

REDCAP MOBILE (301)



Learning objectives

- REDCap Mobile App
 - Uses
 - Setup
 - Management
 - Best Practices
- MyCap
 - Uses
 - Security
 - Features
 - Best Practices



ITHS Focus

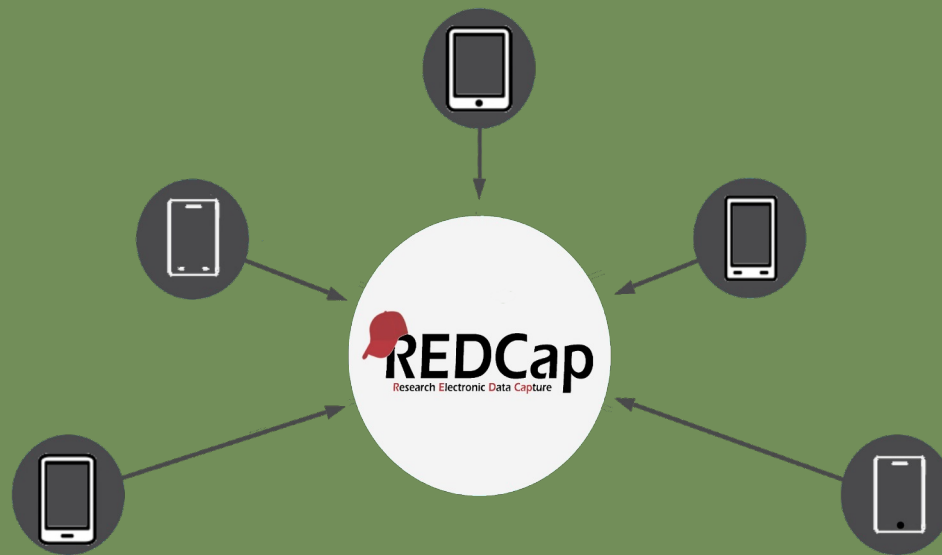
- Speeding science to clinical practice for the benefit of patients and communities.
- Promotes translation of scientific discovery by:
 - ❑ Fostering innovative research
 - ❑ Cultivating multi-disciplinary partnerships
 - ❑ Training the next generation of researchers
- More information: www.iths.org



Laboratory

Clinic

Community



REDCap Mobile App

- Offline data collection
- Study devices used by study staff

MyCap

- Offline and internet connected data collection
- Participants' devices, 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

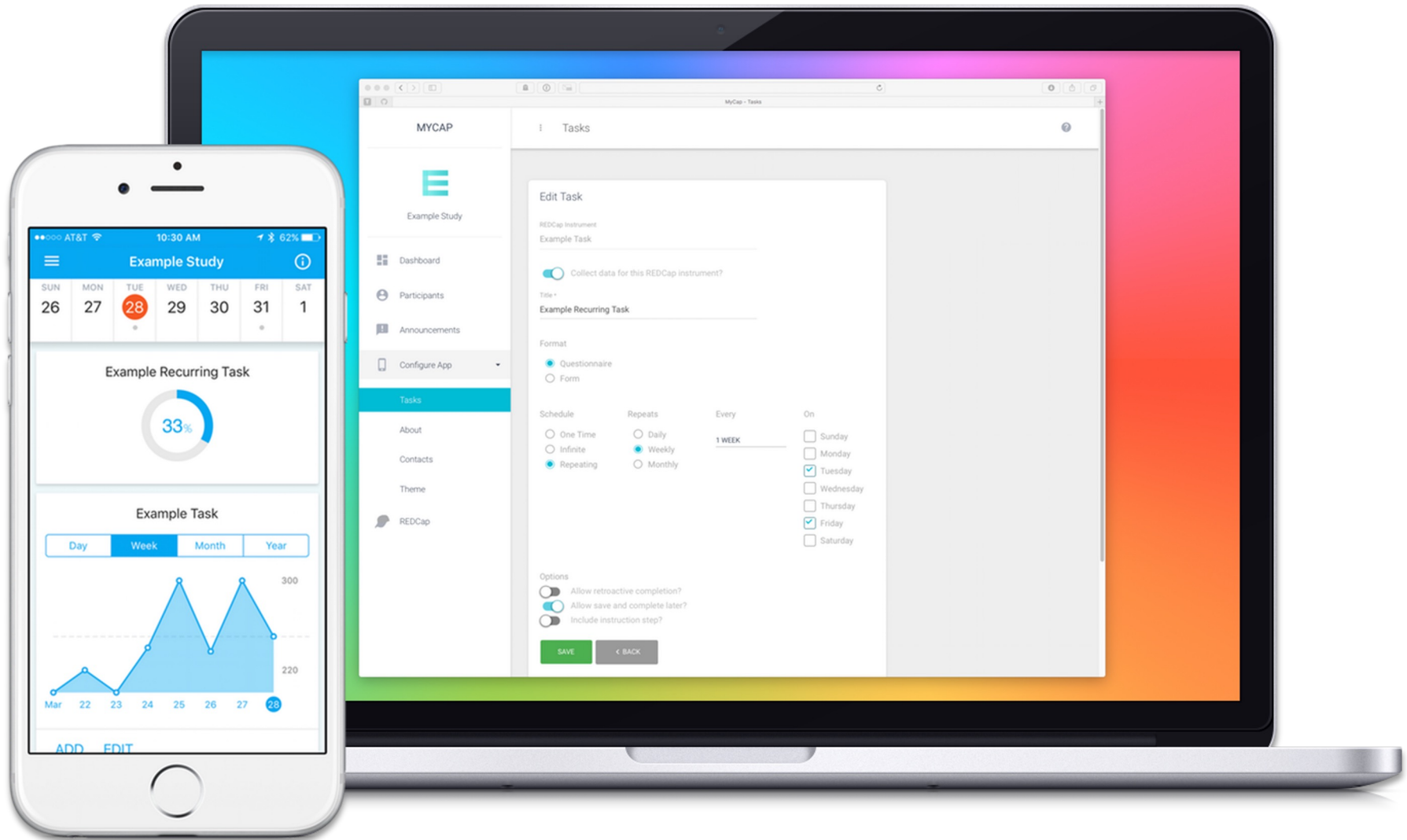
- Data models between app and web have to match
- Requires a stable internet connection
 - Can take a while when uploading files
- Do an emergency data dump in case of failure

