Living with	1	50.00	100.00
Total	2	100.00	

Figure 14.5: Tabulating imported form data

Conversion notes

During conversion into Stata download format, note the following changes that are made to the data:

- All strings are truncated at 244 characters
- Newlines are replaced by spaces
- Double quotes are replaced by single quotes

Stata with .do file format

This format provides a pair of Stata files per form: the raw data and a **.do** file to process the data. The data is imported by running the **.do** file within Stata. There are some differences to the Stata format described above to make analysis more convenient: categorical variables are stored as numeric values with value labels attached, and additional numeric variables are created for date fields.

Chapter 15

Audit trail

Clicking the **Log** link in the top menu bar displays the audit trail. The most recent 100 lines are shown by default; click the 'Show all' button to see the entire log. The audit trail is a plain text file which can be downloaded if required using the **Download** button. The log records all significant events and changes to the data including:

- Data entry and editing of forms
- Creation and adding messages to queries
- Creation and editing of sites
- Randomisations
- Movement of blocks within code lists
- Unblinding
- Downloads from the system such as reports in CSV format, CRF data, code list and the audit trail itself

An example extract from a log is shown below. The items shown in each row of the log are (from left to right):

- IP address of the user who initiated the event
- Name and user ID of the user
- URL
- Server date and time (including GMT offset)
- Notice level - usually this will be "INFO (6)"
- Message

Where applicable, the message contains information on the data before and after the event. Some events might generate several related messages - such as an explanatory note

Audit trail

Show all Download

This log captures all notable events and changes to the data. Only the 100 most recent lines are shown.

```
"Ms Coordinator (ID 2 - Administrator)" "/redpill/jump/crf/add/RandomisationVER1" [2016-03-23T11:34:19+00:00] INFO (6):
Randomisation to Control
"Ms Coordinator (ID 2 - Administrator)" "/redpill/jump/crf/add/RandomisationVER1" [2016-03-23T11:34:19+00:00] INFO (6):
Added form Randomisation for Subject S6310
192.168.33.1 "Sealed Envelope support (ID 1)" "/redpill/jump/markerror/get/22" [2016-03-23T11:35:37+00:00] INFO (6): Row in
crfRandomisationVER1 for: {"id": "22"}, changed From: {"lastUserIdentifier": "Ms Coordinator (ID 2 -
Administrator)", "error": "0", "errorReason": null, "errorDate": null, "updated": "2016-03-23 11:34:12", "reasonForEdit": null},
To: {"lastUserIdentifier": "Sealed Envelope support (ID 1)", "error": true, "errorReason": "\After randomisation but before
treatment patient was found to be ineligible due to past drug use history\" by Sealed Envelope support (ID 1)", "errorDate":
"2016-03-23 11:35:37", "updated": "2016-03-23 11:35:37", "reasonForEdit": "Randomisation marked as in error"}
192.168.33.1 "Sealed Envelope support (ID 1)" "/redpill/jump/markerror/get/22" [2016-03-23T11:35:37+00:00] INFO (6):
Randomisation number 22, code Control was edited
192.168.33.1 "Sealed Envelope support (ID 1)" "/redpill/jump/markerror/get/22" [2016-03-23T11:35:37+00:00] INFO (6):
Randomisation number 22, code Control was marked as in error
192.168.33.1 "Sealed Envelope support (ID 1)" "/redpill/jump/crf/add/InterviewersQuestionsVER1/1" [2016-03-
23T11:36:19+00:00] INFO (6): Row inserted to crfInterviewersQuestionsVER1: {"id": null, "patientId": "1", "userIdentifier":
"Sealed Envelope support (ID 1)", "lastUserIdentifier": "Sealed Envelope support (ID 1)", "created": "2016-03-23
11:36:19", "updated": "2016-03-23 11:36:19", "question1": "Male", "question2": "Partner - Living
with", "question3": null, "question4": "Yes", "question5": "3", "question6": "3", "question7":
"No", "question8": null, "reasonForEdit": null, "notes": null, "validationOverrides": {}, "validationStatus": "Not
validated", "validationNotes": null}
192.168.33.1 "Sealed Envelope support (ID 1)" "/redpill/jump/crf/add/InterviewersQuestionsVER1/1" [2016-03-
23T11:36:19+00:00] INFO (6): Added form Interviewers questions for Subject T5617
```

