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
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 "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
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

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
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
Charts and Graphs

 ► Participants can track progress

Blood Glucose Levels

<table>
<thead>
<tr>
<th>Day</th>
<th>Week</th>
<th>Month</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>146</td>
<td>160</td>
</tr>
</tbody>
</table>

ADD
**MyCap**

Uses / Reasons why?

- Security
- Charts and Graphs
- Communication

**Communication**

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

![Messages](Image)
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?
CONNECT WITH ITHS

www.iths.org

@ITHS_UW

/ithsuw

/InstituteofTranslationalHealthSciences
Visit ITHS.org to Become an ITHS Member

Join a unique catalyst that accelerates discoveries to practice.

Access

Members gain access the different research services, resources, and tools offered by ITHS, including the ITHS Research Navigator.

Education and Training

Members can access a variety of workforce development and mentoring programs and apply for formal training programs.

Funding

Members can apply for local and national pilot grants and other funding opportunities. ITHS also offers letters of support for grant submissions.

Collaboration

Members can connect with collaborators across the CTSA consortium.