

The Basics: What is MyCap?

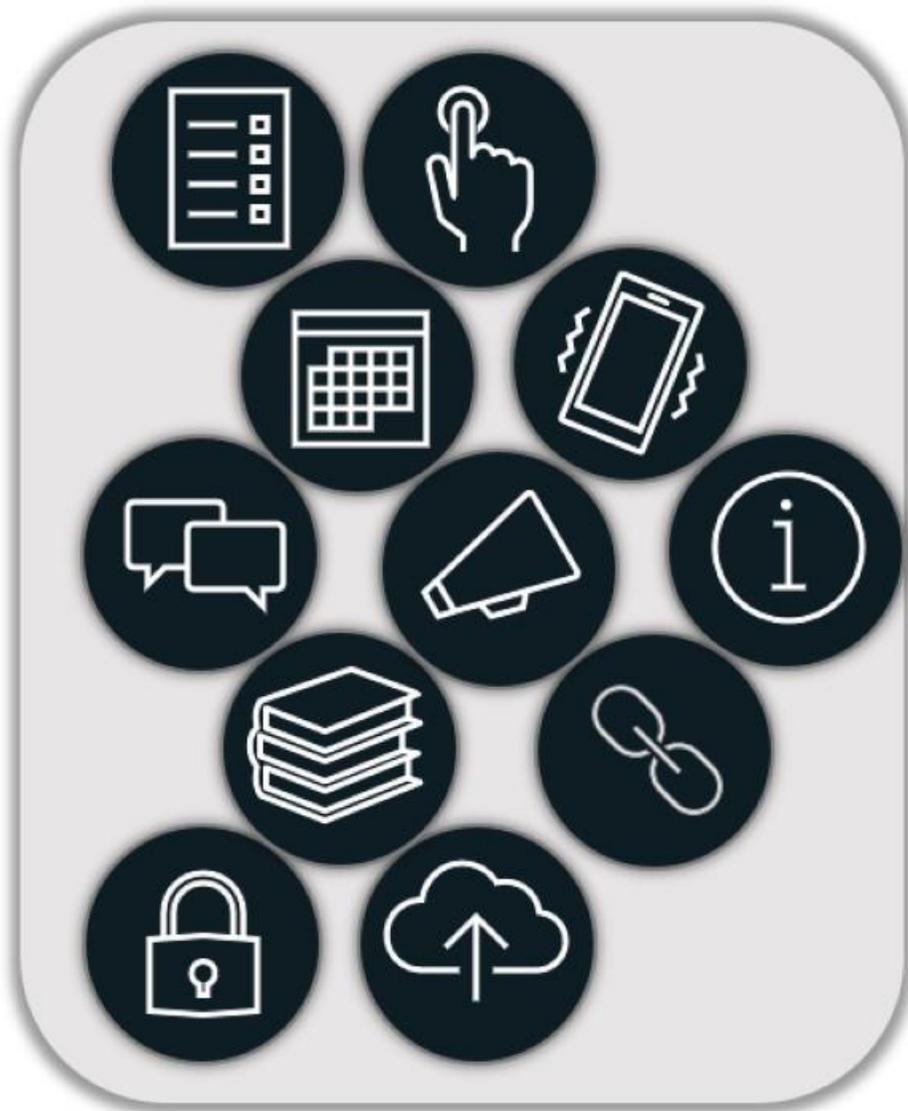
A tool for researchers – a customizable participant-facing mobile application freely available to capture patient reported outcomes based a REDCap project.

A tool for participants – a centralized study 'home' for information and actions that facilitates continuous participant engagement and participant retention.



