

Purpose	This tool provides tips for using REDCap to manage data for a systematic review.
Format	The tool contains examples of how MSKTC uses REDCap to manage a systematic review, complete with screenshots from REDCap and a sample coding form.
Audience	This tool is designed primarily for researchers from the Model Systems that are funded by the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). The tool can be adapted by other NIDILRR-funded grantees and the general public.

The contents of this tool were developed under a grant (number 90DP0082) from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR). NIDILRR is a part of the Administration for Community Living within the U.S. Department of Health and Human Services. However, those contents do not necessarily represent the policy of the U.S. Department of Health and Human Services, and you should not assume endorsement by the federal government.



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What Is REDCap?

REDCap (Research Electronic Data Capture) is an online tool built by Vanderbilt University that was designed to collect and manage data. MSKTC uses REDCap to manage systematic review data. The REDCap database creates questions based on the needs researchers outline in the protocol. The protocol helps define what researchers need to answer for their systematic review and how the information will be gathered in the REDCap database. The protocol influences the design and programming of questions, such as which questions are multiple choice, single choice, or open-ended, and which questions or responses need a "follow-up". A sample protocol is included (see Appendix A). REDCap can be used for a longitudinal study, clinical studies, or for an online survey. A consortium of research institutions uses REDCap.

For more information about REDCap, please review this video: <u>https://redcap.vanderbilt.edu/consortium/videoplayer.php?video=redcap_overview_brief01&t</u> <u>itle=Brief Overview of REDCap&referer=redcap.airprojects.org</u>

What Are the Benefits of Using REDCap?

REDCap

- Protects data with secure web authentication, data logging, and Secure Sockets Layer (SSL) encryption
- Enables users to customize the data collection tool for their systematic reviews
- Offers advanced programming of questions like auto-validation, branching logic, and stop actions
- Offers key features to analyze double data entry/blinded data entry data
- Exports data into formats for analysis with Excel, SPSS, R, SAS, or STATA

What Are Tips for Using REDCap?

We have included visuals with tips and best practices for using REDCap for a systematic review. To use REDCap to manage your systematic review, it is important to

- Create a clear protocol to make the REDCap coding as easy as possible.
- Create conditional questions based on the protocol.
- Manage project progress with the Record Status Dashboard.
- Make assignments to communicate with researchers about the articles that they must review.
- Export data and selected questions in a readable format.



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Create a Clear Protocol

A **protocol** outlines the questions that the systematic review should answer. A protocol is important for building a REDCap database because it reflects the reviewers' process. This is important in determining which articles meet the inclusion criteria. The following is a sample of inclusion criteria used by reviewers for a systematic review in a Word document. The full protocol can be found in Appendix A.

• This protocol seeks to include articles that meet either of the first two criteria (i.e., that the article contains information about the consequences of TBI, or that the article contains information about self-management training) and also only wants to include articles that are intended for a specific audience (people with TBI or caregivers/family).

INCLUSION: Article includes information about: _ education on consequences of TBI OR ____ self-management training on how to manage consequences of TBI AND education (or training) is intended for people with TBI or caregivers/ family Both of the above must be checked for article to be reviewed EXCLUSION (if any checked, STOP REVIEW): education or training concerns a specific deficit or problem associated with TBI (physical, cognitive or emotional function; substance abuse)(note: comprehensive "packages" or education programs with modules on various specific topics are OK) OR _education is intended for disability/ disease other than TBI/ ABI OR training concerns goal management, problem-solving, executive function, managing schedules, etc. OR ____ education or training is focused on <u>prevention</u> of TBI / ABI OR _____ target audience is professionals (medical professionals, teachers, coaches, athletic trainers, etc.) OR target audience is general public (e.g., public awareness campaigns) OR there is no education or training discussed in the article OR other reason (specify):



Create Conditional Questions Based on Protocol

REDCap's Online Designer allows systematic review managers to create conditional questions with the branching tool.

• Step one is to create a question in REDCap. This question will contain the message that you want to pop up when the inclusion criterion is not met (the screenshot below shows an example of the backend to create a question in REDCap). You will notice that the question text in both the Field Label and Choices boxes was formatted using basic HTML.

