

BRICS Seminar

Meta Study Module Updates

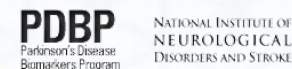
ProFoRMS – Deep Dive

Biomedical Research Informatics Computing System (BRICS)

November 14th, 2024



MTBI²





| | |
|---------------------------------|--|
| Audio/Video | Please keep your microphone muted |
| Recording | <ul style="list-style-type: none">• Today's session will be recorded• Will be posted on the BRICS website: https://brics.cit.nih.gov/demo |
| Questions & Comments | <ul style="list-style-type: none">• We encourage your participation today• Please use the chat for questions & comments. The chat will be monitored throughout today's demo.• There will also be time after each speaker and at the end of the demo to ask live questions. |



Agenda

| Time | Topic | Speaker(s) |
|------------------|---------------------------|-----------------------|
| 9:05 AM-9:35 AM | Meta Study Module Updates | Michelle Harris |
| 9:35 AM-9:55 AM | ProFoRMS – Deep Dive | Andrea Lutz |
| 9:55 AM-10:00 AM | Closing Remarks | Dr. Matthew McAuliffe |



BRICS Tools | Plug & Play Components for the Full Research Lifecycle

BRICS offers researchers a secure platform and a suite of web-based and downloadable tools that can be shared across disease categories or deployed and branded independently, depending on the needs of your program.



Data Mapping & Transformation

Tool that translates data into CDEs used by BRICS to prepare for validation



Data Dictionary

Intelligent clinical research data dictionary that supports cross-system exchange, CDEs



Data Repository

Functionality to define and manage studies and contribute or store data



ProFoRMS

Module for electronic data capture (EDC), subject management and scheduling, etc, (21 CFR part 11 compliant)



Meta Study

Workspace that aggregates data and metadata across studies for reference



Global Unique Identifier

Cross-study Privacy Preserving Record Linkage (PPRL) system

Continues...

**Query**

Tool enabling filtering of submitted data using data elements and form structures

**Clinical Trials Management System (CTMS)**

Management of Clinical Trials by enabling insight into trial performance.

**BRICS Imaging Tools**

Enables quantitative analysis and viewing of medical images, such as PET, MRI, CT, or microscopy.

**Forum**

Discussion board for account users for posting messages, interacting with each other, and discussing various topics

**Account Management**

Create, approve, and manage user accounts. (RAS enabled)

**InET**

Application for assigning new training, tracking current training, licenses and compliance.

**STAMS: Specimen Tracking And Management System**

Provides the path to container storage locations (e.g. freezer) that guides the user to the specific container and sample.



BRICS

Biomedical Research
Informatics Computing System

Biomedical Research Informatics Computing System (BRICS)

Meta Study Updates

Michelle Harris



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Meta Study Module Updates

The main use cases for the Meta Study are:

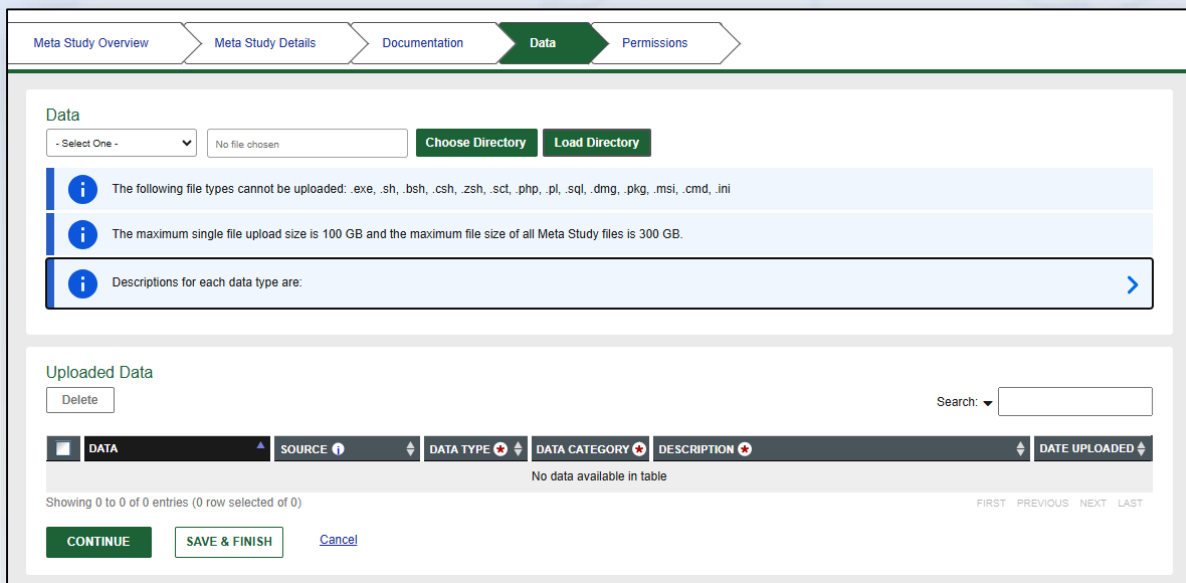
1. Meta Analysis

- Facilitates aggregation of data from different studies with BRICS Repository module for meta-analysis
- Accommodates upload(s) of data external to BRICS to be included in meta-analysis

