



IMPACT

Incidental Meningioma: Prognostic Analysis Using Patient Comorbidity and MRI-Tests

How to collect data and upload it to REDCap

BNTRC 



Overview

In this data collection guide, we provide an overview of how to navigate REDCap and upload clinical data. To be able to do this, the following needs to be in place:

- ✓ Local audit approval
- ✓ A list of patients who meet the eligibility criteria
- ✓ A logon for REDCap. To obtain this, you will need: 1) to complete the REDCap access request form and email it to the study team at contact@impact.meningioma.com and 2) to complete the radiology e-learning module and email the certificate of completion to contact@impact.meningioma.com

REDCap database

Note this is best opened in Chrome

Log in



Log In

Please log in with your user name and password. If you are having trouble logging in, please contact [REDCap Administrator](#).


A login form with two input fields: "Username:" containing "impacttest1" and "Password:" containing a masked password ".....". Below the fields is a "Log In" button and a link "Forgot your password?". A red rectangular box highlights the input fields, and a red arrow points from the right side of the box towards the text on the right.

Username:	impacttest1
Password:
<input type="button" value="Log In"/> Forgot your password?	

Welcome to REDCap!

REDCap is a secure web platform for building and managing online databases and surveys. REDCap's streamlined process for rapidly creating and designing projects offers a vast array of tools that can be tailored to virtually any data collection strategy.

REDCap provides automated export procedures for seamless data downloads to Excel and common statistical packages (SPSS, SAS, Stata, R), as well as a built-in project calendar, a scheduling module, ad hoc reporting tools, and advanced features, such as branching logic, file uploading, and calculated fields.

Learn more about REDCap by watching a  [brief summary video \(4 min\)](#). If you would like to view other quick video tutorials of REDCap in action and an overview of its features, please see the [Training Resources](#) page.

NOTICE: If you are collecting data for the purposes of human subjects research, review and approval of the project is required by your Institutional Review Board.

If you require assistance or have any questions about REDCap, please contact [REDCap Administrator](#).

REDCap Features

Build online surveys and databases quickly and securely - Create and design your project rapidly using secure web authentication from your browser. No extra software is required.

Fast and flexible - Conception to production-level survey/database in less than one day.

Export data to common data analysis packages - Export your data to Microsoft Excel, PDF, SAS, Stata, R, or SPSS for analysis.

Ad Hoc Reporting - Create custom queries for generating reports to view or download.

Easily manage a contact list of survey respondents or create a simple survey link - Build a list of email contacts, create custom email invitations, and track who responds, or you may also create a single survey link to email out or post on a website.

Scheduling - Utilize a built-in project calendar and scheduling module for organizing your

Insert login details. If you have emailed the REDCap access request form and certificate of completion of the e-learning module but haven't been provided with a login, please contact us at contact@impact.meningioma.com

REDCap platform

1

2

IMPACT

Logged in as **impacttest1** | Log out

My Projects

Project Home

REDCap Messenger

Project status: **Development**

Data Collection

Record Status Dashboard
- View data collection status of all records

Add / Edit Records
- Create new records or edit/view existing ones

Applications

Data Exports, Reports, and Stats

Field Comment Log

Help & Information

Help & FAQ

Video Tutorials

Suggest a New Feature

Contact REDCap administrator

Quick Tasks

Codebook

Export data

The Codebook is a human-readable, read-only version of the project's Data Dictionary and serves as a quick reference for viewing field attributes.

Export your data from REDCap to open or view in Excel or various stats packages.

Project Dashboard

The tables below provide general dashboard information, such as a list of all users with access to this project, general statistics, and upcoming calendar events (if any).

Current Users (5)

User	Expires
impacttest1 (IMPACT Test 1)	never
impacttest2 (IMPACT Test 2)	never
impacttest3 (IMPACT Test 3)	never
janet1h	never

Project Statistics

Records in project	Total: 26 / In group: 14
Most recent activity	03-07-2020 13:53
Space usage for docs	0.37 MB

1. To check status of inserted records

2. To insert or edit existing records

Ignore other database developer functions please

Let's start with function 2

Add / Edit Records

You may view an existing record/response by selecting it from the drop-down lists below. To create a new record/respon: button below.

NOTICE: This project is currently in Development status. **Real data should NOT be entered** until the project has been moved to Production status.

Total records: 26 / In group: 14

Choose an existing Record ID	1 →	-- select record -- ▾	2 →	-- select record -- ▾
	→	Add new record		39-1 39-2

3

Data Search

Choose a field to search (excludes multiple choice fields)	4 →	All fields ▾
Search query Begin typing to search the project data, then click an item in the list to navigate to that record.		<input type="text"/>

1. To edit an existing record

2. Drop down list with existing records in the database. This patient ID, specific to your site, will be generated by REDCap.

Remember to add this to the patient enrolment log

3. To add a new record

4. To search for patients with a particular feature (won't be of much use)

Add a new record selected

The following should appear

1. Patient ID generated by REDCap. Please remember to add this to the patient enrolment log

Record Home Page

1

Record "39-15" is a new Record ID. To create the record and begin entering data for it, click any gray status icon below.

The grid below displays the form-by-form progress of data entered for the currently selected record. You may click on the colored status icons to access that form/event.

2

Legend for status icons:

- Incomplete
- Incomplete (no data saved) ?
- Unverified
- Complete
- Many statuses (all same)
- Many statuses (mixed)

NEW Record ID 39-15

3

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up							

2. Traffic light system for form completion within the database. Green = completed (aim)

3. Data collection instruments. Sections that need to be completed for each patient

4. For patients with 1 meningioma, complete only the forms for Meningioma 1. For patients with 2 meningiomas, complete the forms under Meningioma 1 and Meningioma 2 and so on. Relevant sections will be enabled on completion of section 2 under data collection instruments

Let's start with section 1: Clinical characteristics

NEW Record ID

Data Collection Instrument	Baseline
Baseline Clinical Characteristics (Page/Section 1)	<input type="radio"/>

1. Click on the grey circle

2. Enter clinical data by ticking the appropriate option/s for each variable

3. Change form status to complete if all data are provided. If not leave as incomplete to prompt you later to complete using the traffic light system: incomplete = red and unverified = yellow

4. Save & Exit Form OR Save & Go to Next Form. Please note moving to next record means exiting the current patient data entry forms

