REDCap Mobile (301)

REDCap
Research Electronic Data Capture

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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
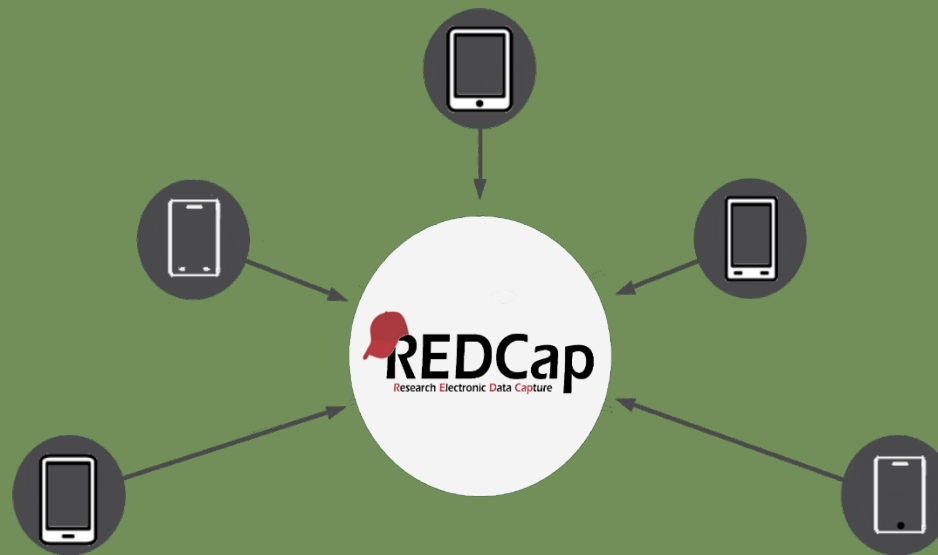
- More information: www.iths.org

Laboratory	Clinic	Community

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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*

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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*
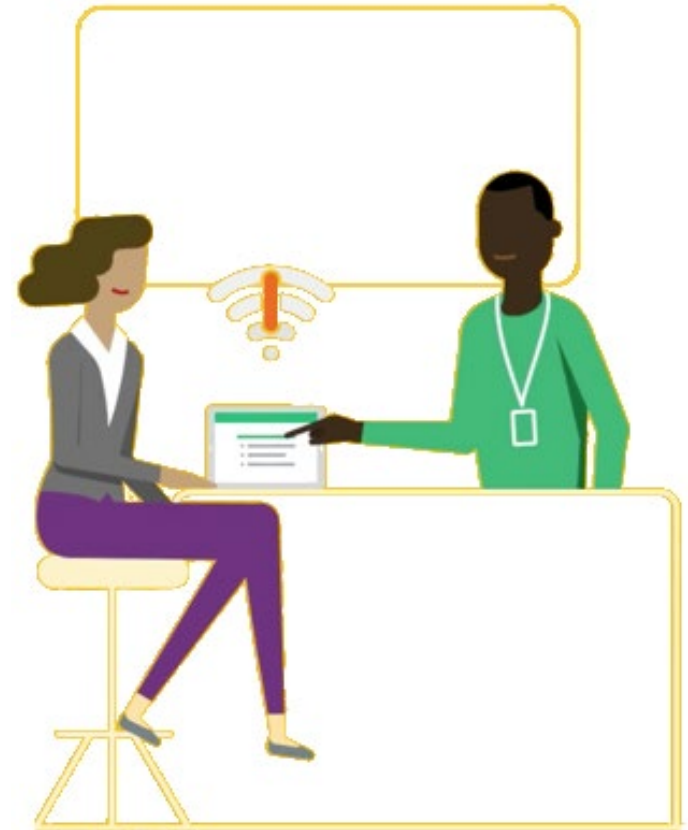
Mobile App setup

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 instantanous (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*

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Mobile App Online Management

Dashboard

- *Disable connected devices*
- *Assign "nick names"*
- *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*

