

REDCAP MOBILE (301)

ITHS

Institute of **Translational** Health Sciences
ACCELERATING RESEARCH. IMPROVING HEALTH.



Learning objectives

□ REDCap Mobile App

Uses

Setup

Management

Best Practices

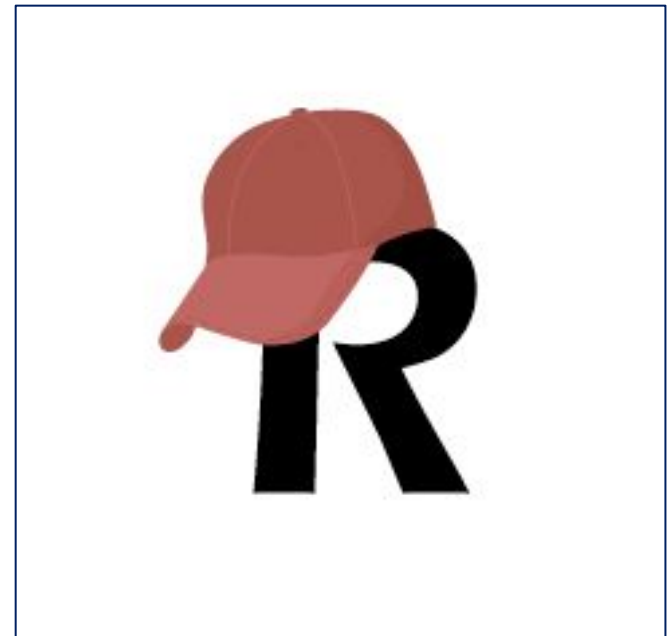
□ MyCap

Uses

Security

Features

Best Practices



ITHS' Focus

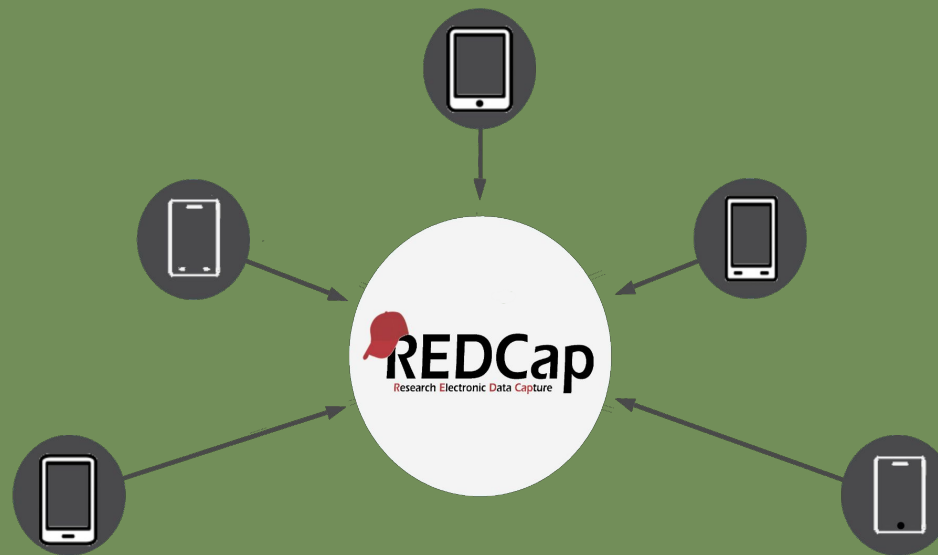
- Speeding science to clinical practice for the benefit of patients and communities.
- Promotes translation of scientific discovery by:
 - ❑ Fostering innovative research
 - ❑ Cultivating multi-disciplinary partnerships
 - ❑ Training the next generation of researchers
- More information: www.iths.org

Laboratory

Clinic

Community





REDCap Mobile App

- *Offline data collection*
- *Study devices used by study staff*

MyCap

- *Offline and internet connected data collection*
- *Participants device used directly by participants*

Mobile App Uses

- *Tablets used by study staff to collect participant data*
- *Offline data collection option*
 - *Community outreach events*
 - *Participant home visits*
 - *International studies with unreliable internet*
- *Sync data back to REDCap servers once internet is established*



Mobile App setup

Setup your project

- *Longitudinal or classic*
 - *Be careful with internet dependent features*
-

Request or generate an API token

- *Make sure you have the appropriate user rights*
 - *Takes 1 business day (Request) or is instantaneous (Generate)*
 - *API token can be reused*
-

Load the project into the app

- *Download the app onto a mobile device*
- *Setup an admin user*
- *Give camera permissions to the app*
- *Make sure the tablet is connected to the web*
- *Scan the QR code in the Mobile App menu*

Mobile App Online Management

Dashboard

- *Disable connected devices*
 - *Assign "nicknames"*
 - *Overview of upload and downloads*
-

All App Activity

- *Overview of all the activity of all the connected devices*
-

Data dumps

- *Repository of emergency data dumps*
 - *Upload the data dump direct*
 - *Download CSV*
 - *In case of a manual merge*
-