Edit Field		:	
You may add a new project field to this data collection instrument loottom. When you add a new field, it will be added to the form on the you may view the set Field Types video (4 min).	by completing the fields below and clicking this page. For an overview of the different f	the Save button at the ield types available,	
Field Type: Multiple Choice - Radio Buttons (Single Answe	ər) 🗘		
Displayed only on the survey page	Variable Name (utilized during data ex	port)	
Field Label	Stop_1 ONLY letters, numbers, and underscores	variable based upon its	
Article is not relevant for review	Required?* No Yes * Prompt if field is blank		
	Identifier? No Yes Does the field contain identifying information	(e.g., name, SSN, address)?	
	Custom Alignment Left / Horizon	ontal (LH) 🛟	
Choices (one choice per line) Copy existing choices			
1, If the article is not relevant for the review please check here and provide the	Small reminder text displayed underneath field	1	
reason that you do not feel that this article is not appropriate to include in the review.	Field Annotation Explanatory notes -	not displayed on any page ?	
How do I manually code the choices?			
		Save Cancel	



Once the question is created, then the logic can be developed. First you must select the • branching logic button (green arrows, circled) to indicate that you want this question to show up only under certain conditions (shown below).



In this case, MSKTC used the Advanced Branching Logic Syntax. The protocol is clear in • what is to be included or excluded, so it is easy to code all possible scenarios into the syntax box. REDCap provides tips within the tool for programming the logic into the survey (circled).

method below for the following field: s	top_1 - Article	is not relevant for review
Advanced Branching Logic Syntax	(How do I u	use the advanced syntax?)
([inclusion_criteria_1]='0' and [inclusion_criteria_2 [inclusion_criteria_2]='1' and [inclusion_criteria_3] [inclusion_criteria_3]='1') or ([inclusion_criteria_1]:]='0' and [inclusio ='0') or ([inclusion ='0' and [inclusion	on_criteria_3]='0') or ([inclusion_criteria_1]='0' and n_criteria_1]='0' and [inclusion_criteria_2]='1' and n_criteria_2]='0' and [inclusion_criteria_3]='1') or
Drag-N-Drop Logic Builder		
Drag-N-Drop Logic Builder		Show the field ONLY if
Drag-N-Drop Logic Builder Field choices from other fields (drag a choice below to box on right)		Show the field ONLY if • ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) [record_id = (define criteria)	• →	Show the field ONLY if ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) record_Id = (define criteria) Intake_Ind = (define criteria) Intake_Initials = (define criteria)	0 →	Show the field ONLY if ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) record_id = (define criteria) intake_initials = (define criteria) intake_initials = (define criteria) intake_date = (define criteria)	Drag and Drop	Show the field ONLY if • ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) record_id = (define criteria) intake_initials = (define criteria) intake_initials = (define criteria) intake_date = (define criteria) intake_author_year = (define criteria) intake_author_year = (define criteria)	Drag and Drop	Show the field ONLY if • ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) record_id = (define criteria) intake_id = (define criteria) intake_initials = (define criteria) intake_date = (define criteria) intake_author_year = (define criteria) intake_title = (define criteria) intake_title = (define criteria)	Drag and Drop →	Show the field ONLY if • ALL below are true ANY below are true
Field choices from other fields (drag a choice below to box on right) record_id = (define criteria) intake_ida = (define criteria) intake_ida = (define criteria) intake_date = (define criteria) intake_author_year = (define criteria) intake_title = (define criteria) intake_bastract = (define criteria) intake_otate = (define criteria) intake_bastract = (define criteria) inclusion_criteria_1 = Yes (1)	Drag and Drop →	Show the field ONLY if • ALL below are true ANY below are true



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• If the branching logic is not complicated, the **Drag-N-Drop Logic Builder** is a helpful point and click tool to use. An example, using the same question, is shown below. This has the termination question display if any of the inclusion criteria questions were coded as "No." Simply highlight the response on the left and drag it to the box on the left. To delete a response on the right, click the red X.