Baseline Clinical Characteristics (Page/Section 1)

Adding new Record ID 39-15

Event Name: Baseline

Record ID 39-15

Age (years)

* must provide value

Sex ☐ Male ☐ Female

* must provide value

Ethnicity ☐ White ☐ Mixed / Multiple ethnic groups ☐ Asian / Asian British ☐ Black / African / Caribbean / Black British ☐ Other ethnic group ☐ N/A

* must provide value

Comorbidities ☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment ☐ Previous myocardial infarction ☐ Congestive heart failure ☐ Peripheral vascular disease ☐ Previous stroke/TIA - if hemiplegia present, do not check ☐ Hemip/paraplegia ☐ Diabetes which requires medical treatment ☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment ☐ COPD/Asthma ☐ Renal disease ☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension ☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites ☐ Peptic ulcer disease ☐ Cancer - excluding basal cell carcinoma ☐ Metastatic cancer - if so, do not check cancer ☐ Rheumatic or connective tissue disease ☐ HIV/AIDS ☐ Skin ulcers/cellulitis ☐ Depression ☐ Dementia ☐ On Warfarin

* must provide value

WHO Performance status ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4

* must provide value

Indication for scan ☐ Headache ☐ Cerebrovascular accident ☐ Head injury ☐ Audiovestibular symptoms ☐ Visual symptoms ☐ Psychiatric symptoms ☐ Cognitive symptoms ☐ Loss of consciousness ☐ Other

* must provide value

The meningioma must not be the cause of these symptoms. Other indications include: epilepsy, anoxia, etc.

Form Status

Complete?

Section 2: Number of meningiomas on 1st scan

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Data Collection Instrument	Baseline
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input type="radio"/>

Form status = unverified

Data Collection Instrument	Baseline
Baseline Clinical Characteristics (Page/Section 1)	<input type="radio"/>
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input type="radio"/>

Form status = incomplete

Data Collection Instrument	Baseline
Baseline Clinical Characteristics (Page/Section 1)	<input type="radio"/>
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input type="radio"/>

Save & Go to Next Form clicked in the previous section

Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)

Editing existing Record ID 39-15

Event Name: **Baseline**

Record ID 39-15

Initial Scan Date Today D-M-Y
* must provide value

How many meningiomas? ☐ Single ☐ Multiple
* must provide value [reset](#)

Form Status

Complete? Incomplete [reset](#)

[Save & Exit Form](#) [Save & Stay](#) [-- Cancel --](#)

Can alternatively click on the grey circle for section 2 if you went with Save and Exit Form

How many meningiomas?

A single meningioma

Multiple meningiomas

Editing existing Record ID 39-15

Event Name: **Baseline**

Record ID 39-15

Initial Scan Date 1 → 22-03-2009 Today D-M-Y
* must provide value

How many meningiomas? 2a → ☒ Single ☐ Multiple
* must provide value reset

Form Status

Complete? 3 → Complete

4 → Save & Exit Form Save & Stay
-- Cancel --
Save & Stay
Save & Exit Record
Save & Go To Next Record

Editing existing Record ID 39-15

Event Name: **Baseline**

Record ID 39-15

Initial Scan Date 1 → 22-03-2009 Today D-M-Y
* must provide value

How many meningiomas? 2a → ☐ Single ☒ Multiple
* must provide value reset

Number of meningiomas present 2b → ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6
* must provide value reset

Form Status

Complete? 3 → Complete

4 → Save & Exit Form Save & Stay
-- Cancel --
Save & Stay
Save & Exit Record
Save & Go To Next Record

1. Date of scan

2a. Single or multiple meningioma

2b. Number of meningiomas if multiple. Only enabled if you select multiple for 2a

3. Change form status to complete (green) if all data provided. If not leave as incomplete to prompt you later to complete using the traffic light system: incomplete = red and unverified = yellow

4. Click Save & Exit Form on completion. Note that Save & Go to Next Form isn't an option. This is due to the multiplicity of forms available for patients with multiple meningiomas after this step.

Now you should have this

Record ID 39-15
Test Site 1

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>						
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>						
Baseline Imaging Characteristics (Page/Section 3)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Management Decision (Page/Section 4)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Follow-Up		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

↑
If you selected a single meningioma, only these forms will be active

→
The remainder of the forms will become activated dependent on the number of meningiomas selected. For example, if you choose 2 meningiomas in the previous section, then forms under Meningioma 2 will become active and so on

If you select an inactive form, you will get the following message

Event Name: Meningioma 2

Record ID39-15

This form has been disabled as data only needs to be entered for 1 meningioma. Please click on Cancel and open the first instance of this form.

Form Status

Complete?

H

Incomplete

Save & Exit Form

Save & Go To Next Form

-- Cancel --

Let's add the radiological features (section 3)

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input type="radio"/>

1. Click on the grey circle



2. Enter radiological data by ticking the appropriate option/s for each variable. Note that selecting certain options will activate further variables

3. Change form status to complete if all data are provided. If not leave as incomplete to prompt you later to complete using the traffic light system: incomplete = red and unverified = yellow

4. Save & Exit Form OR Save & Go to Next Form. Please note moving to next record means exiting the current patient data entry forms

Baseline Imaging Characteristics (Page/Section 3)

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID 39-15

Meningioma signal intensity on T2

☒ Hypointense
☐ Hyperintense
☐ Isointense
☐ N/A

In relation to the contralateral gray matter: If only baseline CT available, N/A

Meningioma signal intensity on FLAIR

☒ Hypointense
☐ Hyperintense
☐ Isointense
☐ N/A

In relation to the contralateral gray matter: If only baseline CT available, N/A

Peritumoural signal intensity on T2

☒ 0-9%
☐ 6-33%
☐ 34-66%
☐ 67-100%
☐ N/A

In relation to tumour volume: If only baseline CT available, N/A

Peritumoural signal intensity on FLAIR

☒ 0-9%
☐ 6-33%
☐ 34-66%
☐ 67-100%
☐ N/A

In relation to tumour volume: If only baseline CT available, N/A

Venous sinus nearby

☒ Yes
☐ No

Select if within 1.0 mm, in direct contact or invading one of: superior sagittal sinus (SSS), sigmoid sinus (SS), transverse sinus (TS), occipital sinus (OS) and the confluence of sinuses (CS)

In contact with critical neurovascular structures?