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Running a Mobile App

Refresh your data model

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

Data collection

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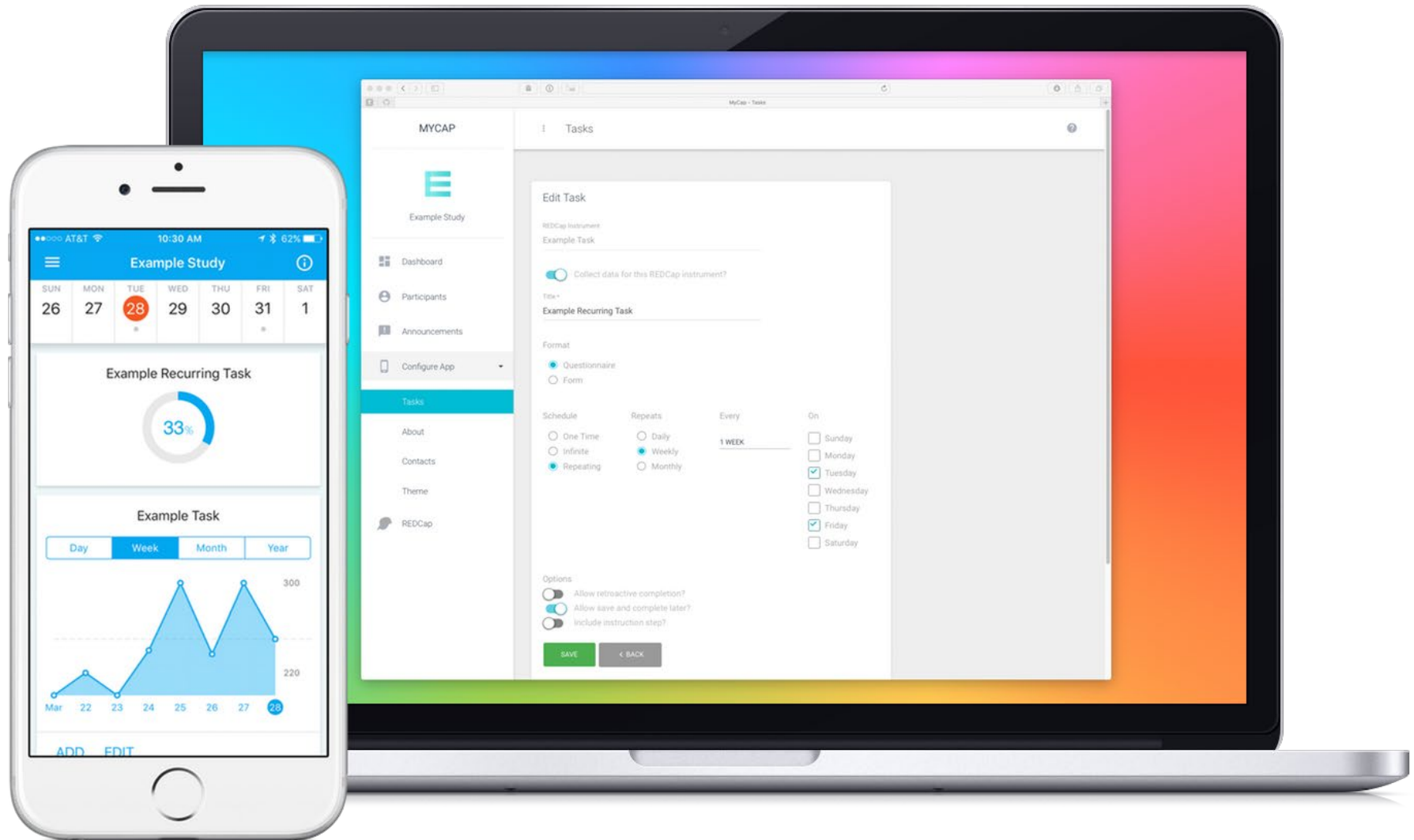- *Collect data and save*

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*

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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*