T Add/Edit Branching Logic

Branching Logic may be employed when fields/questions need to be hidden under certain conditions. If branching logic is defined, the field will only be visible if the conditions provided are true (i.e. show the field only if...). You may specify those conditions in the text box below for the Advanced Branching Logic Syntax or by choosing the Drag-N-Drop Logic Builder method, which allows you to build your logic in a much easier fashion by simply dragging over the options you want. You may switch back and forth between each method if you wish, but please be aware that since the advanced logic allows for greater complexity, it may not be able to be switched over to the Drag-N-Drop method if it becomes too complex.

Choose method below for the following field: stop_1 - Article is not relevant for review

Advanced Branching Logic Syntax

(How do I use the advanced syntax?)

Show the field ONLY if... [inclusion_criteria_1] = '0' or [inclusion_criteria_2] = '0' or [inclusion_criteria_3] = '0'

- OR -

Drag-N-Drop Logic Builder

Field choices from other fields (drag a choice below to box on right) Intake_abstract = (define criteria) inclusion_criteria_1 = Yes (1)	⇒	Show the field ONLY if ALL below are true ANY below are true inclusion_criteria_1 = No (0)
inclusion_criteria_1 = No (0) inclusion_criteria_2 = Yes (1) inclusion_criteria_2 = No (0)	Drag and Drop	inclusion_criteria_2 = No (0) X inclusion_criteria_3 = No (0) X
inclusion_criteria_3 = Yes (1) inclusion_criteria_3 = No (0) inclusion_criteria_4 = Yes (1)	⇒	
inclusion_criteria_4 = No (2)		<u>Clear logi</u>



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Here are examples of how this branching logic appears to reviewers.

• If the article does meet the inclusion criteria, then the question for termination does not appear and reviewers can continue to the next section.

Inclusion Crit	eria	
 Education or information or training given to patients or family about consequences of brain injury Include self-management training. This is a specific training model that has been applied to chronic health conditions such as diabetes, asthma, arthritis, heart disease, and stroke. SMT typically includes teaching patients how to set goals and solve problems related to chronic symptom management, how to fit disease management into one's lifestyle and preferences, and how to interface effectively with the healthcare system. In its focus on patients taking active control over symptom management, it may be contrasted with more traditional passive patient education programs that consist mostly of provision of information and commendations for lifestyle change. Include comprehensive education programs made up of separate topics Chicle even if contents of education are not detailed to include information on general cognitive and/ or behavioral issues or consequences Kalved training for specific deficit (e.g. walking, memory advocacy skills training, problem solving training for popression) unless different topics are combined into comprehensive package OR multiple cognitive/ behavioral issues at addressed (as in inclusion 14) OR training or beavioral no programs) *nust provide value 	• Yes No	reset
 Target population: People with TBI, family, caregivers (including hired caregivers or anyone providing fee-based caregiving service) for traumatic brain injury Include ABI, if mixed population includes TBI Include fi general trauma, as long as TBI included Exclude public (e.g., public awareness campaigns), personnel not involved in direct long-term caregiving (teachers, coaches, medical personnel), ABI if no TBI included in sample * must provide value 	● Yes ○ No	reset
3. Type of article: Any, except as excluded below a. Include education presented as control for an active intervention, as long as it meets other criteria b. Include surveys on education practices/ materials given out by professionals (even if education not detailed) c. Include program descriptions that mention education component, even if not detailed (unless it only says education was include without any further information) <i>Exclude letters, editorials, conference abstracts, fact sheets, pamphlets, or books geared to persons with TBI</i> * must provide value	● Yes ○ No	reset
Article contains information about a needs assesment? * must provide value	⊖ Yes ⊖ No	reset
Uncertain if the article should be included (please explain) * must provide value	⊖ Yes ⊖ No	reset
Demographic Info	ormation	
Is the education described in the article targeted to (check all that apply):	 People with TBI Family members/ caregivers of people with TBI Other (describe): 	



• If the article does not meet the inclusion criteria, then the question for termination pops up at the end.