The Basics: MyCap Features

- Supports **REDCap surveys**
- Captures **mobile sensing / active tasks** (e.g., audio recording, video recording, tone audiometry, tapping speed)
- Offers **unlimited flexibility in scheduling** per instrument
- Allows for **data collection multiple times per day**
- **Automates alerts on days tasks/surveys are due**
- Supports **bi-directional, secure messaging** between study teams and participants
- Supports the sending of **announcements to all participants**
- Allows for **custom information screens**
- Captures **hyperlinks** to web-based resources
- Supports **multiple projects/studies for a single participant**
- Offers **6-digit passcode security**
- Supports **offline data collection**



The Basics: When to Use MyCap



Recurring
outcomes or
monitoring



Multiple, frequent
data collection
points



Remote
populations or
remote trials



Minimize 1:1
contact due to
contagious diseases
or
immunocompromis
ed participants

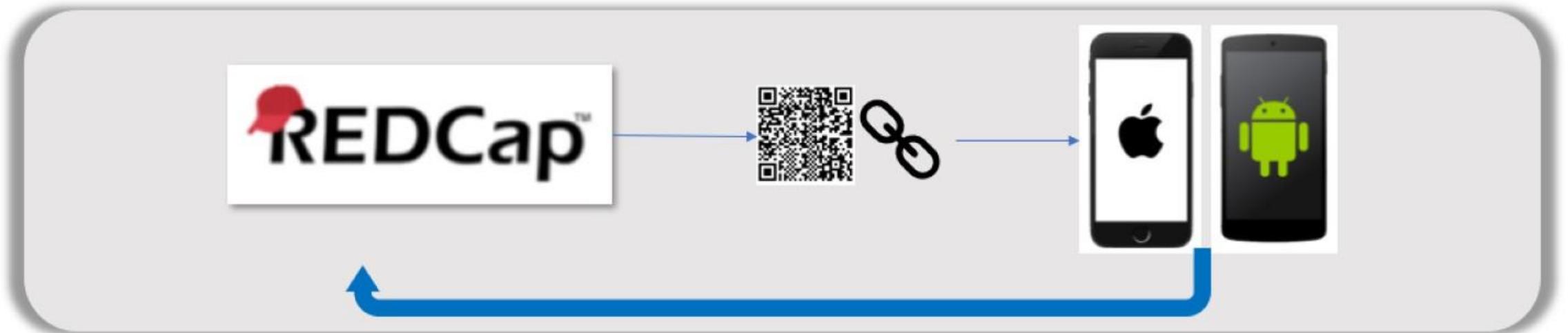


Researchers need
to use Active Tasks



MyCap Basic Workflow

1. Create the REDCap Project and configure MyCap settings
2. Create participant record in REDCap (e.g., screening survey, enrollment form, consent)
3. Participant uses QR code or 'dynamic link' to join project on their iOS or Android device
4. Participant completes tasks on device and data are sent to REDCap