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MyCap

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10

MyCap

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

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11

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

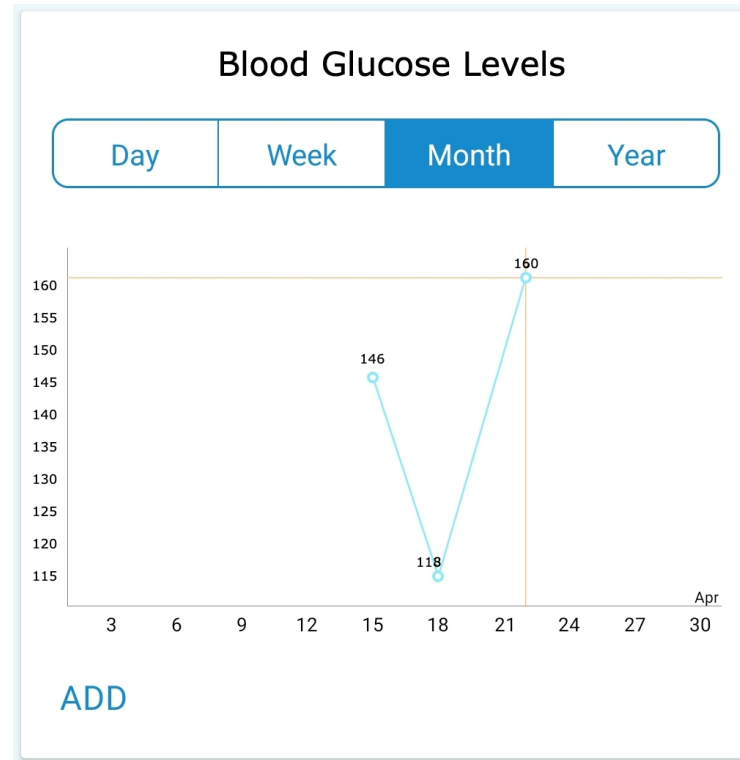 ► Securely transmitted to REDCap

Enter passcode

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MyCap

Charts and Graphs

► Participants can track progress

Blood Glucose Levels

| Day | Week | Month | Year |

MyCap

Communication

► Send secure messages to individual participants

► Send announcements to all participants

Messages

Message Center — 02:00 PM 04-26
We noticed your blood glucose levels have been higher this week. Would you like more materials on healthier eating choices?

You — 02:01 PM 04-26
No, it has been my birthday. I will eat better next week!

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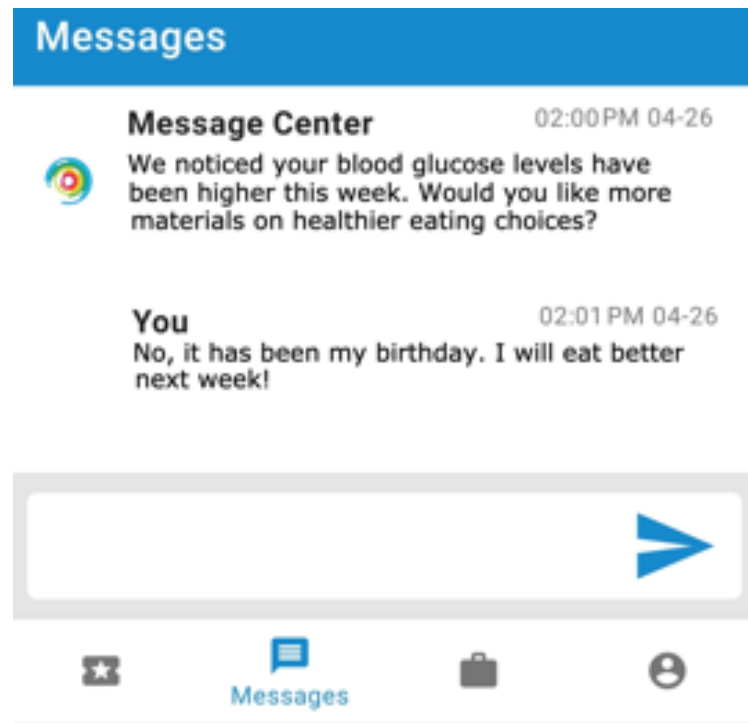
MyCap– Best Practices

- *In-person enrollment to assist users in download of app and project*

- *Use short and uncomplicated instruments*

- *Single statement branching logic*
  - *i.e. [gender]='0'*

- *Avoid changes to instruments while in production*

Thank You

Questions?

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