Inclusion Cri	teria	
1. Education or information or training given to patients or family about consequences of brain injury a. Include self-management training. This is a specific training model that has been applied to chronic health conditions such as diabetes, asthma, arthritis, heart disease, and stroke. SMT typically includes teaching patients how to set goals and solve problems related to chronic symptom management, how to fit disease management into one's lifestyle and preferences, and how to interface effectively with the healthcare system. In its focus on patients taking active control over symptom management, it may be contrasted with more traditional passive patient education programs that consist mostly of provision of information and recommendations for lifestyle change. b. Include comprehensive education programs made up of separate topics c. Include even if contents of education are not detailed d. Include information on general cognitive and/ or behavioral issues or consequences Exclude training for specific deficit (e.g. walking, memory anger, executive functioning, goal management training, advocacy skills training, problem solving training for depression) unless different topics are combined into comprehensive package OR multiple cognitive/ behavioral issues are addressed (as in inclusion 1d) OR training or education focused on prevention (e.g., shaken baby prevention programs)	● Yes ○ No re:	set
2. Target population: People with TBI, family, caregivers (including hired caregivers or anyone providing fee-based caregiving service) for traumatic brain injury a. Include ABI, if mixed population includes TBI b. Include if general trauma, as long as TBI included <i>Exclude</i> public (e.g., public awareness campaigns), personnel not involved in direct long-term caregiving (teachers, coaches, medical personnel), ABI if no TBI included in sample * must provide value	 Yes No 	set
3. Type of article: Any, except as excluded below a. Include education presented as control for an active intervention, as long as it meets other criteria b. Include surveys on education practices/ materials given out by professionals (even if education not detailed) c. Include program descriptions that mention education component, even if not detailed (unless it only says education was include without any further information) <i>Exclude letters, editorials, conference abstracts, fact sheets,</i> <i>pamphlets, or books geared to persons with TBI</i> * must provide value	 Yes No 	set
Article contains information about a needs assesment? * must provide value	⊖ Yes ⊖ No	set
Uncertain if the article should be included (please explain) * must provide value	⊖ Yes ⊖ No	set
Article is not relevant for review O If the article is not relevant for the review, please check here article is not appropriate to include in the review.	e and provide the reason that you do not feel that this re	set



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Use the Record Status Dashboard to Manage Progress

The **Record Status Dashboard** allows MKSTC to manage the response rate for reviewers in the systematic review. The Dashboard key indicates if reviewers completed their assignments, started their assignments, or did not start their assignments. Below is the Record Status Dashboard from an MSKTC systematic review.

played below a collection ored buttor ord on that or privileges view those e to view re	ow is a table I in instrument (a particular dat a are restricter instruments, a ecords that be	isting all exist and if longitu to open a ne ta collection d for certain and if you be slong to your	sting records idinal, for eve ew tab/windc instrument. I data collection long to a Da group.	/responses a ery event). Y w in your br Please note on instrumer ta Access G	and their stai fou may click owser to vie that if your fo nts, you will o roup, you wi	tus for every any of the w that orm-level only be able Il only be	Leg () () () () () () () () () ()	end for stat ncomplete Jnverified Complete	us icons: Incomple Partial Si Complete	ete (no data s urvey Respo ed Survey Re	aveo nse espo
Displaying	record "10; Instrument st	20" through ' atus only !	'2274" 🔶 🕯	of 248 recor	rds a <u>tus types</u> TBI and	TBI and	TBI and	TBI and	TBI and	TBI and	
Record ID:	Education T (Arm 1: T)	Education K (Arm 2: K)	Education Ma (Arm 3: M)	Education S (Arm 4: S)	Education E (Arm 5: E)	Education Me (Arm 6: M)	Education A (Arm 7: A)	Education Mo (Arm 8: M)	Education Ci (Arm 9: C)	Education CI (Arm 10: C)	
<u>1020</u>	0	0									
1021	0	\bigotimes									
1033	0	\bigcirc									
<u>1034</u>	۲	\bigcirc									
1038											

• Going into each record allows the REDCap manager to share the survey with reviewers (click here to jump to Communicating with Researchers).