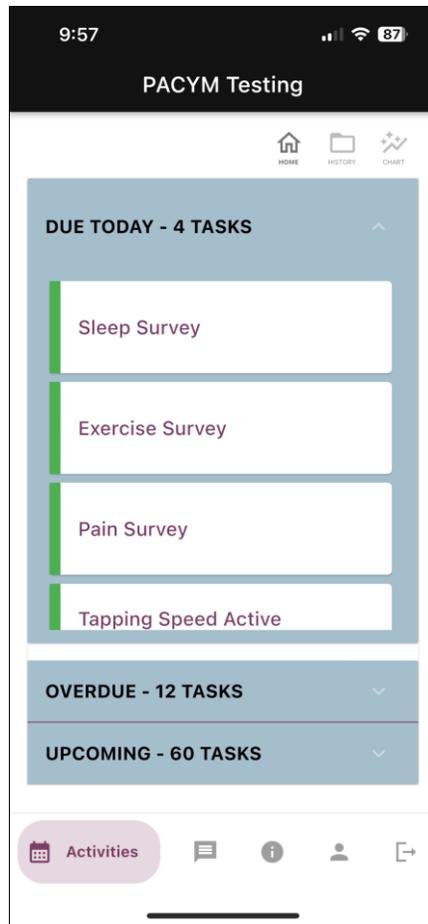


MyCap Studies: Select Highlights

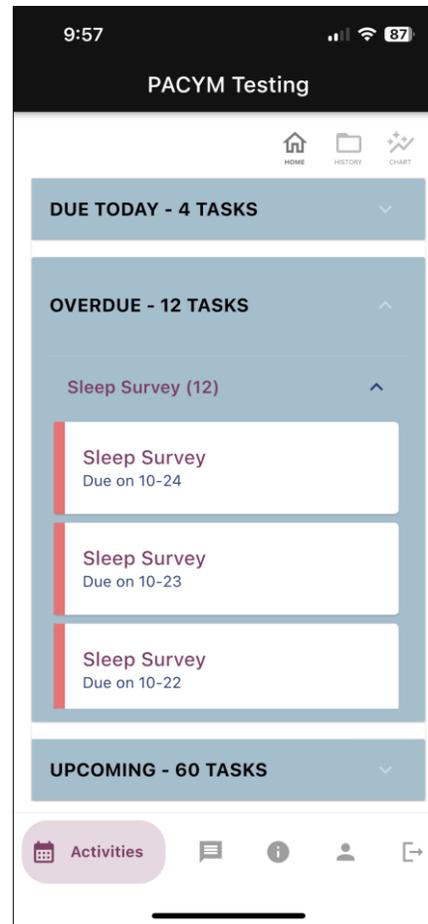
- **Experiences of spontaneous labor** – *Participant track contraction frequency and duration and document symptoms and coping methods as the latent phase of labor progresses.*
- **Remote patient monitoring** of COVID-19 – *Participants recorded their blood pressure, heart rate, and symptoms using daily questionnaires.*
- **Medication adherence** – *Participants photographed their medication after receiving MyCap alert to take their medication.*
- **Medication effectiveness** – *Participants completed the Tapping Speed active task 2 x day, 3 x week for 5 weeks.*
- **Drug efficacy** – *Participants complete daily activity forms and weekly symptom questionnaires.*
- **Use of behavioral intervention strategies** – *Participants (staff) log the presence and type of behavioral problems, treatment dosage, and engagement with professional development programs.*
- **Medication impact** – *Participants log daily sleep diary of 'to bed' and 'wake times', as well as medication use.*
- **Disease surveillance** – *Participants scan barcode attached to (saliva sample) test tube. After lab processing, results are reported back.*

MyCap Use: Task Schedules

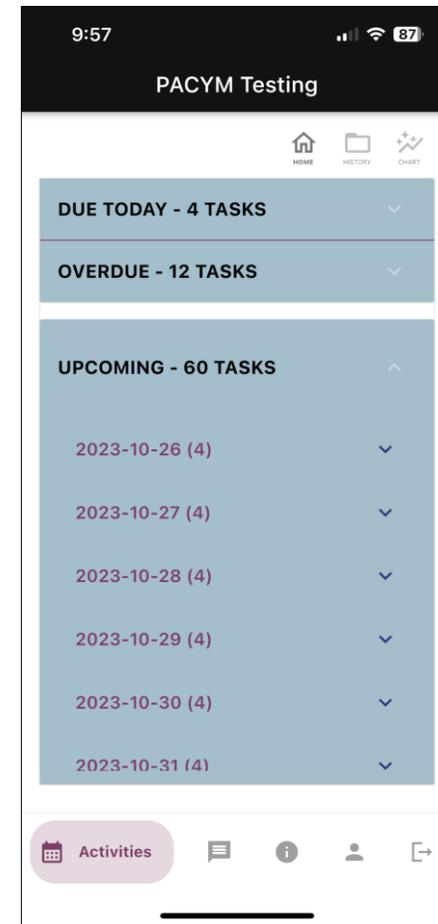
Tasks Due Today



Overdue Tasks



Upcoming Tasks



MyCap Use: Participant Surveys

1:04 55

Exercise Survey 3 / 11

Did you exercise today?

