



**TMF-WORKSHOP REDCAP**

**REDCAP INTRO  
HANDS-OFF WORKSHOP**

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## Beginner Workshop

- Einführung in das eCRF Design (Items, Instruments)
- Branching Logic, Calculations
- Dateneingabe - Testen
- Events / Visiten (Ü)
- Surveys
- Produktionsmodus (Ü)
- Benutzermanagement
- Piping, Action Tags, Smart Variables

## Fortgeschrittenen Workshop

- Reports / Export / Import Ü
- (iPad, REDCap-App, MDM)
- Data Dictionary (Ü)
- Umzug Instrument, Projekt Ü
- Extensions / Hooks
- REDCap Module
- Additional customizations
- DET data entry trigger
- API, API-Playground Ü
- API-Beispiel mit RStudio (Ü)

# 1. Instrument Demographics

- **Record ID**
  - **record\_id**  
immer erstes Item
- **Datum der Aufnahme**
  - **date\_demographics**
  - Action Tag @TODAY
- **Geburtsjahr**
  - Integer
  - Limit 1901-2050
- **Geschlecht**
  - Radio Button
  - m, männlich
  - f, weiblich
  - d, divers

The screenshot shows the configuration interface for a REDCap instrument. It displays five fields with their respective variables and settings:

- Record ID**: Variable: record\_id. A red warning message states: "\* This field will NOT be displayed on the survey page." Below the field name is an empty text input box. A note below reads: "NOTE: The field above is the record ID field and thus cannot be deleted or moved. It can only be edited." Buttons for "Add Field" and "Add Matrix of Fields" are present.
- Datum der Aufnahme**: Variable: date\_demographics. Includes a date picker with a calendar icon, a "Today" button, and a "D-M-Y" format selector. Buttons for "Add Field" and "Add Matrix of Fields" are present.
- Geburtsjahr**: Variable: geburtsjahr. Includes a text input box and a note: "nur das Jahr, z.B. 2001". Buttons for "Add Field" and "Add Matrix of Fields" are present.
- Geschlecht**: Variable: geschlecht. Includes three radio buttons labeled "männlich", "weiblich", and "divers", and a "reset" button. Buttons for "Add Field" and "Add Matrix of Fields" are present.
- Sind Sie schwanger?**: Variable: schwanger\_yn. Includes two radio buttons labeled "Ja" and "Nein", and a "reset" button. A red note indicates branching logic: "Branching logic: [geschlecht] = 'f'". Buttons for "Add Field" and "Add Matrix of Fields" are present.

# Branching Logic

- **Sind Sie schwanger?**
  - Variable **schwanger\_yn**
  - 1, Ja  
0, Nein
  - Branching logic **[geschlecht] = 'f'**

### 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: **schwanger\_yn - Sind Sie schwanger?**

**Advanced Branching Logic Syntax** How to use [Branching Logic](#) [Smart Variables](#)

Show the field ONLY if...

Test logic with a record: -- select record -- [Clear logic](#)

— OR —

**Drag-N-Drop Logic Builder**

Displaying field choices for the following data collection instrument:  
Demographics

Field choices from other fields  
(drag a choice below to box on right)

- record\_id = (define criteria)
- date\_demographics = (define criteria)
- geburtsjahr = (define criteria)
- geschlecht = männlich (m)
- geschlecht = weiblich (f)
- geschlecht = divers (d)
- chiffre = (define criteria)
- schmerzen = keine (1)

Drag and Drop

Show the field ONLY if...

ALL below are true  
 ANY below are true

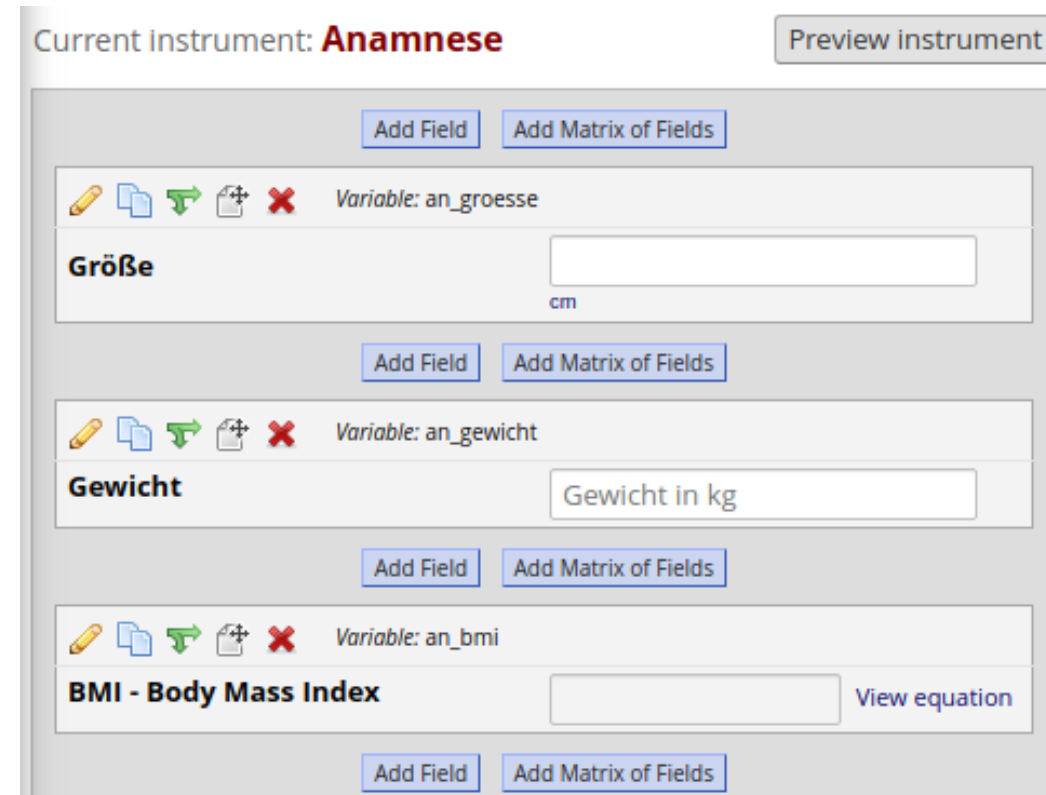
geschlecht = weiblich (f) **X**

[Clear logic](#)