• Clicking on records marked as completed (i.e., by clicking on the green check mark next to the study ID) lets the REDCap manager access the reviewer's responses (example below, next page).

TBI and Education					
Survey response is read-only					
Response is only partial and is not complete. Response was added on 01/21/2016 7:51pm. You have not begiven permission to edit survey responses. However, your permissions may be changed on the User Rights page in order to allow editing of survey responses. 1 person (the survey respondent) has contributed to this partial survey response.					
Return Code for participant to edit the completed response:	TDFMWFRT				
Record ID: 9999 – CI (Arm 9. C)					
Record ID: 9999					
Record ID:	9999				
Record ID: The purpose of this scoping review is to address the follow	9999 ing questions:				
Record ID: The purpose of this scoping review is to address the follow 1. What types of general education have been provided to p	9999 ing questions: patients and family members about the consequences of TBI?				
Record ID: The purpose of this scoping review is to address the follow 1. What types of general education have been provided to p 2. What are the gaps in the literature specific to: a. Education regarding the consequences of TBI along the b. The comprehensiveness of education about TBI in terms c. The degree of active learning (e.g., self-management or g (e.g., traditional didactic patient education)?	9999 ing questions: patients and family members about the consequences of TBI? continuum of severity from mild to severe? of amount and scope provided? general symptom management training) vs. passive learning				
Record ID: The purpose of this scoping review is to address the follow 1. What types of general education have been provided to p 2. What are the gaps in the literature specific to: a. Education regarding the consequences of TBI along the b. The comprehensiveness of education about TBI in terms c. The degree of active learning (e.g., self-management or g (e.g., traditional didactic patient education)? 3. What is known about the outcomes and outcome measure family members?	9999 ving questions: patients and family members about the consequences of TBI? continuum of severity from mild to severe? of amount and scope provided? general symptom management training) vs. passive learning res for educational interventions for people with TBI or their				



Setting up the Record Status Dashboard

MSKTC set up the Record Status Dashboard with the Events feature in REDCap. This allows MSKTC to collect multiple data entry points for the same form. For example, if we wanted researchers to review the same article at a different time, we would not have to overwrite the previously entered data. To do this, MSKTC gives each time we want to review the data a different event name. The arms feature allows MSKTC to group the events into distinct categories. We named our arms after the reviewers to track all the data that specific reviewers entered. This gave us the separate columns labeled for each reviewer.

• To do this, click on the "Define My Events" button (circled) in the Project Setup tab.

	🏫 Project H	lome	🛐 Project Setup	Just Conter Functionality	Project Revision History	
Pr	oject status:	nevel 🖉	opment		Completed	steps 0 of 8
		Main	project settings			
		Disab	le 🛛 📀 Use longitudi	nal data collection with repe	ating forms? ?	
	Not started	Disab	🔋 📀 Use surveys	in this project? ?	VIDEO: How to create and manage a	survey
	I'm done!	Mod	dify project title, purpos	e, etc.		
		Desi	gn your data colle	ction instruments & enal	ble your surveys	
	In progress	Add o Online metho links:	r edit fields on your dat e Designer (online metl od or both. You may the <u>Download PDF of all d</u>	ta collection instruments (surve hod) or by uploading a Data Di en enable your instruments to b ata collection instruments OR	ey and forms). This may be done by a ctionary (offline method), in which yo be used as surveys in the Online Des Download the current Data Dictionar	either using the u may use either signer. Quick <u>y</u>
		Go to	Online Designer	• or 🛛 🛛 Data Dictionary		
		You n	nay also browse for pre	-built data collection instrumer	ts in the REDCap Shared Library	
		Have	you checked the Chec	k For Identifiers page to ensur	e all identifier fields have been tagge	d?
		Defi	for them			
		Creat	e events for re-using da	ata collection instruments and/	or set up scheduling.	
	In progress	Go to	Define My Events	Designate Instruments f	or My Events	
	I'm done!					