App Logs

- *Repository of device specific log files*

Running a Mobile App

Refresh your data model

- *Get the latest version of the project*
 - *Optional download of existing records*
 - *Needed for successful sync later*
-

Data collection

- *Navigation takes a bit getting used to*
 - *No real search function*
 - *Secure the instrument*
 - *Collect data and save*
-

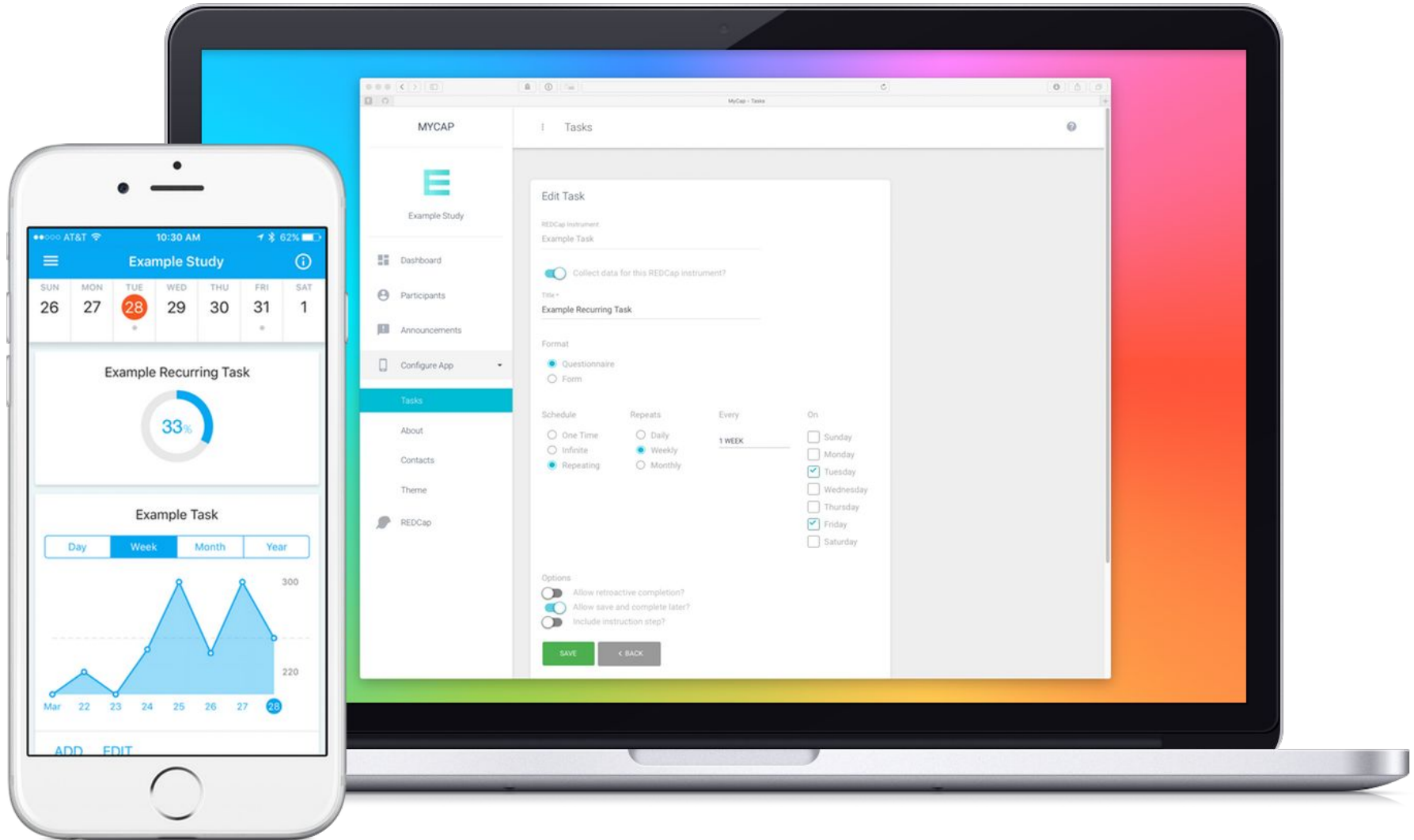
Syncing your data

- *Data models between app and web have to match*
- *Requires a stable internet connection*
 - *Can take a while when uploading files*
- *Do an emergency data dump in case of failure*

Mobile App – Best Practices

- *Keep instruments small*
 - *Under 500 variables*
- *Use the same devices if possible*
 - *Makes for easier troubleshooting*
- *Recommended tablets:*
 - *iPads*
 - *Samsung tablets*
 - *Google nexus*
- *To be avoided tablets:*
 - *Kindle Fire*
 - *Older tablets with limited resources*
- *Establish a sync schedule and a "refresh" schedule*
 - *To prevent manual merge*
- *Be prepared for troubleshooting*
- *Disable/uncouple unused tablets to prevent change management delays*

MyCap



MyCap

Uses / Reasons why?

Security

Charts and Graphs

Communication



Uses / Reasons why?