Save Cancel

# 2. Instrument Anamnese

- **Größe**
  - Variable: **an\_groesse**
  - Validation number
  - min/max: 50-300
  - Field Note: cm
- **Gewicht**
  - Variable: **an\_gewicht**
  - Validation number: 10-400
  - Action Tag:  
**@PLACEHOLDER='Gewicht in kg'**
- **BMI**
  - calculated field
  - **$\text{round}([\text{an\_gewicht}]/([\text{an\_groesse}]*[\text{an\_groesse}]/10000),1)$**



# Instrument testen

- Add / Edit Record
- Record auswählen
- Add New Record

Record ID 1

Data Collection Instrument	V1 Einschluss
Demographics (survey)	<input checked="" type="radio"/>
Anamnese	<input checked="" type="radio"/>
Anamnese Followup (survey)	<input type="radio"/>
Laborparameter	<input type="radio"/>
Nacho Craving Index Survey (survey)	<input type="radio"/>
Tat Multplate Labordaten	<input type="radio"/>

## Demographics

Adding new Record ID 3

Event Name: **V1 Einschluss**

Record ID: 3

Datum der Aufnahme:   D-M-Y

Geburtsjahr:  nur das Jahr, z.B. 2001

Geschlecht:  männlich  weiblich  divers

Sind Sie schwanger?:  Ja  Nein











## Data History

Date/Time of Change	User	Data Changes Made
24.10.2019 00:17:55	heteya	2019-10-24
26.10.2019 14:38:37 <small>(most recent data change)</small>	heteya	2019-10-26

## Logging / Audit Trail

Time / Date	Username	Action	List of Data Changes OR Fields Exported
26.10.2019 23:08	heteya	Manage/Design	Download data dictionary
26.10.2019 14:38	heteya	Updated Record 1 (V1 Einschluss)	date_demographics = '2019-10-26'
24.10.2019 00:27	heteya	Manage/Design	Create API token for self
24.10.2019 00:17	heteya	Created Record 1 (V1 Einschluss)	date_demographics = '2019-10-24', demographics_complete = '0', record_id = '1'

# Codebook

	#	Variable / Field Name	Field Label <i>Field Note</i>	Field Attributes (Field Type, Validation, Choices, Calculations, etc.)						
Instrument: <b>Demographics</b> (demographics)  Enabled as survey <a href="#">^ Collapse</a>										
	1	record_id	Record ID	text						
 	2	date_demographics	Datum der Aufnahme	text (date_dmy, Min: 1900-01-01, Max: 2050-12-31) Field Annotation: @TODAY						
 	3	geburtsjahr	Geburtsjahr <i>nur das Jahr, z.B. 2001</i>	text (integer, Min: 1901, Max: 2050)						
 	4	geschlecht	Geschlecht	radio <table border="1"><tr><td>m</td><td>männlich</td></tr><tr><td>f</td><td>weiblich</td></tr><tr><td>d</td><td>divers</td></tr></table> Custom alignment: RH	m	männlich	f	weiblich	d	divers
m	männlich									
f	weiblich									
d	divers									
 	5	schwanger_yn Show the field ONLY if: [geschlecht] = 'f'	Sind Sie schwanger?	radio <table border="1"><tr><td>1</td><td>Ja</td></tr><tr><td>0</td><td>Nein</td></tr></table> Custom alignment: RH	1	Ja	0	Nein		
1	Ja									
0	Nein									

# Events / Visiten

- Project Setup - Settings
  - Use surveys in this project?
  - (Scheduling module)

**Main project settings**

Use surveys in this project? ?

Use longitudinal data collection with defined events? ?

Arm 1: **Arm 1** [+Add New Arm](#)

Arm name: **Arm 1** [Rename Arm 1](#)

- Define my Events
  - V1 Einschluss
  - V2 Visite 2 - d30
  - V3 Visite 3 - d90

	Event #	Days Offset	Offset Range Min / Max	Event Name	Custom Event Label (optional)	Unique event name (auto-generated)
	1	1	-0/+0	V1 Einschluss		v1_einschluss_arm_1
	2	30	-5/+5	V2 Visite 2		v2_visite_2_arm_1
	3	90	-5/+5	V3 Visite 3		v3_visite_3_arm_1
<input type="button" value="Add new event"/>		<input type="text"/> Days	<input type="text"/> - <input type="text"/> + <input type="text"/>	<input type="text"/>	<input type="text"/>	
		<a href="#">Convert from other units</a>		Descriptive name for this event	Custom Event Label (optional) Example: [visit_date], [weight] kg	

- Designate Instruments for My Events

Data Collection Instrument	V1 Einschluss (1)	V2 Visite 2 (2)	V3 Visite 3 (3)
Demographics	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anamnese	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Anamnese Followup (survey)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



- Übersicht über die Records, Events und Instruments

Record ID	V1 Einschluss		V2 Visite 2	V3 Visite 3
	Demographics	Anamnese	Anamnese Followup	Anamnese Followup
<u>1</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
<u>2</u>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<u>3</u>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

## Record ID 1

- Übersicht über Events und Instruments für einen Record

Data Collection Instrument	V1 Einschluss	V2 Visite 2	V3 Visite 3
Demographics	<input checked="" type="radio"/>		
Anamnese	<input type="radio"/>		
Anamnese Followup (survey)		<input checked="" type="radio"/>	<input type="radio"/>
Delete all data on event:	<input type="checkbox"/>	<input type="checkbox"/>	

# Surveys

- Setup: Use surveys in this project?
- Instrument im Online Designer: Enable as survey
- Data Input – rechts oben: Survey Options
- Open Survey
- Survey Access or QR Code

**Main project settings**

Use surveys in this project?

Use longitudinal data collection with defined events?

**Survey options**

- Open survey
- Log out +  Open survey
- Compose survey invitation
- Survey Access Code and QR Code

## Anamnese



Please complete the survey below.

Thank you!