Rename Arm 1 | Delete Arm 1

• Next, add an arm for each reviewer and give that arm an event name (in our case, we gave the arm and the event the same name). See the example on the next page.

STEP #1:

To add new events below, provide an **Event Name** and the **Days Offset** for that event, and then click the *Add new event* button. If your events are temporal (e.g., visits, tasks), you may use the Days Offset to provide a timeframe of all your events relative to the time of the first event defined. If your events are not temporal but are ordered, you may still use the Days Offset simply as a means of ordering your events.

STEP #2:

If you will be performing formal data collection in this project, then once you have defined your events on this page, you may navigate to the <u>Designate Instruments for My Events</u> page, where you may select which data collection instruments that you wish to utilize for each event you defined.

(Arm 1: T	Arm 2: K	Arm 3: M	Arm 4: S	Arm 5: E	Arm 6: M	Arm 7: A	Arm 8: M	Arm 9: C
	Arm 10: C +Add New Arm								

Arm name: T

	Event #	Days Offset	Offset Range Min / Max	Event Name	Unique event name () (auto-generated)
0 🗙	1	0	-0/+0	Т	t_arm_1
Add ne	w event	Convert from other units	-0 +0	Descriptive name for this event	

• Then, go to the next tab, "Designate Instruments for My Events," to add the data entry form that you want to be associated with each arm. Click "Begin Editing" to add the form.





Communicating with Researchers

Data imported into the REDCap database can be shared with reviewers in two ways: by e-mail or by access codes. Both methods are secure and send an individual link to each reviewer.

To send a survey to a reviewer, go into the survey that you want to share (from the Record Status Dashboard) and select Survey Options. Clicking "Survey Options" brings up a drop-down menu with two ways to send the survey.

Survey response is read-only	Survey options	
Response is only partial and is given permission to edit survey resported order to allow editing of survey resportes response. Return Code for participant to edit the conditional condititational condi	Open survey Open survey Compose survey invitation Survey Access Code and QR Code mpleted response: TDFMWFR	dded on 01/21/2016 7:51pm. You have not been s may be changed on the User Rights page in ondent) has contributed to this partial survey
Record ID:	9999	

The purpose of this scoping review is to address the following questions:

1. What types of general education have been provided to patients and family members about the consequences of TBI?

2. What are the gaps in the literature specific to:

a. Education regarding the consequences of TBI along the continuum of severity from mild to severe?

b. The comprehensiveness of education about TBI in terms of amount and scope provided?

c. The degree of active learning (e.g., self-management or general symptom management training) vs. passive learning (e.g., traditional didactic patient education)?

3. What is known about the outcomes and outcome measures for educational interventions for people with TBI or their family members?

Artic	le	D:
~		

9999



• MSKTC uses **Survey Invitations**, or individual e-mails, to assign articles to each reviewer for review. An example is shown below. Invitations can be sent immediately or at a specified date and time.

TBI and I	Send Survey Invitation to Participant "9999" ×
Actions:	Info Survey title: TBI and Education Event: Ci (Arm 9: C)
📕 TBI and	When should this email be sent? Immediately
Survey	At specified time: M/D/Y H:M The time must be for the time zone UTC, in which the current time is 12/12/2016 14:15.
Responsion given permis order to allo response.	 Enable reminders Re-send invitation as a reminder if participant has not responded by a specified time?
Return Code	Compose message
Record ID: 9	From: cbocage@air.org \$
Record ID: The purpose	To: select an existing email address + Or provide another email:
1. What type 2. What are 1	Subject:
a. Educatior b. The comp c. The degre (e.g., traditic	
3. What is ki family memi	
Article ID:	NOTE: The survey link will be automatically included in the email message.
Reviewer Ini	Send Invitation Cancel
Date of Revi	



×

Reviewers can also be sent Survey Access Codes or a QR code to access surveys. Below • is an example.

🏡 Survey Access Code or 🎇 QR Code

Survey title: "TBI and Education"

A Survey Access Code and a QR Code both allow respondents to begin a survey on another computer or device without someone having to email them an invitation. This is especially useful if the respondent is currently nearby or if you will be sending the survey invitation to a physical mailing address (i.e. 'snail mail'). You may click the Print button at the bottom if you wish to print out the instructions for the respondent.