☒ Yes
☐ No

Major axis (mm)

In mm to 1 dp. Measure on axial T1/CT + GAD

Minor axis (mm)

In mm to 1 dp. Perpendicular to the major axis on axial T1/CT + GAD

Cor/sag major axis

In mm to 1 dp. Maximum height

Appendix 2 - ICOM Classification

10.2. Appendix 2. ICOM classification of meningioma location

ICOM classification system of meningioma locations			
Main category	Subcategories		
Convexity	Anterior ¹	Posterior ¹	
Parasagittal	Anterior ¹	Posterior ¹	Polar-temporal
Parafalcine	Anterior ¹	Posterior ¹	Falcine-falcine
Subependymal	Anterior ¹	Posterior ¹	
Anterior midline	Craniiform plus or olfactory groove ²	Planum ³	Subcalvarium and olfactory groove
Posterior fossa - midline	Clivus	Anterior to the clivus	Anterior to the clivus
Posterior fossa - lateral & posterior	Posterior	Squamous	Posterior to the squamous
Intraventricular	Supratentorial	Infratentorial	
Pineal region ⁴			

¹ The main attachment is located anterior or posterior, respectively, to the coronal suture
² Arising between the crista galli and the foramen sphenoidale
³ Arising between the foramen sphenoidale and the foramen sphenoidale
⁴ The main attachment is located anterior or posterior, respectively, to the hypophyseal canal
⁵ No obvious tentorial attachment

Location

☒ Convexity
☐ Parasagittal
☐ Parafalcine
☐ Sphenoid wing
☐ Anterior midline
☐ Post fossa-midline
☐ Post fossa-lateral & posterior
☒ Tentorial
☐ Intraventricular
☐ Pineal region

As per ICOM classification (appendix 2)

Location Subcategory - Tentorial

☒ Supratentorial
☐ Infratentorial

Side

☒ Right
☐ Left
☐ Midline

Form Status

Complete?

☒ Incomplete

3

4

Save & Exit Form Save & Go To Next Form

Cancel

Section 4: Management decision

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Form status = unverified

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input checked="" type="radio"/>
Management Decision (Page/Section 4)		<input type="radio"/>

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input type="radio"/>
Management Decision (Page/Section 4)		<input type="radio"/>

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input type="radio"/>
Management Decision (Page/Section 4)		<input type="radio"/>

Save & Go to Next Form clicked in the previous section

Can alternatively click on the grey circle for section 4 if you went with Save and Exit Form

Management Decision (Page/Section 4)

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID 39-15

Decision
* must provide value

☐ Active Monitoring
☐ Surgery
☐ SRS
☐ FRT
☐ Discharge from outpatient care
☐ Lost to follow-up
☐ Dead

You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this point in time, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene.

Form Status

Complete? Incomplete

Save & Exit Form Save & Go To Next Form

-- Cancel --

Let's add the management and follow up details now

Will start with the options: surgery, SRS, fSRT and dead in Section 4. The reason being is that these options lead to one section each, which upon completion, data entry for that patient ends.

Note that for patients who undergo an intervention, die, get discharged from outpatient care or get lost to follow-up after a period of active monitoring, active monitoring should be selected as the management decision in section 4

Management Decision (Page/Section 4)

Editing existing Record ID **39-15**

Event Name: **Meningioma 1**

Record ID 39-15

Decision
* must provide value

1 →

☐ Active Monitoring
☐ Surgery
☐ SRS
☐ fRT
☐ Discharge from outpatient care
☐ Lost to follow-up
☐ Dead

reset

You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this point in time, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene.

Form Status

Complete? 2 → Incomplete

3 →

Save & Exit Form Save & Go To Next Form

-- Cancel --

1. Choose the relevant option

2. Change form status to complete

3. Save & Exit Form OR Save & Go to Next Form.

Subsequent sections: Surgery, SRS, fSRT and Dead

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Form status = unverified

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		

Save & Go to Next Form clicked in the previous section

Next slide

Can alternatively click on the grey circle for section 4 if you went with Save and Exit Form

Forms will differ based on option chose in section 4

Surgery

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID: 39-15

Surgery (Page/Section 6)

Surgery date: [Date Picker] [Today] [D-W-Y]

Indication for intervention: ☐ Clinical-radiological, ☐ Clinical, ☐ Radiological, ☐ Patient preference

Preoperative WHO PS: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4

Preoperative comorbidities: ☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment, ☐ Previous myocardial infarction, ☐ Congestive heart failure, ☐ Peripheral vascular disease, ☐ Previous stroke/TIA - if hemiplegia present, do not check, ☐ Diabetes, ☐ Diabetes which requires medical treatment, ☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment, ☐ COPD/Asthma, ☐ Renal disease, ☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension, ☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites, ☐ Peptic ulcer disease, ☐ Cancer - excluding basal cell carcinoma, ☐ Malignant cancer - if so, do not check cancer, ☐ Rheumatic or connective tissue disease, ☐ HIV/AIDS, ☐ Skin ulcers/tellulitis, ☐ Depression, ☐ Dementia, ☐ On Warfarin

Simpson grade: ☐ 0-1, ☐ 2, ☐ 3, ☐ 4, ☐ 5

WHO grade at the time of surgery: ☐ 0, ☐ 1, ☐ 2

Microscopic brain invasion: ☐ Yes, ☐ No, ☐ Brain tissue absent, ☐ Check, ☐ As described in the pathology report

Postoperative surgical complications: ☐ Yes, ☐ No

Postoperative medical complications: ☐ Yes, ☐ No

Postoperative WHO PS: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4, ☐ 5 (dead)

Form Status: Complete? ☐ Incomplete

Save & Exit Form, Save & Stay, Cancel

SRS

Follow-Up

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID: 39-15

SRS (Page/Section 7)

SRS Date: [Date Picker] [Today] [D-W-Y]

Indication for intervention: ☐ Clinical-radiological, ☐ Clinical, ☐ Radiological, ☐ Patient preference