<b>Größe</b>	<input type="text"/>
	cm
<b>Gewicht</b>	<input type="text" value="Gewicht in kg"/>
<b>BMI - Body Mass Index</b>	<input type="text"/>
<b>BSA - Body Surface Area</b>	<input type="text"/>
<b>Nehmen Sie Medikamente ein?</b>	<input type="radio"/> Ja <input type="radio"/> Nein
	<input type="button" value="reset"/>
<input type="button" value="Submit"/>	

# Survey Access, QRCode


- QR Code  
Scannen mit iPad
- SAC verschicken
  - Print
  - SMS
  - Telefon

 **Survey Access Code or  QR Code** ✕

Survey title: **"Anamnese"**

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.

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 **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:

2.) Then enter this code:


— 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.

 **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.



Wie viel wiegen Sie aktuell?  
zum Vergleich:

Wie viel wiegen Sie aktuell?  
zum Vergleich:

- erste Visite: 60
- letzte Visite: 63

<li> erste Visite: [v1\_einschluss\_arm\_1] [an\_gewicht]

<li> letzte Visite: [previous-event-name] [anfu\_gewicht]

**@DEFAULT** - Sets a field's initial value

**@HIDDEN @HIDDEN-SURVEY @HIDEBUTTON** - hides the field on the survey page, entry form

**@MAXCHECKED** - allows a checkbox field to have a maximum number of checkboxes that can be checked.

**@NOW** - e.g. 2017-08-01 12:34:56

**@TODAY** - e.g. 2017-08-01

**@READONLY, @READONLY-SURVEY** - e.g. Patient-ID, Chiffre

**@USERNAME** - Charite-Alias

**@PLACEHOLDER** - e.g. @PLACEHOLDER='mmHg', @PLACEHOLDER='Temperatur in °C'

**[event-name]** - (longitudinal only) The current event

**[event-label]** - (longitudinal only) The current event

**[previous-event-name]** - (longitudinal only)

The event (unique event name) that occurs immediately before the current event

- Alle Instruments erstellt?
- Alle Instruments getestet?
- Eventuell schon Records mit echten Daten?
- (Umzug auf den Produktions-Server)
- Umschalten in den Produktionsmodus
- site\_admin
- Beginn der Studie!
- Änderungen an Items ist eingeschränkt!

## Move Project To Production Status?

Are you sure you wish to leave the DEVELOPMENT stage? If you proceed, the project will be moved to PRODUCTION status so that real data may be collected. If you select the 'Delete ALL data' option below, all current collected data, calendar events, and uploaded documents will be deleted, otherwise all will remain untouched as the project is moved to production.

★ Have you checked the [Check For Identifiers](#) page to ensure all identifier fields have been tagged?

### Keep existing data or delete?

- Keep ALL data saved so far.
- Delete ALL data, calendar events, documents uploaded for records/responses, survey responses (if applicable), and any logging events pertaining to data collection.

Once in production, you will not be able to edit the project fields in real time anymore. However, you can make edits in Draft Mode, which will be auto-approved or else might need to be approved by a REDCap administrator before taking effect.

YES, Move to Production Status

Cancel

# Änderungen in Produktion

Variable Name	Section Header	Field Type	Field Label	Choices or Calculations
schmerzen		radio	In den letzten 7 Tagen: Wie stark waren Ihre Schmerzen im Allgemeinen?	0, keine 1, leicht 2, mäßig 3, stark 4, sehr stark 1, keine 2, leicht 3, mäßig 4, stark 5, sehr stark *Possible label mismatch because label changes. Check if okay. *Data MIGHT be lost due to deleted choice(s) Compare

## Choices Change Summary

The table below lists the values and labels of each choice for this multiple choice field, displaying which choices have been added, deleted, or remain unchanged in Draft Mode. Also, the column on the far right displays how many records have a saved value for the given choice.

Existing Value	Existing Label	Draft Value	Draft Label	Status	Number of records having this value
1	keine	1	leicht	Altered	0
2	leicht	2	mäßig	Altered	1
3	mäßig	3	stark	Altered	1
4	stark	4	sehr stark	Altered	1
5	sehr stark	-	-	Removed	0
-	-	0	keine	Added	-

- Änderungen an Items müssen vom Admin freigegeben werden
- REDCap zeigt Veränderungen in Tabelle
- Welche Daten sind betroffen

# Benutzermanagement

- Benutzer müssen einmal pro Server (Instanz) angelegt werden
- site\_admin
- Zusätzlich zu jedem Projekt
- Es können LDAP-Aliase verwendet werden
- Es können externe Benutzer als table-based hinzugefügt werden
- Benutzer-Rollen
- (Data Access Groups)

### Adding new user "nobody"

You may set the rights for the user below by checking the boxes next to the application tools to which you wish to grant them access. You may also grant them or deny them access to individual data collection instruments, if so desired. To save your selections, click the "Add user" button at the bottom of the page.

### Adding new user "nobody"

#### Basic Rights

📅 Expiration Date (if applicable)  (D.M.Y)

Highest level privileges:

- 🔧 Project Design and Setup
- 👤 User Rights
- 👥 Data Access Groups

Privileges for data exports (including PDFs and API exports), reports, and stats:

- 📄 Data Exports  No Access  
\* De-identified means that all free-form text fields will be removed, as well as any date/time fields and Identifier fields.  
 De-Identified\*  
 Remove all tagged Identifier fields  
 Full Data Set
- 🔍 Add/Edit/Organize Reports   
Also allows user to view ALL reports (but not necessarily all data in the reports)
- 📊 Stats & Charts

Other privileges:

- 👤 Survey Distribution Tools
- 📅 Calendar & Scheduling
- 📄 Data Import Tool
- 🔍 Data Comparison Tool
- 📄 Logging

#### Data Entry Rights

*NOTE: The data entry rights \*only\* pertain to a user's ability to view or edit data on a web page in REDCap (e.g., data entry forms, reports). It has no effect on data imports or data exports.*

	No Access	Read Only	View & Edit	Edit survey responses
Demographics (survey)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Anamnese (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>
Anamnese Followup (survey)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>
Laborparameter	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
Nacho Craving Index Survey (survey)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>
Tat Multipate Labordaten	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Medical History Unige	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Diabetes Distress Scale DDS	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
UCI ASCC Stroke Survey	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	

#### External Modules: Configuration Permissions

Privileges may be defined regarding whether the user can set or modify the configuration of an External Module that has been enabled on this project. Below are the currently enabled modules. NOTE: Only administrators may modify the module configuration permissions here.