- ▶ Mobile App downloaded to participant's device
- ▶ Collect data that seamlessly syncs back to your REDCap database
- ▶ Flexible scheduling
 - ▶ One-time tasks
 - ▶ Repeating tasks
 - ▶ Permanent tasks
- ▶ Create active tasks
 - ▶ IOS only right now
 - ▶ Range of Motion, Tapping Speed, Fitness, etc.
 - ▶ <http://researchkit.org/docs/docs/ActiveTasks/ActiveTasks.html>

MyCap

Uses / Reasons why?

Security

Charts and Graphs

Communication



Security

- ▶ App requires separate passcode
- ▶ Face ID and Fingerprint passcode available on IOS
- ▶ Data encrypted on device
 - ▶ HIPAA compliant
 - ▶ Securely transmitted to REDCap



Enter passcode



MyCap

Uses / Reasons why?

Security

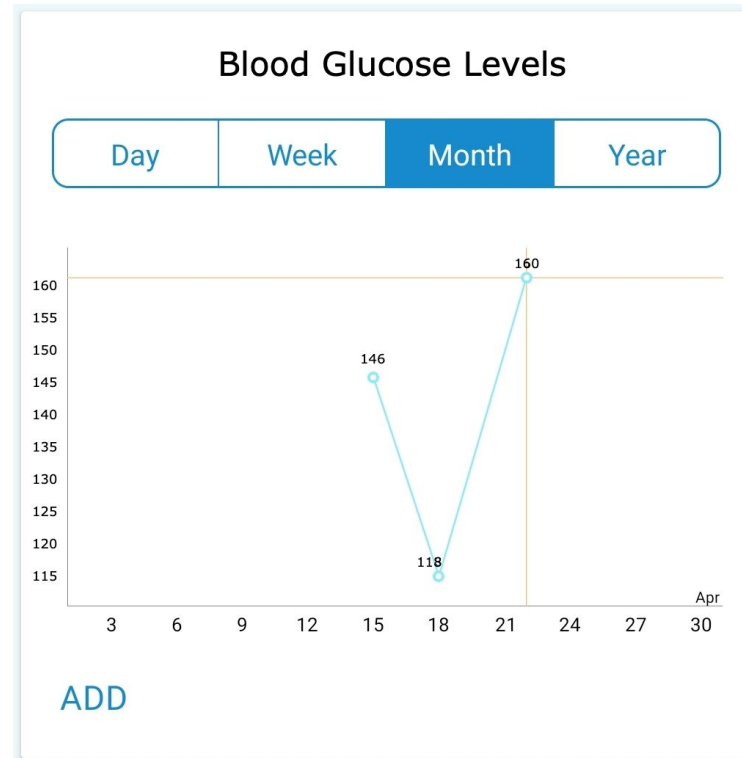
Charts and Graphs

Communication



Charts and Graphs

Participants can track progress



MyCap

Uses / Reasons why?

Security

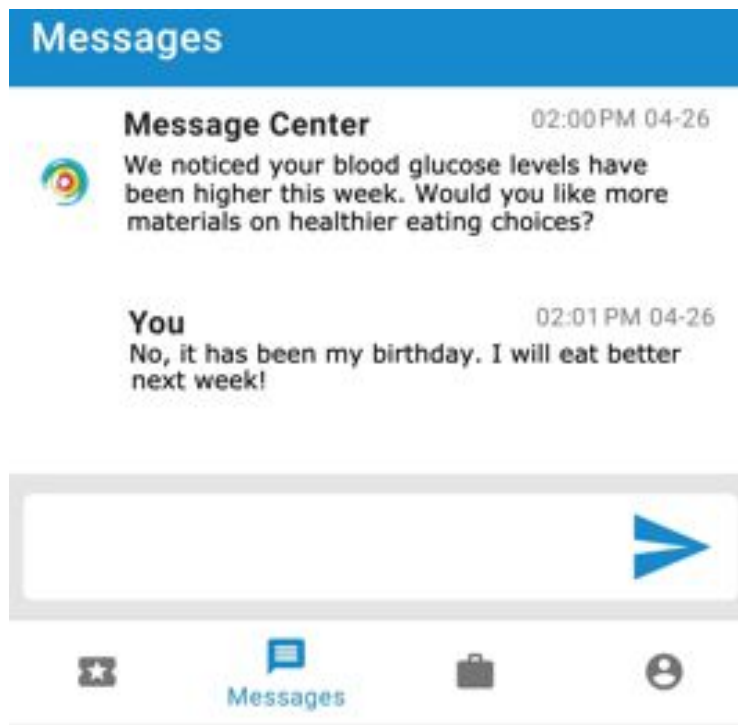
Charts and Graphs

Communication



Communication

- ▶ Send secure messages to individual participants
- ▶ Send announcements to all participants



MyCap– Best Practices

- *In-person enrollment to assist users in download of app and project*
- *Use short and uncomplicated instruments*
 - *No use of piping, smart variables, and some other more advanced REDCap functionality*
- *Single statement branching logic*
 - *i.e. [gender]='0'*
- *Avoid changes to instruments while in production*

Thank You

Questions?

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