Figure 15.1: Audit trail

"Edited form Eligibility Criteria Check At Recruitment for Patient SDN01"

plus a change in the data:

```
"Row in crfBaselineEligibilityCriteria for: {"id": "1"}, changed From: {"updated":
"2015-10-22 17:45:47", "reasonForEdit": null ..."
```

Example extract

```
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/crf/reviewadd/
BaselineEligibilityCriteria/1" [2015-10-22T17:45:47+01:00] INFO (6): Row inserted to
crfBaselineEligibilityCriteria: {"id": null, "patientId": "1", "userId": "1",
lastUserId": "1", "created": "2015-10-22 17:45:47", "updated": "2015-10-22
17:45:47", "reasonForEdit": null, "notes": null, "diagnosisOfIpfOrNsip": "No", "rhcMeanPap":
"Yes", "ageRange": "No", "dateWrittenInformedConsentGiven": "10\08\2008",
validationStatus": null, "validationNotes": null}
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/crf/reviewadd/
BaselineEligibilityCriteria/1" [2015-10-22T17:45:47+01:00] INFO (6): Added form
Eligibility Criteria Check At Recruitment for Patient SDN01
```

```
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/crf/reviewedit/  
BaselineEligibilityCriteria/1" [2015-10-22T17:48:40+01:00] INFO (6): Row in  
crfBaselineEligibilityCriteria for: {"id" : "1"}, changed From: {"updated" :  
"2015-10-22 17:45:47","reasonForEdit":null,"unstableUnderlyingLungDisease":null,"  
anySeriousComorbidity":null,"systolicBp":null}, To: {"updated" : "2015-10-22  
17:48:40","reasonForEdit" : "Adding some more answers","unstableUnderlyingLungDisease"  
: "No","anySeriousComorbidity" : "Yes","systolicBp" : "No"}  
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/crf/reviewedit/  
BaselineEligibilityCriteria/1" [2015-10-22T17:48:40+01:00] INFO (6): Edited form  
Eligibility Criteria Check At Recruitment for Patient SDN01  
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/contact/add/Individual" [2015-08-13T10  
:37:45+01:00] INFO (6): Row inserted to contact: {"id":null}  
1.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/contact/add/Individual" [2015-08-13T10  
:37:45+01:00] INFO (6): Row inserted to individual: {"id" : "52","title":null,"  
lastName" : "Kinnear","firstName" : "James","jobTitle" : "Layman","responsibility":  
null,"notes":null,"type" : "individual","qualifications":null,"regNo":null,"cv" :  
"0","cvDate":null,"delegationLogReceived" : "0","delegationLogReceivedDate":null}  
100.2.3.4 "Simon Admin (ID 2)" "/redpill/trialname/contact/add/Individual" [2015-08-13T10  
:37:45+01:00] INFO (6): Added contact James Kinnear
```

Chapter 16

Settings

A settings page is available to administrators that allows some features to be turned on or off to suit the requirements of your trial. Changes to settings are recorded in the [audit trail](#). There are some common settings (see below) and you may also have some trial specific settings.

Review step

The review step is turned on by default and introduces an intermediate step when saving forms. The user is required to review the form data and enter their password to confirm the information is correct before the data is saved to the database. The process is described in the [data entry section](#). Since investigator accounts normally do not have privileges to enter data once it is saved, the review step can help to prevent errors which would then require a [query](#) to resolve.

However, you may prefer to turn this review step off. In this case the form is saved immediately with no intermediate review page. This could be preferable, for instance, if you have data entry staff entering paper CRFs into a Red Pill database.

Note the review step is always enabled for randomisation forms

Settings

These are global settings that affect this application's behaviour. Changes to these settings will be recorded in the [audit trail](#).

Review step

- Off
 On

Enable the review step. If enabled, once a form has been completed without errors the "Save form" button will present the user with a review page. The review page allows the user to visually check that the data entered is correct and, if satisfied, complete the declaration by entering their password to save the form. If the review step is disabled the form is saved immediately without the need to complete the password declaration. Note the review step is **always enabled** for randomisation forms.

Subject delete

- Off
 On

Allow subject records to be deleted by an administrator. Deleting the subject will also delete all associated forms and queries. This cannot be undone so administrators should think carefully before turning on this setting or using this feature. Deleting randomised subjects is **strongly discouraged** because all randomised subjects must be accounted for.

Randomisation

- Off
 On

Enable randomisation. Manual randomisations can still be recorded by administrators when randomisation is disabled.

Save

Figure 16.1: Settings page

Subject delete

The ability to delete subjects is turned off by default. Deleting a subject will also remove all their CRF data, randomisation data and queries. The deleted data is shown in the audit trail but the action cannot be undone. You should consider very carefully whether to turn this feature on and use it. We recommend it is used only in exceptional circumstances.