- Form Render Skip Logic\*

\*Permissions based on user's Project Design/Setup rights

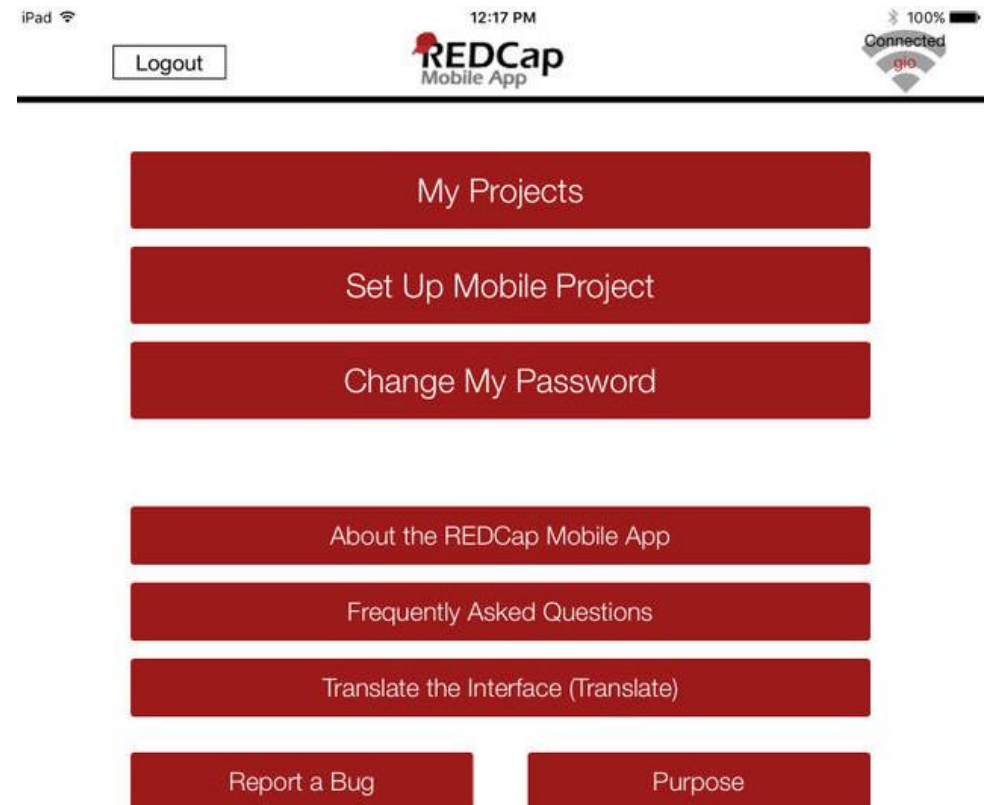
# Rollen für Benutzer

Name der Rolle (Zum Bearbeiten Rollenname klicken)	Nutzername oder Nutzer in der Rolle (Klick Nutzername zum bearbeiten oder für Rollenzuweisung)	Ablauf (Klick Datum zum Bearbeiten)	Projekt Design und Konfig- uration	Nutzer	Zugriffsgrup	Datenexport Tool
—	<b>ahetable</b> (A Hetey)	nie	✗	✗	✗	✗
—	<b>detscript</b> (DET System-Account) 🔑 API Token	nie	✗	✗	✗	Anonymisiert
—	<b>epix</b> (E-PIX System-Account) 🔑 API Token	nie	✗	✗	✗	Vollständig
—	<b>report-export-script</b> (Export System- Account) 🔑 API Token	nie	✗	✗	✗	Vollständig
<b>Datenmanagement</b>	[redacted] 🔑 API Token	nie	✓	✗	✗	Vollständig
<b>Dokumentar</b>	[redacted]	nie	✗	✗	✗	Vollständig
<b>Echo Core Lab</b>	[redacted]	nie	✗	✗	✗	Anonymisiert
<b>Gesundheitsbezogene Lebensqualität PROMIS</b>	[redacted]	nie	✓	✗	✗	✗








# REDCap Mobile App

- die Nutzung der App muss in Userrights erlaubt werden
- alle Daten können synchronisiert werden  
Achtung: Sicherheitsproblem!
- Datenerfassung komplett offline möglich  
(Wüste, Brandenburg, Mond)
- Synchronisierung, wenn Datenverbindung wieder vorhanden
- Apple App Store, Google Play Store
- <https://projectredcap.org/software/mobile-app/>



# Rechte REDCap Mobile App

 API	<input type="checkbox"/> API Export
<a href="#">What is the REDCap API?</a>	<input type="checkbox"/> API Import/Update
<b>Settings pertaining to the REDCap Mobile App:</b>	
 REDCap Mobile App	<input type="checkbox"/> Allows user to collect data offline in the mobile app
<a href="#">What is the REDCap Mobile App?</a>	
Allow user to download data for all records to the app?	<input type="checkbox"/>
<b>Settings pertaining to project records:</b> <a href="#">Explain the</a>	
 Create Records	<input checked="" type="checkbox"/>
 Rename Records	<input type="checkbox"/>
 Delete Records	<input type="checkbox"/>