Yes No

BACK NEXT

12:07 71

Exercise Survey 5 / 11

On a scale of 1-10, how energized did you feel after your workout today? (1 = no energy and 10 = most energy possible).

0 5 10

BACK NEXT

12:07 71

Exercise Survey 8 / 11

What kind of exercise did you do? Select all that apply.

- Swim
- Run
- Walk
- Bike
- Cross fit
- Other

BACK NEXT

12:07 71

Exercise Survey 9 / 11

How often do you normally exercise? Select only one option.

- Daily
- Weekly
- 2-3 x weekly
- Other

BACK NEXT

1:04 55

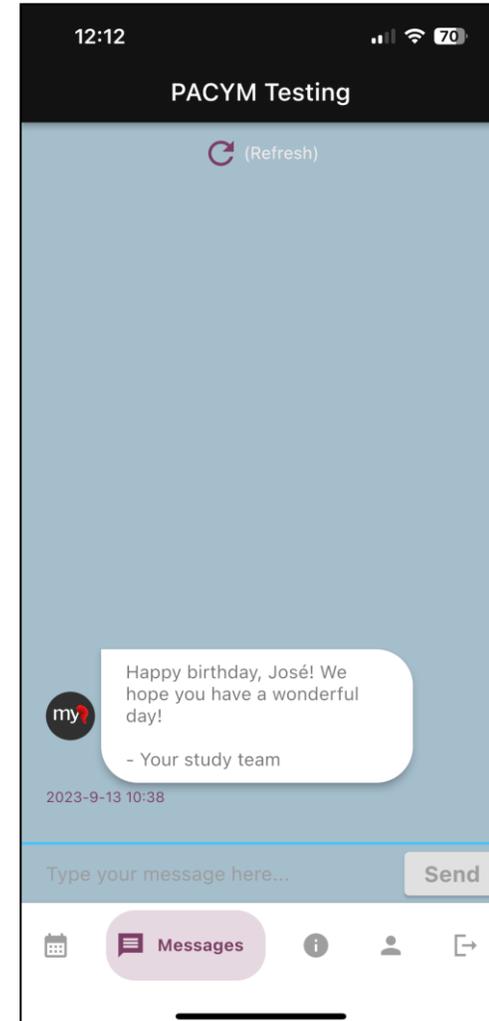
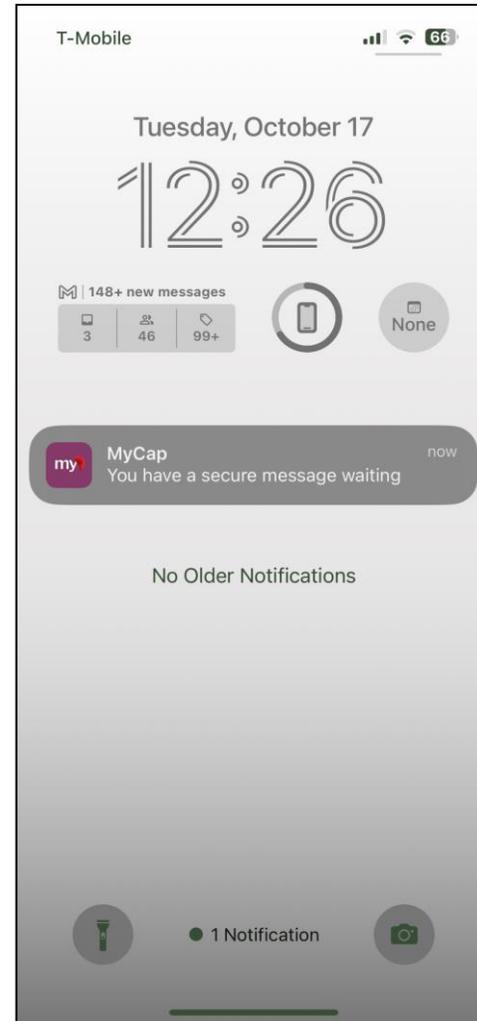
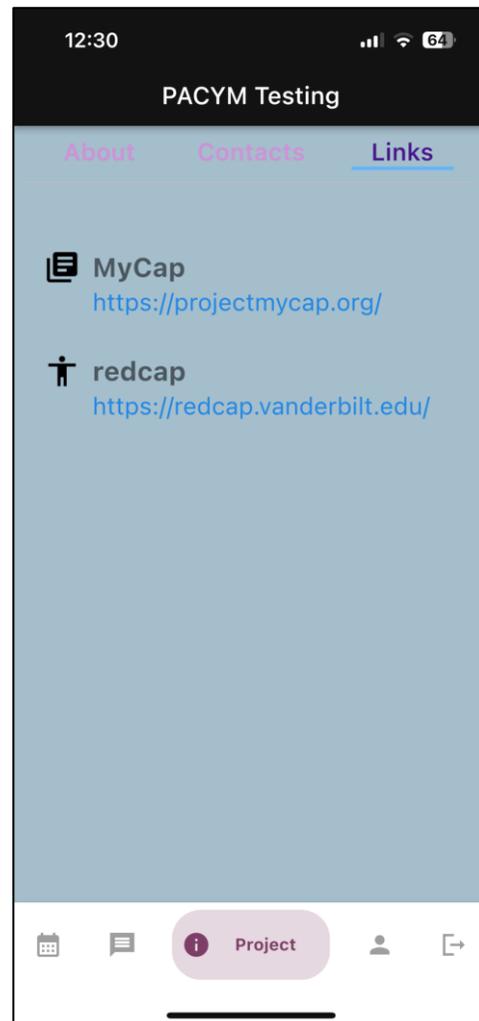
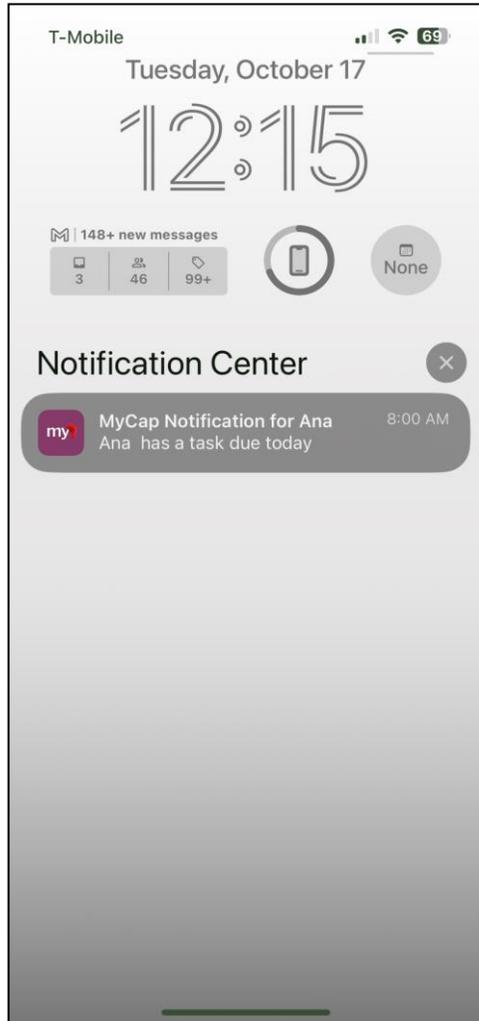
Exercise Survey 1 / 11

What day is it?

