

REDCap Grand Rounds

Modernizing a longitudinal study:
Ohio Regional Traumatic Brain
Injury Model System

3/19/24 - Ally Guiher + Jess Hale

Traumatic Brain Injury Model Systems (TBIMS)

TBIMS is one of three Model Systems programs sponsored by NIDILRR (TBI, Burn, SCI). First funded in 1987 (7 sites)

- Primary goal: Improve care and outcomes for individuals with TBI
- Prospective, longitudinal, multicenter study
- **16** funded centers, 5-year grant cycle ('22-'27)
- Over 15,000 individual participants have data in the National Database (NDB)

TBIMS at OSU

- OSU: longest continually funded center, **since 1997** (30 years of funding), Pre-HIPAA!
- Over **1,460** participants enrolled
 - Over 950 participants **active**
 - 'End-point': death, withdraw, or center loses funding
 - **Enroll at least 35 new participants every year – currently over-enrolling** (randomization algorithm turned off 10/1/23) - approaching **all** eligible participants
 - 79 eligible admissions in RY, 53 randomized to approach; 40 consented

Challenges:

- Hundreds of active participants to keep track of
- Paper documentation used in most workflows
 - *Inefficiencies + redundancies*
 - *Space limitations (filing paper docs)*
 - *Growing participant load*

Current workflows – paper galore!

- Consent – paper
- Baseline data – mostly paper -> electronic entry
- Contact call documentation – paper
- Follow-up call documentation – paper -> electronic entry (internal db)
- Local data – paper -> electronic entry (excel, internal db)
- Gift card logs – paper

REDCap Database - Total overhaul of workflows

Phase 1:

- Contact tracking log
- Structure of eConsent framework (will need IRB-approval)
- Instrument to upload scans of paper consent documentation

Phase 2 (development in progress):

- eConsent framework finalization
- Gift Card log
- Local data (baseline and F/U)
- Scheduling integration
- Detailed contact tracking dashboard by weekday and time of day

Phase 1 – Contact Tracking Database

The screenshot displays the REDCap web interface for the S2549 - OHIO REGIONAL TRAUMATIC BRAIN INJURY MODEL SYSTEM STUDY. The browser address bar shows the URL: redcap.osumc.edu/redcap/redcap_v13.10.6/ExternalModules/?prefix=orca_search&page=search&pid=2971. The user is logged in as gui02@osumc.edu.

Search Dashboard

Select Search Field: Subject ID#

New Record: New Subject ID# [Add new record]

Search Text: [Search]

Limit: 2000 [Search]

Note: Search will return matches that occur in **any** instance of a form.

Show 50 entries

Subject ID#	TBI Participant Name	Status	Contact Call Month:	Next Follow-Up Year (Adaptive)	Last Contact Date	Record Home
No data available in table						

Showing 0 to 0 of 0 entries

Total Processing Time: 0.0165 seconds

app.clipchamp.com is sharing your screen. [Stop sharing] [Hide]

55°F Sunny 2:56 PM 3/15/2024