Pre-radiation WHO PS: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4

Pre-radiation comorbidity: ☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment, ☐ Previous myocardial infarction, ☐ Congestive heart failure, ☐ Peripheral vascular disease, ☐ Previous stroke/TIA - if hemiplegia present, do not check, ☐ Diabetes, ☐ Diabetes which requires medical treatment, ☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment, ☐ COPD/Asthma, ☐ Renal disease, ☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension, ☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites, ☐ Peptic ulcer disease, ☐ Cancer - excluding basal cell carcinoma, ☐ Malignant cancer - if so, do not check cancer, ☐ Rheumatic or connective tissue disease, ☐ HIV/AIDS, ☐ Skin ulcers/tellulitis, ☐ Depression, ☐ Dementia, ☐ On Warfarin

Dose: [Text Input]

Early CTCAE toxicity (≤ 3 months): ☐ Yes, ☐ No

Late CTCAE toxicity: ☐ Yes, ☐ No

Meningioma progression/regrowth: ☐ Yes, ☐ No

Scan date (at progression or last follow-up date if no progression): [Date Picker] [Today] [D-W-Y]

WHO PS at time of progression/last follow-up: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4, ☐ 5 (dead)

Form Status: Complete? ☐ Incomplete

Save & Exit Form, Save & Stay, Cancel

fsRT

Follow-Up

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID: 39-15

RT (Page/Section 8)

RT Start Date: [Date Picker] [Today] [D-W-Y]

RT End Date: [Date Picker] [Today] [D-W-Y]

Indication for intervention: ☐ Clinical-radiological, ☐ Clinical, ☐ Radiological, ☐ Patient preference

Pre-radiation WHO PS: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4

Pre-radiation comorbidity: ☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment, ☐ Previous myocardial infarction, ☐ Congestive heart failure, ☐ Peripheral vascular disease, ☐ Previous stroke/TIA - if hemiplegia present, do not check, ☐ Diabetes, ☐ Diabetes which requires medical treatment, ☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment, ☐ COPD/Asthma, ☐ Renal disease, ☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension, ☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites, ☐ Peptic ulcer disease, ☐ Cancer - excluding basal cell carcinoma, ☐ Malignant cancer - if so, do not check cancer, ☐ Rheumatic or connective tissue disease, ☐ HIV/AIDS, ☐ Skin ulcers/tellulitis, ☐ Depression, ☐ Dementia, ☐ On Warfarin

Number of fractions: [Text Input]

Fractionated Dose: [Text Input]

Total dose: [Text Input]

Early CTCAE toxicity (≤ 3 months): ☐ Yes, ☐ No

Late CTCAE toxicity: ☐ Yes, ☐ No

Meningioma progression/regrowth: ☐ Yes, ☐ No

Scan date (at progression or last follow-up date if no progression): [Date Picker] [Today] [D-W-Y]

WHO PS at time of progression/last follow-up: ☐ 0, ☐ 1, ☐ 2, ☐ 3, ☐ 4, ☐ 5 (dead)

Form Status: Complete? ☐ Incomplete

Save & Exit Form, Save & Stay, Cancel

Dead

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID: 39-15

Mortality (Page/Section 10)

Date of death: [Date Picker] [Today] [D-W-Y]

Cause of death: ☐ Meningioma-related, ☐ Unrelated

Form Status: Complete? ☐ Incomplete

Save & Exit Form, Save & Stay, Cancel






















Enter data, change form status to complete and click Save & Exit form

Data entry is now complete

If all circles are green, happy days!

Record ID 39-15


Test Site 1

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up		 					

Repeating Instruments

Follow-Up
Meningioma 1

1



+ Add new

Note if you try to enter further follow-up data using the + sign or + Add new, you'll get the following message



Editing existing Record ID 39-15 (Instance #2)

Event Name: Meningioma 1

Record ID 39-15

No further data needs to be entered for this subject. please click on Cancel and exit data entry for this subject

Form Status

Complete?   Incomplete

Save & Exit Form

Save & Stay

-- Cancel --

Patients subject to active monitoring

Let's return to section 4

Management Decision (Page/Section 4)

Editing existing Record ID 39-15

Event Name: **Meningioma 1**

Record ID 39-15

1 → ☐ Active Monitoring
☐ Surgery
☐ SRS
☐ fRT
☐ Discharge from outpatient care
☐ Lost to follow-up
☐ Dead

Decision
* must provide value

You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this point in time, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene. reset

Form Status

Complete? 2 →

3 →

1. Choose the active monitoring option

2. Change form status to complete

3. Save & Exit Form OR
Save & Go to Next Form.

Add active monitoring data

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Form status = unverified

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		



Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		



Save & Go to Next Form clicked in the previous section



Next slide



Can alternatively click on the grey circle for section 4 if you went with Save and Exit Form



Active Monitoring (Page/Section 5)



Scan date * must provide value **1**   Today D-M-Y



Peritumoural signal intensity on T2 * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on T2/FLAIR MRI. If only CT or T1 MRI available, N/A



Peritumoural signal intensity on FLAIR * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on FLAIR MRI. If only CT or T1 MRI available, N/A



Venous sinus nearby * must provide value   ☐ Yes ☐ No reset
Select if within 10 mm, in direct contact or invading one of: superior sagittal sinus (SSS), sigmoid sinus (SS), transverse sinus (TS), cavernous sinus (CS) and the confluence of sinuses (CoS)

Major axis (mm) * must provide value  
In mm to 1 dp. Measure on axial T1/CT + GAD if available





Minor axis (mm) * must provide value  
In mm to 1 dp. Perpendicular to the major axis on axial T1/CT + GAD if available



Cor/sag major axis * must provide value  
In mm to 1dp. Maximum height

Any new meningioma-related symptoms? * must provide value   ☐ Yes ☐ No reset

Outcome * must provide value   ☐ Resume follow-up (active monitoring) ☐ Surgery ☐ SRS ☐ fRT ☐ Discharge ☐ Lost to follow-up ☐ Dead reset
You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this interval scan, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene. If the option you choose is set to take place in the future, choose the option, save the data entered and exit the form with no further information required

Form Status

Complete? **3**    Incomplete 

4  Save & Exit Form Save & Stay  -- Cancel --

Save & Add New Instance
 Save & Exit Record
 Save & Go To Next Record

1. Enter the date of first interval scan

2. Select resume follow-up as the patient remains under follow-up. Further examples coming up will demonstrate how to use the remaining outcomes