Date

NEXT

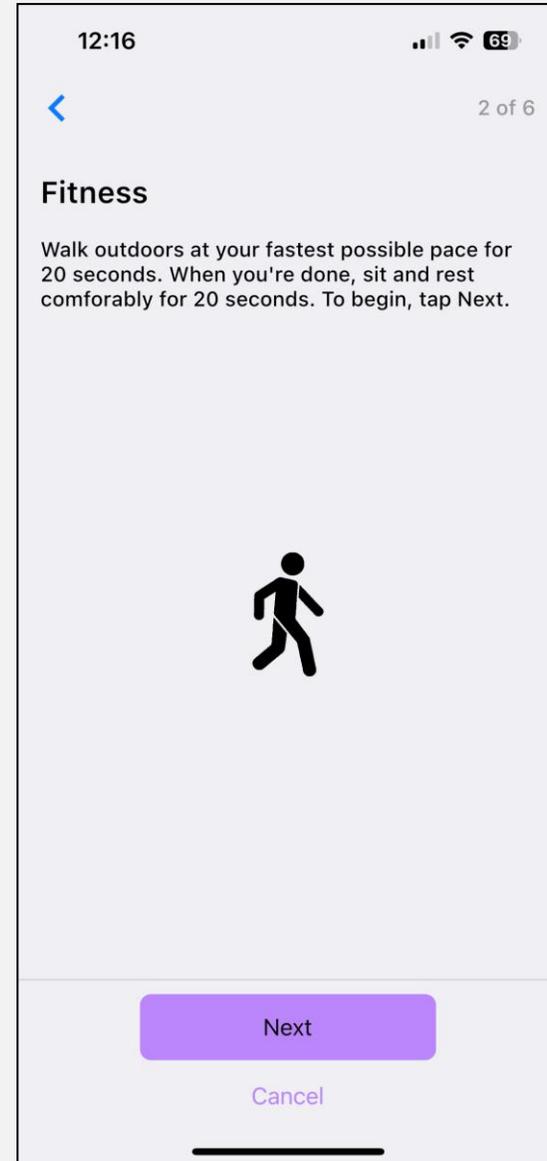
MyCap Use: Additional Features



MyCap Use: Active Tasks

Active tasks are designed to measure sensory information using a device's sensors (camera, microphone, screen, or speakers). Active tasks can capture the following information through the MyCap App:

- Range of motion
- Spatial memory
- Reaction time
- Speech recognition abilities
- Tapping speed
- ... and more!



The Participant's “Research Home” away from clinic

Participants can:

- Submit data and complete research activities
- Send / receive messages (e.g., ask study questions; receive reminders for upcoming events, appointments, visits)
- Locate study & contact information
- Access links to web-based information and resources