We **strongly discourage** using the delete feature on randomised subjects because all randomised subjects must be accounted for.

If a subject was randomised in error [mark them as such](#) rather than deleting the record.

Randomisation

Randomisation systems and Red Pill systems with a randomisation form can turn randomisation on or off. When randomisation is disabled, administrator accounts can still record [manual randomisations](#). This may be useful, for instance, if offline randomisations have been carried out due to the Sealed Envelope website being unavailable.

This is a global setting - to stop randomisation at a specific site, edit the [site](#) and set *Recruiting* to **No**.

Chapter 17

Specification

The specification for a Red Pill application can be viewed by clicking the **Specification** link in the top menu. The specification is only accessible to administrator users. It shows the following information where relevant:

- Names of forms that can be completed multiple times per patient.
- The timetable used by the form scheduling feature, if enabled.
- Whether any of the forms can be patient self-completed, and information about custom text shown to the patient in the invitation email and after logging in.
- Details on randomisation method used, treatment groups, allocation ratio, strata, code list length, randomisation limit, data collected at randomisation (where relevant).
- Format of randomisation and unblinding email notifications
- User account privileges.
- Library version numbers.
- Server type (staging/production), review step setting and patient delete setting.

There may also be extra custom information specific to the study.

Chapter 18

Making changes to the specification

Once a Red Pill or randomisation system is in production, changes to the forms or other aspects of the system can only be done through a documented change control process. To initiate this process please download and complete a [Change Request spreadsheet](#) [Excel file].

The Change Request Log will require you to complete the following information:

Change # Sequential change number 1, 2, 3, ...

Visit Name of visit, e.g. *Baseline*

Form Name of form, e.g. *ECG results*

Item / Question The question to be added or changed, eg. *1. ECG - Has a baseline ECG been taken?*

Change type One of:

- New form
- New field
- Change field
- Other change

New or revised forms and fields might be required due to a change in the protocol or a mistake in the original specification. Other changes include changes to validation rules or user permissions etc.

If new field, please record response required When adding new fields, please list what type of response is expected. Please choose from:

- Single line text
- Paragraph text - a text box allowing long text entries
- Encrypted text - a text box whose value will be stored in an encrypted format

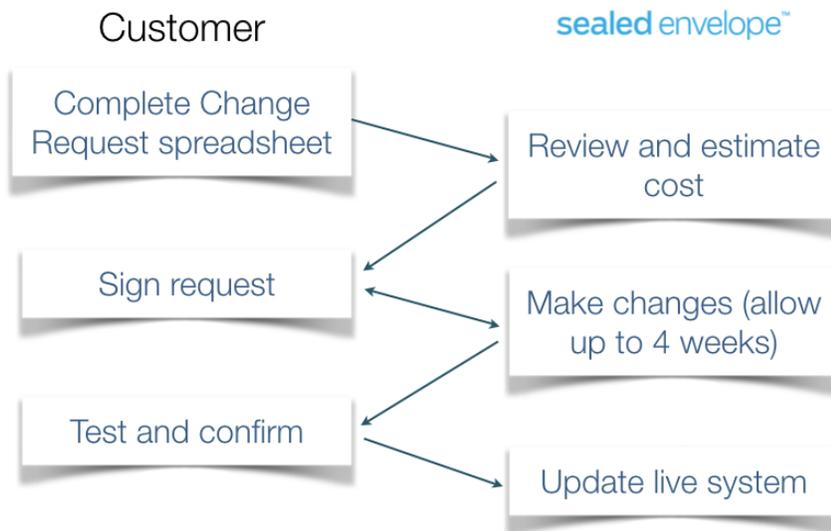


Figure 18.1: Flowchart for change request process

- Number
- Date
- Yes/No
- Category - please list all categories eg, Mild; Moderate; Severe
- Clock time - the time of day in 24hr clock format (e.g. 13:15)
- Elapsed time - a duration in hours and minutes (e.g. 30:50)
- Explanation - explanatory text (e.g. The following questions are about your health)

Change description The actual change that is required in the eCRF. e.g. *The drop down menu is missing a category and should be updated to include new option in drop down menu*

Once you have completed the form, please [send it to Sealed Envelope](#) for review. Sealed Envelope will review your list of changes and provide you with an estimate of how long it will take to configure these changes and provide you with a cost estimate to fulfil your request.