3. Change form status to complete if all data provided

4. Click Save & Exit Form or Save & Add New Instance

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		+
Upload Images		

Repeating Instruments

Follow-Up
Meningioma 1

1	
---	--

+ Add new

Form status = unverified

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		+

Repeating Instruments

Follow-Up
Meningioma 1

1	
---	--

+ Add new

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		+

Repeating Instruments

Follow-Up
Meningioma 1

1	
---	--

+ Add new

Save & Add New Instance clicked in the previous section



Next slide



Can alternatively click on
+ sign or + Add new if
you went with Save and
Exit Form



We're going to go with 3
different scenarios from
this point



Scenario 1: Patient's last follow-up appointment data are entered, and they remain under follow-up



Active Monitoring (Page/Section 5)



Scan date * must provide value **1**   Today D-M-Y



Peritumoural signal intensity on T2 * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on T2/FLAIR MRI. If only CT or T1 MRI available, N/A



Peritumoural signal intensity on FLAIR * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on FLAIR MRI. If only CT or T1 MRI available, N/A



Venous sinus nearby * must provide value   ☐ Yes ☐ No reset
Select if within 10 mm, in direct contact or invading one of: superior sagittal sinus (SSS), sigmoid sinus (SS), transverse sinus (TS), cavernous sinus (CS) and the confluence of sinuses (CoS)

Major axis (mm) * must provide value   reset
In mm to 1 dp. Measure on axial T1/CT + GAD if available




Minor axis (mm) * must provide value   reset
In mm to 1 dp. Perpendicular to the major axis on axial T1/CT + GAD if available


Cor/sag major axis * must provide value   reset
In mm to 1dp. Maximum height

Any new meningioma-related symptoms? * must provide value   ☐ Yes ☐ No reset

Outcome * must provide value   ☐ Resume follow-up (active monitoring) ☐ Surgery ☐ SRS ☐ fRT ☐ Discharge ☐ Lost to follow-up ☐ Dead reset
You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this interval scan, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene. If the option you choose is set to take place in the future, choose the option, save the data entered and exit the form with no further information required

Form Status

Complete? **3**    Incomplete reset

4  Save & Exit Form Save & Stay reset

-- Cancel -- ✗ ✗

Save & Stay
Save & Add New Instance
Save & Exit Record
Save & Go To Next Record

1. Enter the date of second interval scan






















2. Select outcome as resume follow-up

3. Change form status to complete if all data provided

4. Click Save & Exit Form. Do not click Save & Add New Instance as there are not further active monitoring data to be entered



Data entry is now complete

If all circles are green. Happy days!

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up		 					

Repeating Instruments

Follow-Up
Meningioma 1

1	
2	
<div>+ Add new</div>	

Note if you try to enter further active monitoring data, using the + sign or + Add new, you'll be able to and you won't get a warning message. If you click any of these by mistake, make sure you please cancel the resultant form

Scenario 2: Patient was subject to an intervention after 2nd interval scan

Active Monitoring (Page/Section 5)

Scan date * must provide value **1** → Today D-M-Y

Peritumoural signal intensity on T2 * must provide value ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on T2/FLAIR MRI. If only CT or T1 MRI available, N/A

Peritumoural signal intensity on FLAIR * must provide value ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on FLAIR MRI. If only CT or T1 MRI available, N/A

Venous sinus nearby * must provide value ☐ Yes ☐ No reset
Select if within 10 mm, in direct contact or invading one of: superior sagittal sinus (SSS), sigmoid sinus (SS), transverse sinus (TS), cavernous sinus (CS) and the confluence of sinuses (CoS)

Major axis (mm) * must provide value reset
In mm to 1 dp. Measure on axial T1/CT + GAD if available

Minor axis (mm) * must provide value reset
In mm to 1 dp. Perpendicular to the major axis on axial T1/CT + GAD if available

Cor/sag major axis * must provide value reset
In mm to 1dp. Maximum height

Any new meningioma-related symptoms? * must provide value ☐ Yes ☐ No reset

Outcome * must provide value **2** → ☐ Resume follow-up (active monitoring) ☐ Surgery ☐ SRS ☐ fRT ☐ Discharge ☐ Lost to follow-up ☐ Dead reset
You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this interval scan, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene. If the option you choose is set to take place in the future, choose the option, save the data entered and exit the form with no further information required

Form Status

Complete? **3** → reset

4 → Save & Exit Form Save & Stay reset

-- Cancel -- Save & Add New Instance
Save & Exit Record
Save & Go To Next Record

1. Enter the date of second interval scan

2. Select outcome as surgery, SRS or fSRT

3. Change form status to complete if all data provided

4. Click Save & Exit Form or Save & Add New Instance

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		+

Repeating Instruments

Follow-Up Meningioma 1	
1	
+ Add new	

Form status = unverified

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		

Repeating Instruments

Follow-Up Meningioma 1	
1	
+ Add new	

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)		
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)		
Baseline Imaging Characteristics (Page/Section 3)		
Management Decision (Page/Section 4)		
Follow-Up		+

Repeating Instruments

Follow-Up Meningioma 1	
1	
+ Add new	

Save & Add New Instance clicked section

Next slide

Can alternatively click on
+ sign or + Add new if
you went with Save and
Exit Form

Forms will differ based on intervention choice

Surgery

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID 39-15

Surgery (Page/Section 6)

Surgery date Today D-H-Y

Indication for Intervention

☐ Clinical-radiological

☐ Clinical

☐ Radiological

☐ Patient preference

Preoperative WHO PS

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

Preoperative comorbidities

☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment

☐ Previous myocardial infarction

☐ Congestive heart failure

☐ Peripheral vascular disease

☐ Previous stroke/TIA - if hemiplegia present, do not check

☐ Hemiparesis/paraplegia

☐ Diabetes which requires medical treatment

☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment

☐ COPD/Asplenia

☐ Renal disease

☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension

☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites

☐ Peptic ulcer disease

☐ Cancer - excluding basal cell carcinoma

☐ Metastatic cancer - if so, do not check cancer

☐ Rheumatic or connective tissue disease

☐ HIV/AIDS

☐ Skin ulcers/cellulitis

☐ Depression

☐ Dementia

☐ On Warfarin

Simpson grade

☐ 1 - GTR

☐ 2 - GTR

☐ 3 - GTR

☐ 4 - STR

☐ 5 - STR

WHO grade at the time of surgery

☐ 1

☐ 2

☐ 3

Microscopic brain invasion

☐ Yes

☐ No

☐ Brain tissue absent

☐ N/A

Postoperative surgical complications

☐ Yes

☐ No

Postoperative medical complications

☐ Yes

☐ No

Postoperative WHO PS

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5 (dead)