## Confirm Mobile App Privileges

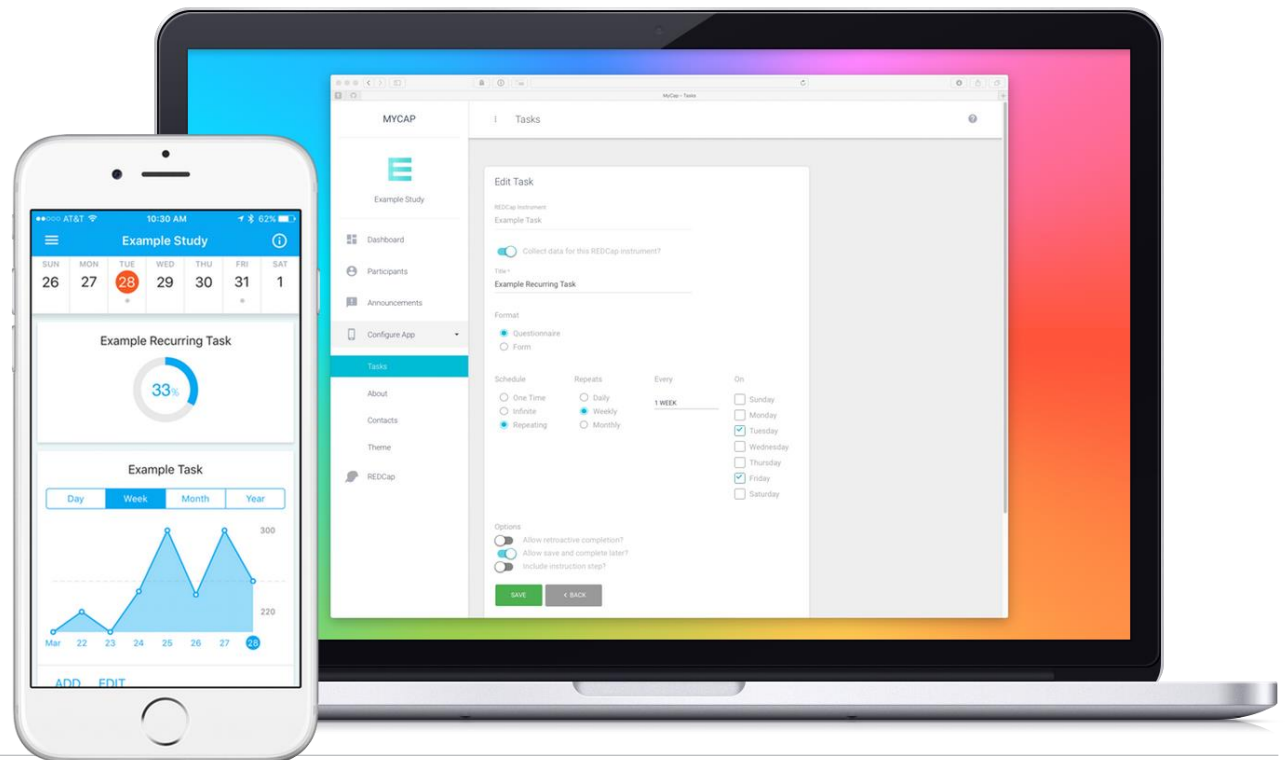
Before enabling REDCap Mobile App privileges for this user, you must confirm that you understand the following things. Please be advised that regardless of this user's API export/import rights and Data Export rights, **when the user uses the mobile app, their mobile app privileges will automatically give the user 'Full Data Set' rights for Data Exports (if they have 'download data' privileges for the mobile app) and will give the user both API export and API import rights \*ONLY FOR REQUESTS MADE BY THE MOBILE APP\***. When not using the mobile app, the user's rights will behave normally as they have been defined. NOTE: Since the mobile app requires full data export access and also requires the ability to make API exports and imports, the mobile app's privileges trump the normal user privileges during mobile app operations with the REDCap server. **However, unless a person is granted the extra user privilege to 'download data for all records to the app', then they will not be able to download any data to the app from the project on the REDCap server.**

Yes, I understand

Cancel

# MyCap App

- für Dateneingabe des Patienten gedacht
- UI frisch, aber noch in der Entwicklung
- mehr Info unter <https://projectmycap.org/>



- Alle Daten
- Instruments / Events
- Report

My Reports & Exports		
	Report name	View/Export Options
A	<b>All data</b> (all records and fields)	<a href="#">View Report</a> <a href="#">Export Data</a> <a href="#">Stats &amp; Charts</a>
B	<b>Selected instruments and/or events</b> (all records)	<a href="#">Make custom selections</a>
	<a href="#">+ Create New Report</a>	

# Data Export, Report & Stats

## Data Exports, Reports, and Stats

 [VIDEO: How to use Data Exports, Reports, and Stats](#)

[+ Create New Report](#)

[My Reports & Exports](#)

[Other Export Options](#)

[View Report: ah01 - Demographics V1](#)

**Number of results returned: 5**

Total number of records queried: 6

(\*records\* = total available data across all designated events)

[Stats & Charts](#)

[Export Report](#)

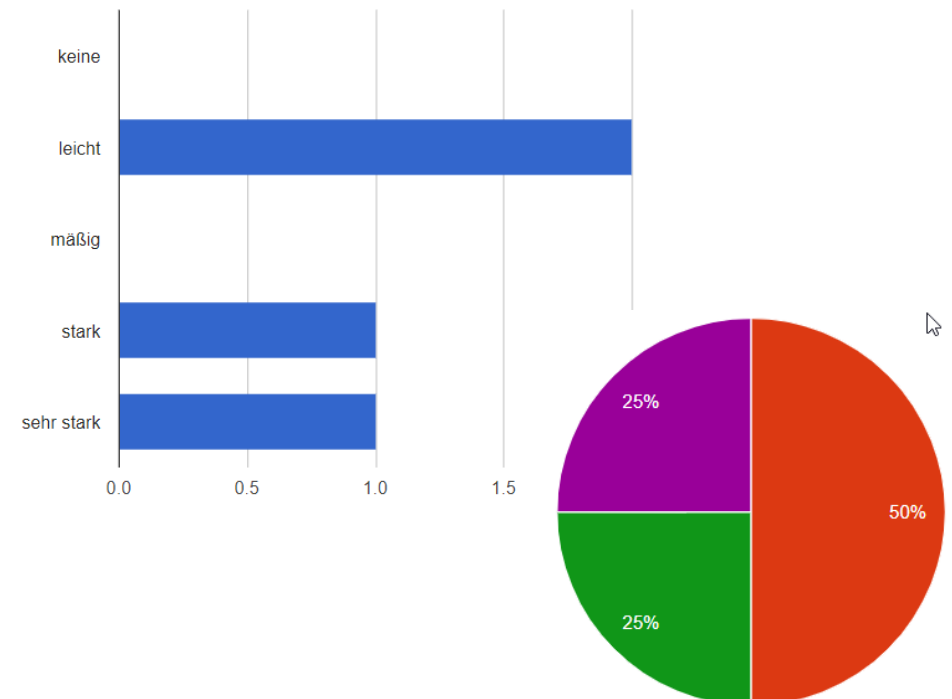
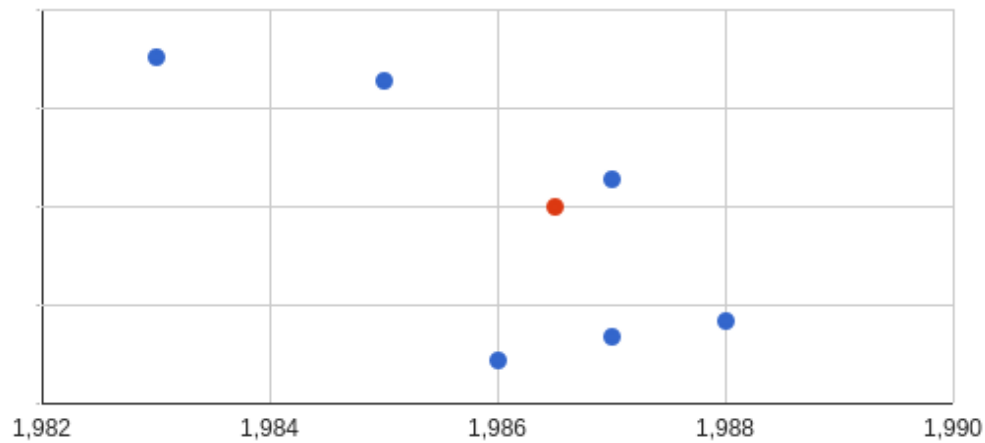
[Print Page](#)