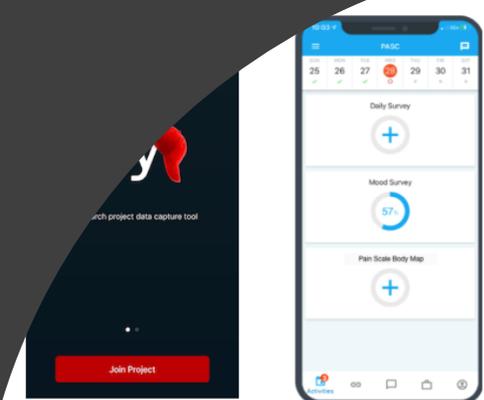
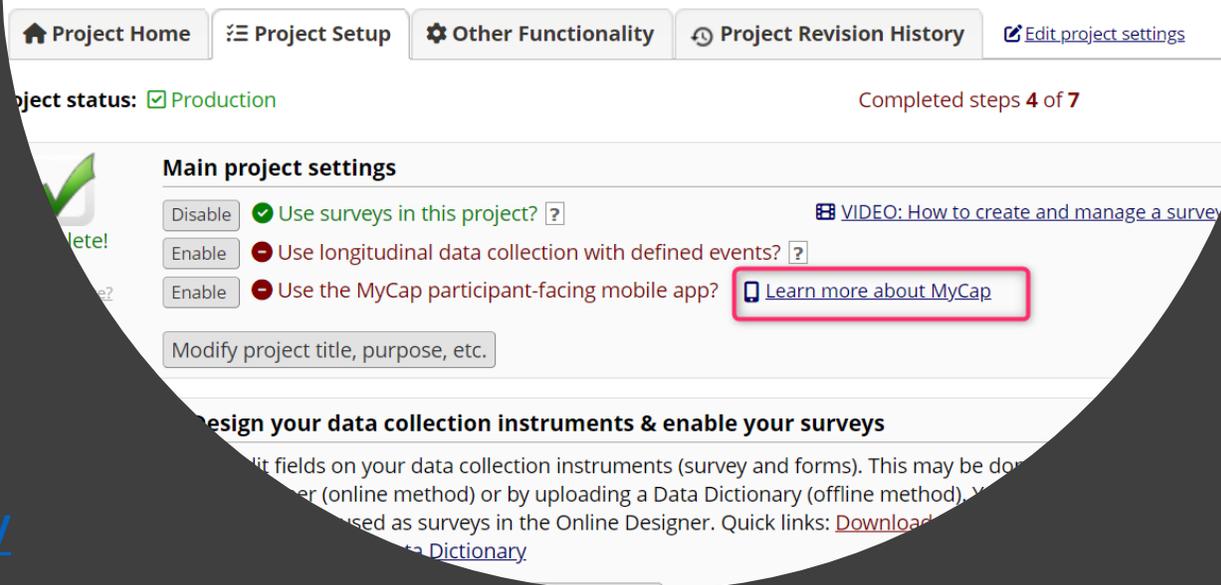
MyCap Resources

1. “Learn more about MyCap” within REDCap
2. Email us for a consult: MyCap@vumc.org
3. From our website: <https://projectmycap.org/>
 - a. Check out our use cases
 - b. Read the FAQs
 - c. Browse our end-user resources
3. Sign up for our [newsletter](#)
4. Check out our [YouTube Channel](#)
5. Read the MyCap Marker Paper: [MyCap Marker Paper](#)
6. Demo a MyCap project by scanning the QR code below:



SCAN ME

- > Submit the survey > Click the MyCap link > Demo project.
- > You can demo MyCap Active Tasks and Scheduling [here](#).



MyCap is a participant-facing mobile application (iOS and Android) used for data collection and the automated assignment of active tasks (activities performed by participants using mobile device sensors under semi-controlled conditions). All data collected in the MyCap app are automatically sent back to the REDCap server as soon as internet connection is available (i.e., it can also be used for offline participant data collection).

MyCap is a no-code solution for research teams conducting longitudinally-designed projects or projects with frequent participant contact. MyCap also facilitates participant engagement and retention by providing quick access to project staff and two-way communications (e.g., messaging and announcements) within the app. MyCap is available on any iOS device (iOS v11.0+) and any Android device (Android v8.0+).

For more information about MyCap, check out the [MyCap website](#), [publication](#), [resources](#), and a list of [MyCap use cases](#).

my **Watch some short videos on how to use MyCap in a project:**

- [Configure MyCap Tasks](#)
- [App Design](#)
- [MyCap Participant Management](#)

Take a test drive: View the MyCap app through the eyes of a participant.
[Join a demo project using the MyCap mobile app](#)

Prefer a detailed guide of instructions?
Read the [MyCap Help document](#)

Current limitations with MyCap: Several standard REDCap features are not supported by MyCap, partially due to the fact that the MyCap app intentionally keeps very little participant data on the mobile device at a given time. The following REDCap features are **not supported in the MyCap mobile app**: piping, smart variables, field embedding, special functions, calculated fields, and most action tags (@HIDDEN and all @MC- prefixed action tags *are* supported). **Branching logic is partially supported**, in which simple, single-statement branching logic (i.e., does not contain AND, OR, or special functions), such as `[field]='1'`, is supported.

Close