Enter the Survey Access Code

To allow a respondent to begin this survey, have them navigate to the URL below and enter the survey access code. The code is permanent and will never change. (Note: The web address is the same for all projects and surveys, so you may bookmark the address on a computer or device to quickly return to it multiple times.)

1.) Go to this web address:

https://redcap.airprojects.org/surveys/

2.) Then enter this code:

7JCPPDHTR

OR

Generate Short Code

Alternatively, you may generate a shorter, temporary code that will expire after only one use or after one hour has passed.

Generate Short Code

Scan the QR Code

The survey link has been converted into a QR code, which can now be scanned by a device that has an app capable of reading QR codes. Once the QR code below is scanned, it should take the respondent directly to the survey in a web browser.



Print for Respondent

Close



Export Data for Review

Exporting reviewer responses from REDCap for analysis is simple. REDCap can format data so that it can be read by multiple programs.

• To export data, go to the Applications tab on the left and select "Data Exports, Reports, and Stats" (shown below, circled)

Applications		
Calendar		
Data Exports, Reports, and Stats		
Data Import 1001		
Data Comparison Tool		
📃 Logging		
🔗 Field Comment Log		
File Repository		
🚨 User Rights and 🍰 DAGs		
🛃 Data Quality		
REDCap Mobile App		
Reports <u>Edit reports</u>		
 Completed Articles- Test Tessa Melissa Test 1 TBI and Education Three group data Questions of Interest 0407 8 studies of interest Reconcile 0610 		



From there, all data can be exported or you can build a **report** to only select certain questions.

Му	My Reports & Exports			
		Report name	View/Export Options	Management Options
	A	All data (all records and fields)	View Report Export Data	
	в	Selected instruments and/or events (all records)	A Make custom selections	

An example report is shown below.

			•	
+ Create New R	eport 🛛 🛺 My Reports & Exports	s 👔 PDF & C	Other Export Options 🥜 Edit Existing	g Report: TBI and Educa
may create a new n ou wish, and you ca he project's left-hand uding using complex of reports, after whic	eport by selecting the fields/variables be in choose which users may view this rep d menu for anyone to whom you have gi AND/OR logic. When you are finished, h you may immediately begin viewing th	low that you want ort. You will also r ven access. You c click the Save Re lem or exporting th	to include in the report. You may add as many used to provide a name for your report, which w an filter the results returned in the report in a v oort button at the bottom. The new report will th tem.	fields to your report vill then be displayed ariety of ways, ten be added to your
ame of Report:	TBI and Education Article T	уре		
	1			
(EP 1				
User Access: (Choose who sees this report on th	eir left-hand pr	oject menu 🛛	
All users – OR	- Custom user access (Choose	specific users role		
TEP 2			Add all fields from selected instrument.	instrument A
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TEP 2 Fields to includ Field 1 Field 2	de in report Quick Add record_id "Record ID:" intake_id "Article ID:"	÷ [ee]	Add all fields from selected instrument: choose i Instrument: TBI and Education Instrument: TBI and Education	instrument 💠
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After you select which data you want to export, you can choose the export format you wish to use (shown below). REDCap can export data for use in Excel, SPSS, SAS, R, or STATA.





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Appendix A: Sample Protocol From a Systematic Review

Scoping Review on Education Post-TBI Charting Form

The purpose of this scoping review is to address the following questions:

- 1. What types of general education have been provided to patients and family members about the consequences of TBI?
- 2. What are the gaps in the literature specific to:
 - a. Education regarding the consequences of TBI along the continuum of severity from mild to severe?
 - b. The comprehensiveness of education about TBI in terms of amount and scope provided?
 - c. The degree of active learning (e.g., self-management or general symptom management training) versus passive learning (e.g., traditional didactic patient education)?
- 3. What is known about the outcomes and outcome measures for educational interventions for people with TBI or their family members?