[Edit Report](#)

Counts/frequency: keine (0, 0,0%), leicht (2, 50,0%), mäßig (0, 0,0%), stark (1, 25,0%), sehr stark (1, 25,0%)

**Lowest values:** 1983, 1985, 1986, 1987, 1987

**Highest values:** 1985, 1986, 1987, 1987, 1988










# Daten Export

Record ID record_id	Event Name redcap_event_name	Datum der Aufnahme date_demographics	Chiffre chiffre	Geburtsjahr geburtsjahr	Geschlecht geschlecht	Sind Sie schwanger? schwanger_yn	In den letzten 7 Tagen: Wie stark waren Ihre Schmerzen im Allgemeinen? schmerzen	Herkunftsland herkunftsland	Complete? demographics_complete	Größe an_groesse	Gewicht an_gewicht	BMI - Body Mass Index an_bmi	BSA - Body Surface Area an_bsa
<u>1</u>	V1 Einschluss	31-08-2018	878787	1988	weiblich (1)	Nein (0)	leicht (2)	Chile (CHL)	Complete (2)	190	98	27.1	2.3
<u>2</u>	V1 Einschluss	31-08-2018	777777	1985	männlich (0)		leicht (2)	Costa Ric (CRI)					
<u>3</u>	V1 Einschluss	31-08-2018	666666	1987	weiblich (1)	Ja (1)	stark (4)	Chad (TC)					
<u>4</u>	V1 Einschluss	11-10-2018	231243	1986	weiblich (1)	Ja (1)	sehr stark (5)	Canada (C)					

- Report wird als Tabelle angezeigt
- Verschiedene Export-Formate
- CSV für Export/Import

**Choose export format**

-  CSV / Microsoft Excel (raw data)
-  CSV / Microsoft Excel (labels)
-  SPSS Statistical Software
-  SAS Statistical Software
-  R Statistical Software
-  Stata Statistical Software
-  CDISC ODM (XML)

# CSV comma separated values

- Data Dictionary
- Data Export & Import
- Lesen & schreiben:  
LibreOffice / OpenOffice

Variable / Field Name	Form Name	Section Header	Field Type	Field Label
record_id	demographics		text	Record ID
date_demographics	demographics		text	Datum der Aufnahme
geburtsjahr	demographics		text	Geburtsjahr
geschlecht	demographics		radio	Geschlecht
schwanger_yn	demographics		radio	Sind Sie schwanger?
anfu_gewicht	anamnese_followup		text	Wie viel wiegen Sie aktuell?
anfu_bmi	anamnese_followup		calc	BMI - Body Mass Index
anfu_bsa	anamnese_followup		calc	BSA - Body Surface Area
lab_blutdatum	laborparameter		text	Wann erfolgte die Blutentnahme?
lab_lbb_nr	laborparameter		text	Auftragsnummer Labor

**Text Import** - [REDCapIntroTMFAh\_DataDictionary\_2019-10-26.csv]

Character set: **Unicode (UTF-8)**

Language: **German (Germany)**

From row: **1**

**Separator Options**

Fixed width  Separated by

Tab  Comma  Semicolon  Space  Other

Merge delimiters String delimiter: **"**

**Other Options**

Format quoted field as text  Detect special numbers

**Fields**

Column type: **Standard**

Standard	Standard	Standard
1 Variable / Field Name	Form Name	Section Header
2 record_id	demographics	
3 date_demographics	demographics	
4 geburtsjahr	demographics	
5 geschlecht	demographics	
6 schwanger_yn	demographics	

```

1 "Variable / Field Name","Form Name","Section Header"
2 record_id,demographics,,text,"Record ID",,,,,,,,,,
3 date_demographics,demographics,,text,"Datum der Aufnahme"
4 geburtsjahr,demographics,,text,Geburtsjahr,,,"nur das
5 geschlecht,demographics,,radio,Geschlecht,"m, männlich"
6 schwanger_yn,demographics,,radio,"Sind Sie schwanger?"
7 chiffre,demographics,,text,Chiffre,,,,,,,,,,,,,
8 schmerzen,demographics,,radio,"In den letzten 7 Tagen
9 Wie stark waren Ihre Schmerzen im Allgemeinen?","1, 2, 3, 4, 5"
10 herkunftsland,demographics,,dropdown,Herkunftsland,"1, 2, 3, 4, 5"
11 an_groesse,anamnese,,text,Größe,,cm,number,50,300,,
    
```

# Data Dictionary

REDCapIntroTMFAh\_DataDictionary\_2019-10-

File Edit View Insert Format Styles Sheet Data Tools Window Help

Liberation Sans 10

E7 | f, Σ = | Wie viel wiegen Sie aktuell?