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

Security

Charts and Graphs

Communication



Uses / Reasons

- 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

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



Uses / Reasons

Security

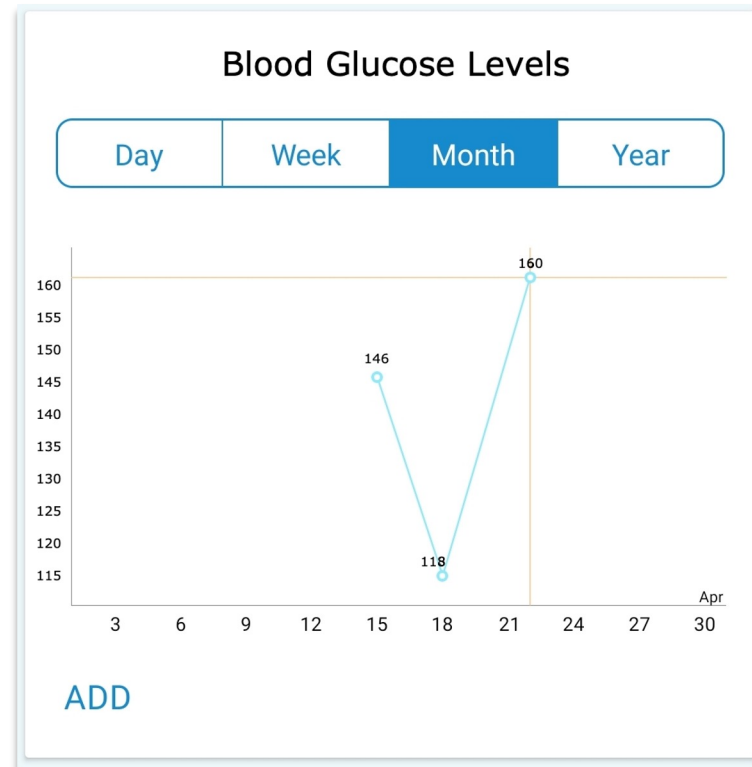
Charts and Graphs

Communication



Charts and Graphs

Participants can track progress



MyCap

Uses / Reasons

Security

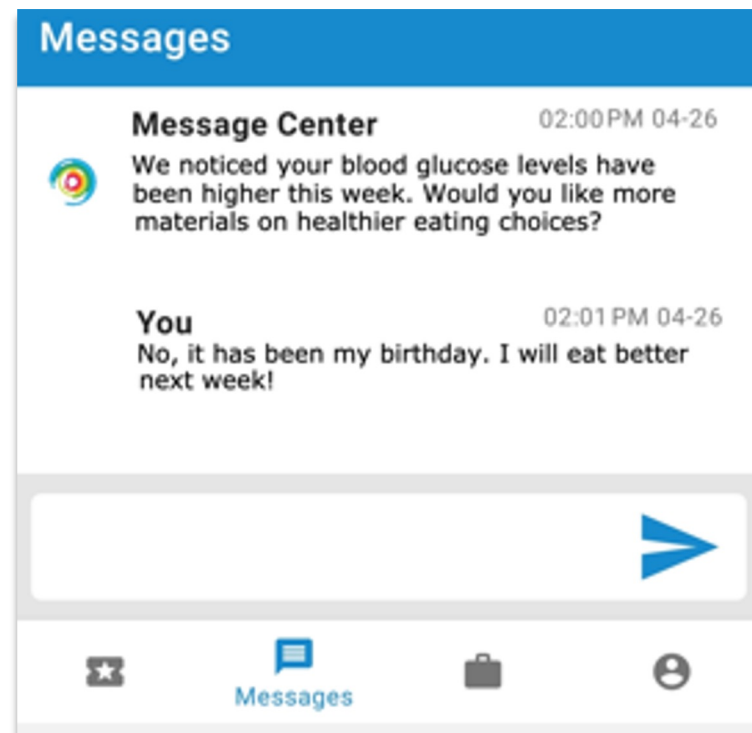
Charts and Graphs

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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