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Article ID: _____

Reviewer Initials: _____

Date of Review: _____

Article Authors /Year:

INCLUSION: Article includes information about:

_____ education on consequences of TBI **OR** _____ self-management training on how to manage consequences of TBI **AND**

_____ education (or training) intended for people with TBI or caregivers, family, or other support system

Both of the above must be checked for article to be reviewed.

EXCLUSION (if any checked, STOP REVIEW):

_____ education or training concerns a specific deficit or problem associated with TBI (physical, cognitive, or emotional function; substance abuse) (note: comprehensive "packages" or education programs with modules on various specific topics are OK) **OR**

_____ education is intended for disability or disease other than TBI/ABI OR

____ training concerns goal management, problem solving, executive function, managing schedules, etc. **OR**

_____ education or training is focused on prevention of TBI/ABI OR

____ target audience is professionals (medical professionals, teachers, coaches, athletic trainers, etc.) OR

_____ target audience is general public (e.g., public awareness campaigns) OR

_____there is no education or training discussed in the article **OR**

____ other reason (specify):

____UNCERTAIN AS TO WHETHER ARTICLE SHOULD BE INCLUDED. Explain the uncertainty here and stop the review:

____Article includes information on NEEDS ASSESSMENT in people/family/support system affected by TBI. If article also meets inclusion criteria for education, continue review on education portion. If not, stop review.

(1) Is the education described in the article targeted to (check all that apply):

____ People with TBI?

____ Family members/caregivers of people with TBI?

____ Other? Describe: _____



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- (2) Is the education on:
- _____ TBI specifically; if so, what severity or age group? Check all that apply:
 - ____ mild TBI/concussion ____ adults
 - ____ moderate/severe TBI ____ children/ adolescents
 - ____ Other type/population; describe: _____
- ____ ABI including TBI:
 - ____ adults
 - ____ children/adolescents
 - _____% of sample with TBI (if relevant):
- Describe ABI sample or population: _____
- (3) Chronicity of population for whom education is intended (check all that apply):
- ____ Emergency care
- ____ Acute care
- ____ Inpatient rehab
- ____ Outpatient, community, or residential (e.g., post-acute)
- ____ Other; describe: ______
- (4) What type of article is this?
- ____ Editorial or letter to the editor; describe: _____
- ____ Program description/program evaluation, no experimental design; describe: _____
- ____ Survey of education practices; describe: ______
- ____ Experimental design
 - ____ Case study or case series (uncontrolled)
 - _____ Single case/multiple single case design (controlled)
 - ____ Pre-post without control
 - ____ Pre-post with control: ____ RCT ____ other controlled design; describe:
 - _____ Education was the main independent variable in the experiment.
 - ____ Education was used as control condition for an active intervention.
 - ____ Other experimental design; describe: ______
- ____ Secondary analysis; describe: ______
- ____ Other type of article; describe: _____



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- (5) Sample information
- ____ No sample included in article
- ____ Sample was included:
 - ____ Sample size:
 - _____ Acuity of TBI/ABI (e.g., mean/range for time post):
 - ____ Notable inclusion/exclusions:
- (6) Is the education described in the article:
- ____ The main topic/intervention described in the article?
- ____ One component of a broader topic or intervention? Briefly list the other components:
- (7) Briefly list the topics covered in the education described in the article:

(8) How is the education delivered (check all that apply)?

- ____ Article does not specify
- ____ Written information (e.g., pamphlet, book)
- ____ In person: ____ 1:1 ____ Dyad ____ Group or class
- _____ Telephone delivery _____ Web delivery

Dose/duration (e.g., six 30-minute sessions over 4 weeks): _____

Other comments on delivery: _____

(9) Outcome measures and results:

____ Article did not use any outcome measures for the education described in the article (skip to next item).

_____ Article used outcome measures but results of education alone cannot be discerned because it was part of a larger program of treatment.

_____ Article used outcome measures specifically to evaluate effects of education.



Outcome measures and results were as follows:

Measure	Results of Education OR Broader Program

Other comments on results:

(10) What are the authors' main conclusions, if any, about the education described in the article?