	A	B	C	D	E	F
1	Variable / Field Name	Form Name	Section Header	Field Type	Field Label	Choices, Calculated
2	record_id	demographics		text	Record ID	
3	date_demographic	demographics		text	Datum der Aufnahme	
4	geburtsjahr	demographics		text	Geburtsjahr	nur d
5	geschlecht	demographics		radio	Geschlecht	m, männlich   f, weiblich
6	schwanger_yn	demographics		radio	Sind Sie schwanger?	1, Ja   0, Nein
7					Wie viel wiegen Sie aktuell? zum Vergleich: <li>first-event-name: [first-event-nan <li>v1_einschluss_arm_1: [v1_einsc <li>previous-event-name: [previous- <li>first-event-name: [first-event-nan kg	
8	anfu_gewicht	anamnese followup		text		
9	anfu_bmi	anamnese followup		calc	BMI - Body Mass	round([anfu_gewicht]/([a
10	anfu_bsa	anamnese followup		calc	BSA - Body Surface	round(sqrt([anfu_groess
11	lab_blutdatum	laborparameter		text	Wann erfolgte die Blutabnahme?	
12	lab_lbb_nr	laborparameter		text	Auftragsnummer Labor Berlin	

heteya\Downloads\REDCapBIHWorkShopSurvey\_DataDictionary\_2019-02-16.csv

```

1 "Variable / Field Name", "Form Name", "Section Header", "
2 record_id, bih_academy_workshop_basicadvanced, , text, "Re
3 ws_teil, bih_academy_workshop_basicadvanced, "Feedback B
4 rating_basic, bih_academy_workshop_basicadvanced, , radio
5 remarks_basic, bih_academy_workshop_basicadvanced, , note
6 rating_advanced, bih_academy_workshop_basicadvanced, , ra
7 remarks_advanced, bih_academy_workshop_basicadvanced, , n
8 remarks_insg2, bih_academy_workshop_basicadvanced, , note
9 usergroup_v2, bih_academy_workshop_basicadvanced, "REDCa
10 ws_part, bih_academy_workshop, "Feedback. BIH Academy. Wor
11 rating_1, bih_academy_workshop, , radio, "Teil 1. - Rating"
12 remarks_1, bih_academy_workshop, , notes, "Teil 1. - Anmerk
13 rating_2, bih_academy_workshop, , radio, "Teil 2. - Rating"
14 remarks_2, bih_academy_workshop, , notes, "Teil 2. - Anmerk
  
```

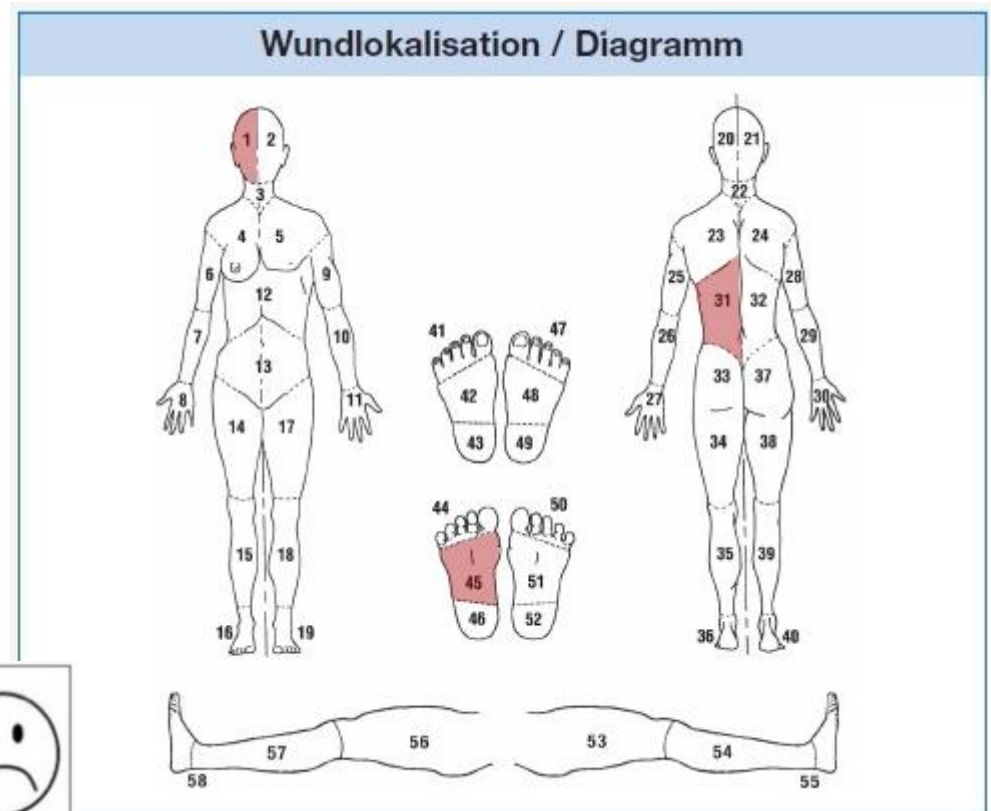
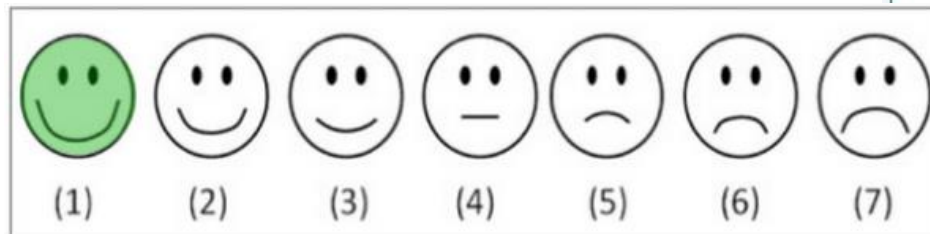
```

1 "Variable / Field Name", "Form Name", "Sect
2 record id, bih_academy_workshop, , text, "Rec
3 ws_part, bih_academy_workshop, "Feedback. BI
4 rating_1, bih_academy_workshop, , radio, "Teil
5 remarks_1, bih_academy_workshop, , notes, "Tei
6 rating_2, bih_academy_workshop, , radio, "Teil
7 remarks_2, bih_academy_workshop, , notes, "Tei
8 rating_3, bih_academy_workshop, , radio, "Teil
9 remarks_3, bih_academy_workshop, , notes, "Tei
10 usergroup, bih_academy_workshop, , checkbox,
11 remarks_insg, bih_academy_workshop, , notes,
  
