

# Data Analytics Update

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# Long-Term Outcomes

When will I get  
back to **baseline**?

What will my **quality** of life  
be like after I recover?

Am I going to have **pain**  
for the rest of my life?

## Long-Term Outcomes - **Questions**

- **Unclear baseline**
- **Unclear long-term impact of care provided**
- **Unclear quality of life post-injury**

## Long-Term Outcomes – **Challenges**

- **Abstractor burden**
- **Abstraction cost**
- **Need for validated, meaningful data**
- **IRB approval**

## Long-Term Outcomes – **Current State**

- **Other collaboratives**

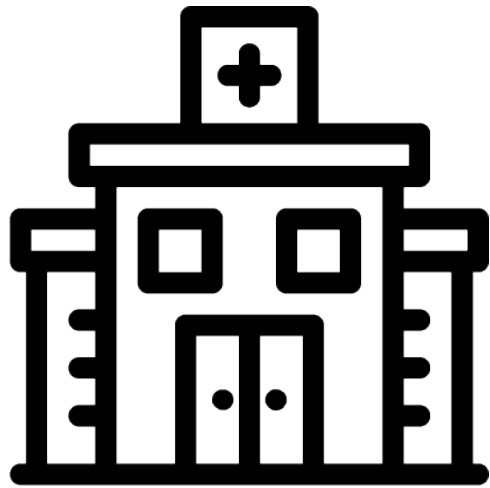




## Long-Term Outcomes – **Proposed Solution**

- **Anesthesia collaborative (ASPIRE) app**
- **Active and passive data collection**
- **Employs NIH and WHO validated measures**

# Long-Term Outcomes – **Implementation**



**Discharge**



**App Store**



**MyDataHelps**

## Long-Term Outcomes – **Security**

- **Physical, organizational, technical safeguards**
- **Data encryption during storage and transmission using National Institutes of Standards and Technology (NIST)**

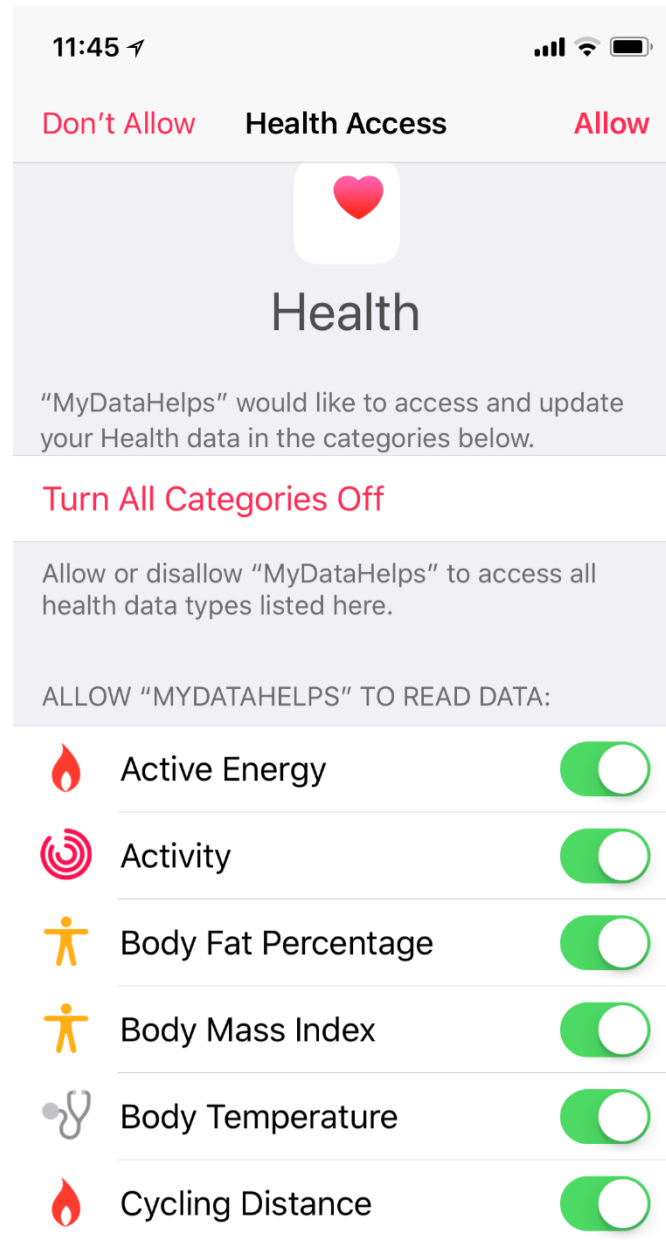
# Long-Term Outcomes – PHI

- **ResearchKit consent framework**




We're working with an accomplished medical community.











# Long-Term Outcomes – **Passive Data**













# Long-Term Outcomes – Passive Data

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[Don't Allow](#) **Health Access** [Allow](#)

-  Diastolic Blood Pressure
-  Exercise Minutes
-  Flights Climbed
-  Heart Rate
-  Height
-  Lean Body Mass
-  NikeFuel
-  Pushes

-  Respiratory Rate
-  Resting Energy
-  Sleep Analysis
-  Stand Hours
-  Steps
-  Systolic Blood Pressure
-  Walking + Running Distance
-  Weight
-  Wheelchair Distance
-  Workouts

# Long-Term Outcomes – Active Data

Surveys

DUE THURSDAY, MARCH 22, 2018

- Disability Assessment  
12 questions — PROSPER
- Global Health  
10 questions — PROSPER
- Sleep quality  
8 questions — PROSPER
- Social Roles and Activities  
8 questions — PROSPER
- Cognitive Function  
4 questions — PROSPER
- Emotional Distress  
4 questions — PROSPER
- Pain Intensity  
3 questions — PROSPER

Surveys      Dashboard      Studies

## Long-Term Outcomes – **Next Steps**

- **IRB amendment (MTQIP coordinating only)**
- **CareEvolution build**
- **App info provided to interested centers**



**Feedback**