2. Data Store/Repository

- Facilitates storage of data from studies that do not have a requirement to upload data to the BRICS Repository module
- Supports NIH Data Management and Sharing Policy
- **NOTE:** Data stored inside of the Meta Study Data Store will not be validated or stored in the Data Repository module and it also will not be queryable

Meta Study Module Updates



The screenshot shows the 'Data' tab in the Meta Study Module. At the top, there is a navigation bar with 'Meta Study Overview', 'Meta Study Details', 'Documentation', 'Data' (highlighted), and 'Permissions'. Below this, the 'Data' section includes a dropdown menu set to '- Select One -', a text input field containing 'No file chosen', and two buttons: 'Choose Directory' and 'Load Directory'. Three informational messages are displayed: 1) A list of file types that cannot be uploaded: .exe, .sh, .bsh, .csh, .zsh, .sct, .php, .pl, .sql, .dmg, .pkg, .msi, .cmd, .ini. 2) A message stating the maximum single file upload size is 100 GB and the maximum file size of all Meta Study files is 300 GB. 3) A link to view descriptions for each data type. Below the messages is the 'Uploaded Data' section, which has a 'Delete' button and a search input field. A table header is visible with columns: DATA, SOURCE, DATA TYPE, DATA CATEGORY, DESCRIPTION, and DATE UPLOADED. The table content is empty, showing 'No data available in table'. At the bottom, there are buttons for 'CONTINUE', 'SAVE & FINISH', and a 'Cancel' link.

- Not required to align data with NINDS CDEs
- Data can be uploaded directly in various file types
- File size limits:
 - Single file limit: 100 GB
 - Total file limit: 300 GB
- Admins can adjust file size limits as needed



Meta Study Module Updates

| | |
|----------------------------|---|
| Resource | FITBIR |
| Title | FITBIR: Accelerating Synthesis in TBI Research Using Novel Methods |
| Meta Study ID | FITBIR-META-STUDY0000223 |
| DOI | 10.23718/FITBIR/1528491 |

- Data in Meta Study can be cited in publications using the generated DOI
- DOI will be in a DRAFT status until the Meta Study is published at which point it will transition to a published state
- NINDS Data Science Strategy (ODSS) contracts with a company to generate DOIs through DataCite



Demo

Meta Study Module Updates

Upcoming Features

- Ability to data transfer with Globus – a platform for secure, high-speed data transfers
- Allow users to request to archive or delete published data
- Ability to cancel pending requests to archive or delete published data



Uploaded Data

| SELECT | DATA FILE NAME | SOURCE | DATA TYPE | DATA CATEGORY | DESCRIPTION | DATE UPLOADED | STATUS |
|--------------------------|----------------|---|------------|---------------|--|------------------|-------------------|
| <input type="checkbox"/> | Query Data 1 | Query Tool | Query Data | Saved Query | This is a description that is 25 characters and will be... Edit Description | 2023-07-11 08:45 | Draft |
| <input type="checkbox"/> | File2.csv | External Edit Source | Biosample | Results | This is a description that is 25 characters and will be... Edit Description | 2023-07-11 08:45 | Deleted (pending) |
| <input type="checkbox"/> | Query Data 2 | Query Tool | Query Data | Saved Query | Saved Query data Edit Description | 2023-07-11 08:45 | Deleted (pending) |
| <input type="checkbox"/> | File1.csv | External Edit Source | Clinical | Results | Description of clinical results data Edit Description | 2023-07-11 08:45 | Published |

Dataset Actions

Change Status: Pending Request



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Questions?





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ProFoRMS – Deep Dive

Andrea Lutz



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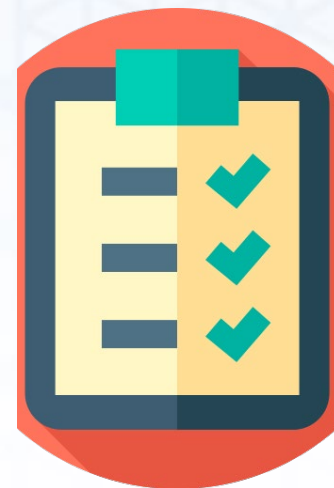
What is ProFoRMS?

- Protocol and Form Research Management System
- Provides the tools for protocol management, data capture, and is a clinical trial/research module.



Features:

- Clinical Data Management
 - 21 CFR Part 11 Compliant
 - Customizable eCRFs (electronic Case Report Forms)
 - Patient Self-Reporting (PSR)
- User-friendly interface
- Protocol & subject management
- Customizable study schedule
- Data export
- Reporting



ProFoRMS

ProFoRMS Protocols



Site 1



Site 2



Site 3

Data Repository



Dementia with
Lewy Bodies
Consortium Study

Query Tool



DLBC Study
Data



Demo



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Questions?





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Thank you for joining in!

Will see you all on December 12th, 2024!