```



# REDCap Module

- REDCap Erweiterungen
- Plugins/Extensions/Hooks
- Externe Module



l) Im Allgemeinen ist meine momentane Lebensqualität:

ausge-  
zeichnet

sehr gut

gut

weder gut  
noch  
schlecht

schlecht

sehr  
schlecht

äußerst  
schlecht

# REDCap Plugins

- PHP Skript
- Admin Account
- Zugriff auf REDCap PHP-Funktion

AhTest Turanga Items&Forms | REDCap - Google Chrome

QR-Codes für Record-ID 2 / BeLOVE-ID BLV-4016854

belove_psn BLV-4016854
survey_id BLV-S-9661328
labor_id BLV-L-5946837
cantab_id BLV-CB-8001834

BeLOVE v5 eCRF | REDCap - Google Chrome

Charité Berlin  
Clinical Research Unit

### BeLOVE

BeLOVE Einschlüsse nach Krankheit  
(Standort und Zeit)

Var1	Freq
ED	14
KA	23
KI	16
NS	46

Einschlüsse nach Krankheiten

### Arms

Einschlüsse nach Krankheiten:

as.factor(Var1)	count
ED	14
KA	23
KI	16
NS	46

Show  entries

## Module title and description

Date Added

Downloads


### Email Alerts (email\_alerts\_v2.1.4) [View on GitHub](#)

*Description:* Allows users to construct and send customized email alerts to one or more recipients, in which the emails are triggered when a form/survey is completed and optionally based on conditional logic. The user interface enables customized options such as rich text, data piping, and file attachments.

*Author:* [Eva Bascompte Moragas](#) (Vanderbilt University Medical Center)

2019-01-30

2,312

 Download

Already downloaded


### Save Survey PDF to a Field (save\_survey\_pdf\_to\_field\_v1.1.2) [View on GitHub](#)

*Description:* This REDCap module generates a PDF of a survey upon completion and saves it to a REDCap file upload field. It is configured at the project level with source instrument/target field pairs. In the event of save errors, the PDF is sent to a backup email address.

*Authors:* [Dileep Rajput](#) (University of Florida - CTSI), [Philip B Chase](#) (University of Florida - CTSI), [Taryn Stoffs](#) (University of Florida - CTSI), [Tiago Bember](#) (University of Florida - CTSI), [Marly Cormar](#) (University of Florida - CTSI)

2018-08-24

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 Download

### Custom Survey Landing Page (custom\_survey\_landing\_page\_v1.0.2) [View on GitHub](#)

*Description:* Creates a custom landing page that can be used for manual survey code entry (e.g. when sending an email invitation, snail mail invitation, or when bookmarking a landing page on a table for kiosk use.)

*Authors:* [Andrew Martin](#) (Stanford University), [Jae Lee](#) (Stanford University)

2018-07-13

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# DET: Data Entry Trigger

- Optionale Erweiterung in REDCap
- DET-Skript wird beim Speichern in REDCap getriggert
- POST-Request an DET-Skript
- Skript liest/schreibt in BeLOVE (API)
- Versendet Emails, Logging

## Additional customizations

- Data Entry Trigger**  
The Data Entry Trigger is an advanced feature. It provides a way for REDCap to trigger a call to a remote web address (URL), in which it will send a HTTP POST request to the specified URL whenever \*any\* record or survey response has been created or modified on \*any\* data collection instrument or survey in this project (it is \*not\* triggered by data imports - including API imports and Mobile App imports - but only by normal data entry on surveys and data entry forms). Its main purpose is for notifying other remote systems outside REDCap at the very moment a record/response is created or modified, whose purpose may be to trigger some kind of action by the remote website, such as making a call to the REDCap API.  
[View more details](#)

URL of website:

Example: [https://www.mywebsite.com/redcap\\_trigger\\_receive/](https://www.mywebsite.com/redcap_trigger_receive/)

Example: [/det/index.php](#)

## REDCap Instrument

POST Request



API-Requests  
Variablen r/w

## DET-Skript



Email mit Link

# API-Playground

- Zugriff mit externem Programm auf REDCap Daten
- API: Programmierschnittstelle
- API-Token zur Authentifizierung
- API-Playground: Skripts interaktiv erstellen



Displayed in the box below is the code you would use to execute this API re

```
format: 'json',  
'returnFormat': 'json'  
}  
ch = pycurl.Curl()  
ch.setopt(ch.URL, 'https://redcap.charite.de/demo/ap  
ch.setopt(ch.HTTPPOST, data.items())  
ch.setopt(ch.WRITEFUNCTION, buf.write)  
ch.perform()  
ch.close()  
print buf.getvalue()  
buf.close()
```

Select an API method from the drop-down list below, after which it will load any other options that are specific to that method.

API Method: Export Records

Format: JSON

Type: flat

Records: 1  
2  
3  
4  
5

Fields: an\_bmi  
an\_bsa  
an\_gewicht  
an\_groesse  
an\_medikamente

Forms: anamnese  
anamnese\_followup  
demographics  
laborparameter\_a  
laborparameter\_b

Events: v1\_einschluss\_arm\_1  
v2\_visite\_2\_arm\_1  
v3\_visite\_3\_arm\_1

Raw Labels: raw

Raw Headers: raw

Checkbox Labels: false

Survey Fields: false

Data Access Groups: false

Filter Logic:

Records Created or Modified in Timespan (begin)  
(YYYY-MM-DD HH:MM:SS format):

Records Created or Modified in Timespan (end)  
(YYYY-MM-DD HH:MM:SS format):

Errors: JSON

- Items / Instruments
  - kopieren, importieren
  - REDCap Shared Library
- Data Dictionary
  - Items verschieben
  - Änderungen automatisieren
- Daten Import
- Externe Module
  - Repository of External Modules
- API-Beispiel
  - Daten-Export und Visualisierung mit RStudio



# VIELEN DANK!

# KONTAKT

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**www.bihealth.org**  
**www.charite.de**