Form Status

Complete? Incomplete

Save & Exit Form Save & Stay

Cancel

SRS

Follow-Up

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID 39-15

SRS (Page/Section 7)

SRS Date Today D-H-Y

Indication for Intervention

☐ Clinical-radiological

☐ Clinical

☐ Radiological

☐ Patient preference

Pre-radiation WHO PS

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

Pre-radiation comorbidity

☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment

☐ Previous myocardial infarction

☐ Congestive heart failure

☐ Peripheral vascular disease

☐ Previous stroke/TIA - if hemiplegia present, do not check

☐ Hemiparesis/paraplegia

☐ Diabetes which requires medical treatment

☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment

☐ COPD/Asplenia

☐ Renal disease

☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension

☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites

☐ Peptic ulcer disease

☐ Cancer - excluding basal cell carcinoma

☐ Metastatic cancer - if so, do not check cancer

☐ Rheumatic or connective tissue disease

☐ HIV/AIDS

☐ Skin ulcers/cellulitis

☐ Depression

☐ Dementia

☐ On Warfarin

Dose

Early CTCAE toxicity (< 3 months)

☐ Yes

☐ No

Late CTCAE toxicity

☐ Yes

☐ No

Meningioma progression/regrowth

☐ Yes

☐ No

Scan date (at progression or last follow-up date if no progression)

Today D-H-Y

WHO PS at time of progression/last follow-up

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5 (dead)

Form Status

Complete? Incomplete

Save & Exit Form Save & Stay

Cancel

fSRT

Follow-Up

Editing existing Record ID 39-15

Event Name: Meningioma 1

Record ID 39-15

fRT (Page/Section 8)

fRT Start Date Today D-H-Y

fRT End Date Today D-H-Y

Indication for Intervention

☐ Clinical-radiological

☐ Clinical

☐ Radiological

☐ Patient preference

Pre-radiation WHO PS

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

Pre-radiation comorbidity

☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment

☐ Previous myocardial infarction

☐ Congestive heart failure

☐ Peripheral vascular disease

☐ Previous stroke/TIA - if hemiplegia present, do not check

☐ Hemiparesis/paraplegia

☐ Diabetes which requires medical treatment

☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment

☐ COPD/Asplenia

☐ Renal disease

☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension

☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites

☐ Peptic ulcer disease

☐ Cancer - excluding basal cell carcinoma

☐ Metastatic cancer - if so, do not check cancer

☐ Rheumatic or connective tissue disease

☐ HIV/AIDS

☐ Skin ulcers/cellulitis

☐ Depression

☐ Dementia

☐ On Warfarin

Number of fractions

Fractionated Dose

Total dose

Early CTCAE toxicity (< 3 months)

☐ Yes

☐ No

Late CTCAE toxicity

☐ Yes

☐ No

Meningioma progression/regrowth

☐ Yes

☐ No

Scan date (at progression or last follow-up date if no progression)

Today D-H-Y

WHO PS at time of progression/last follow-up

☐ 0

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5 (dead)

Form Status

Complete? Incomplete

Save & Exit Form Save & Stay

Cancel

Enter data, change form status to complete and click Save & Exit form

Data entry is now complete

If all circles are green, happy days!

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)	●						
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	●						
Baseline Imaging Characteristics (Page/Section 3)		●	●	●	●	●	●
Management Decision (Page/Section 4)		●	●	●	●	●	●
Follow-Up		●	●	●	●	●	●

Repeating Instruments



Follow-Up	
Meningioma 1	
1	●
2	●
3	●
+ Add new	



Note if you try to enter further follow-up data using the + sign or + Add new, you'll get the following message



Editing existing Record ID 39-15 (Instance #2)	
Event Name: Meningioma 1	
Record ID	39-15
No further data needs to be entered for this subject. please click on Cancel and exit data entry for this subject	
Form Status	
Complete?	Incomplete
Save & Exit Form Save & Stay	
Cancel	



**Scenario 3: Patient was discharged/lost
to follow-up after 2nd interval scan**



Active Monitoring (Page/Section 5)



Scan date * must provide value **1**   Today D-M-Y



Peritumoural signal intensity on T2 * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on T2/FLAIR MRI. If only CT or T1 MRI available, N/A



Peritumoural signal intensity on FLAIR * must provide value   ☐ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A reset
In relation to tumour volume on FLAIR MRI. If only CT or T1 MRI available, N/A



Venous sinus nearby * must provide value   ☐ Yes ☐ No reset
Select if within 10 mm, in direct contact or invading one of: superior sagittal sinus (SSS), sigmoid sinus (SS), transverse sinus (TS), cavernous sinus (CS) and the confluence of sinuses (CoS)

Major axis (mm) * must provide value   reset
In mm to 1 dp. Measure on axial T1/CT + GAD if available




Minor axis (mm) * must provide value   reset
In mm to 1 dp. Perpendicular to the major axis on axial T1/CT + GAD if available



Cor/sag major axis * must provide value   reset
In mm to 1dp. Maximum height

Any new meningioma-related symptoms? * must provide value   ☐ Yes ☐ No reset

Outcome * must provide value   ☐ Resume follow-up (active monitoring) ☐ Surgery ☐ SRS ☐ fRT ☐ Discharge ☐ Lost to follow-up ☐ Dead reset
You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this interval scan, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene. If the option you choose is set to take place in the future, choose the option, save the data entered and exit the form with no further information required

Form Status

Complete? **3**    Incomplete reset

4  Save & Exit Form Save & Stay  -- Cancel --

Save & Stay

Save & Add New Instance

Save & Exit Record

Save & Go To Next Record

1. Enter the date of second interval scan

2. Select outcome discharged from outpatient care/lost to follow-up

3. Change form status to complete if all data provided

4. Click Save & Exit Form or Save & Add New Instance

Save & Exit Form clicked in the previous section

Form status = complete
AIM

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input checked="" type="radio"/>
Management Decision (Page/Section 4)		<input checked="" type="radio"/>
Follow-Up		<input checked="" type="radio"/>

Repeating Instruments

Follow-Up	Meningioma 1
1	<input checked="" type="radio"/>
2	<input checked="" type="radio"/>
<input type="button" value="+ Add new"/>	

Form status = unverified

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input checked="" type="radio"/>
Management Decision (Page/Section 4)		<input checked="" type="radio"/>
Follow-Up		<input checked="" type="radio"/>

Repeating Instruments

Follow-Up	Meningioma 1
1	<input checked="" type="radio"/>
2	<input type="radio"/>
<input type="button" value="+ Add new"/>	

Form status = incomplete

Data Collection Instrument	Baseline	Meningioma 1
Baseline Clinical Characteristics (Page/Section 1)	<input checked="" type="radio"/>	
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	<input checked="" type="radio"/>	
Baseline Imaging Characteristics (Page/Section 3)		<input checked="" type="radio"/>
Management Decision (Page/Section 4)		<input checked="" type="radio"/>
Follow-Up		<input checked="" type="radio"/>

Repeating Instruments

Follow-Up	Meningioma 1
1	<input checked="" type="radio"/>
2	<input type="radio"/>
<input type="button" value="+ Add new"/>	

Save & Add New Instance clicked section

Event Name: **Meningioma 1**

Record ID: 39-18

Discharge from outpatient care/Lost to follow-up (Page/Section 9)

Date of data entry into the database Today D-M-Y
* must provide value

Rescanned during the time between discharge/loss to follow-up and the date of data entry ☐ Yes ☐ No
* must provide value reset

Form Status

Complete? Complete ▼

Can alternatively click on
+ sign or + Add new if
you went with Save and
Exit Form

Rescanned or re-admitted after discharge or loss to follow-up?

No

Yes

Event Name: Meningioma 1

Record ID: 39-17

Discharge from outpatient care/Lost to follow-up (Page/Section 9)

Date of data entry into the database: 16-09-2020

Rescanned during the time between discharge/loss to follow-up and the date of data entry: ☐ Yes ☒ No

Overall outcome: ☒ Dead ☐ Alive

Form Status: Incomplete

Complete?: ☐ Incomplete

Buttons: Save & Exit Form, Save & Add New Instance, Cancel

Overall outcome: Alive or dead?

Alive

Dead

Complete form, change status to complete and click Save & Exit Form

Complete form, change status to complete and click Save & Exit Form or Save & Add New Instance to directly get to the mortality section

Data entry complete. No more data entry will be permitted

Event Name: Meningioma 1

Record ID: 39-17

Discharge from outpatient care/Lost to follow-up (Page/Section 9)

Date of data entry into the database: 16-09-2020

Rescanned during the time between discharge/loss to follow-up and the date of data entry: ☒ Yes ☐ No

Date of scan: 16-09-2020

Reason?: ☐ Seizure ☐ Headache ☐ Motor ☐ Sensory ☐ Language ☐ Cognitive ☐ Other

Peritumoural signal intensity on T2: ☒ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A

Peritumoural signal intensity on FLAIR: ☒ 0-5% ☐ 6-33% ☐ 34-66% ☐ 67-100% ☐ N/A

Venous sinus nearby: ☒ Yes ☐ No

Major axis (mm):

Minor axis (mm):

Cor/sag major axis (mm):

Verdict: ☒ Related ☐ Unrelated

Outcome: ☒ Resume follow-up (active monitoring) ☐ Surgery ☐ SRS ☐ RT ☐ Discharge ☐ Lost to follow-up ☐ Dead

Form Status: Complete

Complete?: ☐ Complete

Buttons: Save & Exit Form, Save & Go To Next Instance

Complete form, change status to complete and click Save & Exit Form or Save & Add New Instance. Previous sections demonstrated in this guide will be repeated based on management decision at this point

Keeping track of records and completion status

Back to the home page



1

2

The screenshot shows the REDCap Record Status Dashboard. A red arrow labeled '1' points to the 'Record Status Dashboard' link in the left sidebar. Another red arrow labeled '2' points to the 'Add / Edit Records' link in the same sidebar. The main content area displays the 'IMPACT' project dashboard, including a 'Project Home' button, 'Quick Tasks' (Codebook, Export data), and a 'Project Dashboard' section with tables for 'Current Users' and 'Project Statistics'.

Current Users (5)

User	Expires
impacttest1 (IMPACT Test 1)	never
impacttest2 (IMPACT Test 2)	never
impacttest3 (IMPACT Test 3)	never
janet1h	never

Project Statistics

Records in project	Total: 26 / In group: 14
Most recent activity	03-07-2020 13:53
Space usage for docs	0.37 MB

We'll go with function 1 this time

Logged in as Impacttest1 | Log out

My Projects

Project Home

REDCap Messenger

Project status: Development

Data Collection

Record Status Dashboard

View data collection status of all records

Add / Edit Records

Create new records or edit/view existing ones

Applications

Data Exports, Reports, and Stats

Field Comment Log

Help & Information

Help & FAQ

Video Tutorials

Suggest a New Feature

Contact REDCap administrator

IMPACT

Record Status Dashboard (all records)

Displayed below is a table listing all existing records/responses and their status for every data collection instrument (and if longitudinal, for every event). You may click any of the colored buttons in the table to open a new tab/window in your browser to view that record on that particular data collection instrument. Please note that if your form-level user privileges are restricted for certain data collection instruments, you will only be able to view those instruments, and if you belong to a Data Access Group, you will only be able to view records that belong to your group.

Dashboard displayed: [Default dashboard] ▼

Displaying record Page 1 of 1: "39-1" through "39-18" ▼ of 18 records ALL (18) ▼ records per page

Displaying: Instrument status only | Lock status only | All status types

Legend for status icons:

- Incomplete
- Incomplete (no data saved)
- Unverified
- Complete
- Many statuses (all same)
- Many statuses (mixed)

Record ID	Baseline			Meningioma 1			Meningioma 2			Meningioma 3			Meningioma 4			Meningioma 5			Meningioma 6		
	Baseline Clinical Characteristics (Page/Section 1)	Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up	Baseline Imaging Characteristics (Page/Section 3)	Management Decision (Page/Section 4)	Follow-Up
39-1																					
39-2																					
39-3																					
39-4																					
39-5																					
39-6																					
39-7																					
39-8																					
39-9																					
39-10																					
39-11																					
39-12																					
39-13																					
39-14																					
39-15																					
39-16																					
39-17																					
39-18																					

1. Traffic light system for form completion within the database. Green = completed (aim)

2. Click on any circle to get to the section you would like to revisit

3. Click the patient ID to get to the specific overview of that patient's sections

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up							

Repeating Instruments	
Follow-Up	
Meningioma 1	
1	
2	
3	
(+ Add new)	

Aim for all circles to be green by the end

Changing management data

To demonstrate this, let's assume the following:

A patient underwent fSRT at diagnosis but data were initially entered under the management option SRS in section 4. Afterwards, it was realised that the patient was subject to fSRT

1. Return to the SRS section that we wish to delete now by clicking the 1st instance of follow-up (green circle)

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up							

Repeating Instruments

Follow-Up Meningioma 1

1

new

2. Reset all fields. For any variables without the reset option, either delete the text or unclick the selected option

Record ID 39-24

SRS (Page/Section 7)

SRS Date 24-01-2012 Today D-M-Y

Delete

Indication for intervention

Pre-radiation WHO PS

Unclick

Pre-radiation comorbidity

4. Click Ignore and leave record

NOTE: Some fields are required!

Your data was successfully saved, but you did not provide a value for some fields that require a value. Please enter a value for the fields on this page that are listed below.

Provide a value for...

- SRS Date
- Indication for intervention
- Pre-radiation WHO PS
- Pre-radiation comorbidity
- Dose
- Early CTCAE toxicity (≤ 3 months)
- Late CTCAE toxicity
- Meningioma progression/regrowth
- Scan date (at progression or last follow-up date if no progression)
- WHO PS at time of progression/last follow-up

Okay Ignore and leave record

3. Click Save & Exit form

Incomplete

Save & Exit Form Save & Stay

Cancel

Next slide

5. Select the management decision section (green circle)

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up							

Repeating Instruments

Follow-Up
Meningioma 1

1

+ Add new

Record ID 39-24

fRT (Page/Section 5)

fRT Start Date Today 0:00 Y
* must provide value

fRT End Date Today 0:00 Y
* must provide value

Indication for intervention
☐ Clinical-radiological
☐ Clinical
☐ Radiological
☐ Patient preference
* must provide value

Pre-radiation WHO PS
☐ 0
☐ 1
☐ 2
☐ 3
☐ 4
* must provide value

Pre-radiation comorbidity
* must provide value

☐ Hypertension - systolic > 140 or diastolic > 90 and patients on medical treatment
☐ Previous myocardial infarction
☐ Congestive heart failure
☐ Peripheral vascular disease
☐ Previous stroke/TIA - if hemiplegia present, do not check
☐ Hemi/paraplegia
☐ Diabetes which requires medical treatment
☐ Diabetes with end-organ damage - if so, do not check diabetes that requires treatment
☐ COPD/Asthma
☐ Renal disease
☐ Mild liver disease - Hep B/C or cirrhosis without portal hypertension
☐ Moderate to severe liver disease - cirrhosis with portal hypertension, jaundice, ascites
☐ Peptic ulcer disease
☐ Cancer - excluding basal cell carcinoma
☐ Metastatic cancer - if so, do not check cancer
☐ Rheumatic or connective tissue disease
☐ HIV/AIDS
☐ Skin ulcers/cellulitis
☐ Depression
☐ Dementia
☐ On Warfarin

Age and comorbidities will be used to calculate the age adjusted Charlson comorbidity index. Each of these is defined in the guide provided

Number of fractions
* must provide value

Fractionated Dose
* must provide value

Total dose
* must provide value

Early CTCAE toxicity (53 months)
☐ Yes
☐ No

6. Select fRST and Save & Exit form

Editing existing Record ID 39-24

Event Name: Meningioma 1

Record ID 39-24

Decision
* must provide value

☐ Active Monitoring
☐ Surgery
☐ SRS
☒ fRT
☐ Discharge from outpatient care
☐ Lost to follow-up
☐ Dead
You will be directed to the relevant page/section dependent on the choice. If the patient died or was lost to follow-up after this point in time, please choose one of the last two options, albeit the intention might have been to continue monitoring or intervene.

Form Status

Complete? Complete

Save & Exit Form Save & Go To Next Form

Cancel

7. Select follow-up

Data Collection Instrument	Baseline	Meningioma 1	Meningioma 2	Meningioma 3	Meningioma 4	Meningioma 5	Meningioma 6
Baseline Clinical Characteristics (Page/Section 1)							
Number of Meningiomas on 1st Diagnostic Scan (Page/Section 2)							
Baseline Imaging Characteristics (Page/Section 3)							
Management Decision (Page/Section 4)							
Follow-Up							

Repeating Instruments

Follow-Up
Meningioma 1

1

+ Add new

8. Re-enter data and click Save & Exit form

If you change the management decision without clearing your answers in the initial form i.e. SRS in this example, then you'll get lots of these messages with lots of OKs to press!!

ctrc.liv.ac.uk says

ERASE CURRENT VALUE OF THE FIELD "p6_surgery_date" ?

The current field for which you just entered data requires that the field named "p6_surgery_date" be hidden from view. However, that field already has a value, so its value might need to be reset back to a blank value.

Click OK to HIDE this field and ERASE its current value. Click CANCEL if you DO NOT wish to hide this field or erase its current value.

OK

Cancel

General tips

- Attempt to upload data for each patient with their complete records available. This is to save you time having to go back to any of the patient's sections once done
- If not possible, please remember to utilise the traffic light system to denote incomplete sections (either red or amber) and the record status dashboard to identify incomplete sections
- Have a go using REDCap with dummy patients to get used to it. These dummy patients, if their study IDs (generated by REDCap) are not included in the study enrolment log, won't be included in the analysis so no worries



IMPACT

Incidental Meningioma: Prognostic Analysis Using Patient Comorbidity and MRI-Tests

Thank you

We hope the guide has provided a comprehensive overview of the use of REDCap. However, if anything is unclear or if you have any questions, please don't hesitate to contact us at contact@impact-meningioma.com

