

# NeuroNEXT Network

## Standard Operating Procedure (SOP)



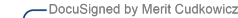



### Specifications Development, Testing Plans, and Validation Documentation

Version 3.0


SOP NN DM 1004

Originators: NeuroNEXT CCC and DCC Personnel

Reviewed and Approved by:

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| <b>Name and Title:</b> Christopher S. Coffey, PhD (DCC Principal Investigator)  |  |
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## **NN DM 1004**

# **NEURONEXT NETWORK STANDARD OPERATING PROCEDURE FOR SPECIFICATIONS DEVELOPMENT, TESTING PLANS, AND VALIDATION DOCUMENTATION**

## **1. POLICY**

The Data Management (DM) Team at the NeuroNEXT Data Coordinating Center (DCC) participates in all aspects of clinical data management, including the development of User Specifications and Testing Plans for electronic CRFs and protocol websites, the testing of these applications, and the creation of validation documentation. Validation documentation consists of two primary components: 1. The FogBugz® tracking system, which provides a tracking mechanism and case history for specifications and testing plan development, testing results, and the location of the validation documentation (screenshots); and 2. The 'Validation Document' which contains screenshots representing testing results for each requirement listed in the testing plan.

## **2. SCOPE**

This SOP has been developed to be in alignment with federal regulations and Good Clinical Practices (GCP) as set forth in the 2016 Integrated Addendum to ICH E6(R1): Guideline for Good Clinical Practice E6(R2). The policies and procedures described in this SOP apply to the NeuroNEXT Clinical Coordinating Center (CCC) and DCC within the context of their oversight and advisory roles for the NeuroNEXT Network, and to all NeuroNEXT investigators, staff, subcontractors, or other entities associated with the NeuroNEXT Network who manage, oversee, and conduct research regulated by FDA and/or applicable review committees.

## **3. ROLES AND RESPONSIBILITIES**

For most projects, the DCC is generally responsible for the following aspects of data management: development of User Specifications and Testing Plans for electronic CRFs and protocol websites, the testing of these applications, and the creation of validation documentation.

The responsibility to conduct any or all of these activities may be delegated at the discretion of the Sponsor to the DCC or to subcontractors of the DCC, where applicable. Those individuals and entities also take on responsibility for meeting regulatory requirements on behalf of the Sponsor, but the Sponsor has the ultimate responsibility, and must therefore supervise those delegated activities effectively.

## **4. APPLICABLE REGULATIONS AND GUIDELINES**

|              |   |
|--------------|---|
| ICH E6       | Good Clinical Practice: Consolidated Guidance, April 1996   |
| ICH E6, 2.10 | The Principles of ICH GCP   |
| ICH E6, 5.1  | Quality Assurance and Quality Control   |
| FDA Guidance | Computerized Systems Used in Clinical Investigations, FDA, May 2007                                 |
| FDA Guidance | Computerized Systems Used in Clinical Trials, FDA, April 1999                                       |
| FDA Guidance | 21 CFR Part 11, Electronic Records; Electronic Signatures – Scope and Application, FDA, August 2003 |
| FDA Guidance | General Principles of Software Validation; Final Guidance for Industry and FDA Staff, January 2002  |

## **5. REFERENCES TO OTHER APPLICABLE SOPs**

|            |  |
|------------|--|
| NN CS 702  | Application Development and Validation |
| NN DM 1001 | Clinical Data Management               |
| NN DM 1002 | Data Management Plan Development       |
| NN DM 1003 | Case Report Form Development           |
| NN DM 1005 | Data Collection and Data Handling      |

## 6. ATTACHMENTS AND REFERENCES

NN DM 1004 – A Document History

## 7. TERMS AND ABBREVIATIONS

The following terms and abbreviations are used in this document:

|                                       |   |
|---------------------------------------|---|
| CCC                                   | Clinical Coordinating Center at Massachusetts General Hospital                              |
| Clinical Study Site (CSS)             | Clinical site that conducts research for a NeuroNEXT protocol within or outside the Network |
| DCC                                   | Data Coordinating Center at The University of Iowa  |
| DM                                    | Data Management Team at the DCC   |
| IT                                    | Information Technology Team at the DCC  |
| Protocol Principal Investigator (PPI) | Principal Investigator of a NeuroNEXT protocol  |

## 8. SPECIFIC PROCEDURES

### A. Specifications Development for eCRFs

After the paper CRF templates for a project are approved by the CRF Development Committee and the Sponsor (if applicable), a user specifications document is created for each CRF template. User specifications (specs) are created by the DCC DM Team in consultation with the Study Team, and describe the user requirements for an electronic Case Report Form (eCRF) or website module.

To maintain continuity and to track the evolution of an eCRF application or website module throughout its life cycle, only one specifications document is used for each eCRF or module that is developed. A change table is added to each newly created user specifications document so that later modifications may be tracked.

Modifications are inserted into the original specification document.

| #  | Who    | Task   | Attachment/<br>Reference | Related<br>SOP                         |
|----|--------|--|--------------------------|--|
| 1. | DCC DM | Create only one specifications document for use throughout the life of an eCRF or website module.<br><br>Collaborate with the IT Team during the spec development process to ensure that specifications clearly define and describe the user requirements. |                          | NN DM 1001<br>NN DM 1002<br>NN DM 1003 |
| 2. | DCC DM | Develop the specification document.  |                          |  |
| 3. | DCC DM | Track future modifications to an eCRF in the change table in the spec document, and insert any modifications to the requirements into the spec document.   |                          |  |

### B. Creation of Testing Plans

Comprehensive testing is critical for ensuring that an eCRF or other application is functioning according to specifications. For each specification document, a corresponding testing plan is created that describes the testing

conditions for thoroughly testing all of the requirements that are detailed in the specifications document. The testing plan contains the following components that must be completed for each of the testing conditions:

**Sequence Number** – a unique identifier for each test condition.

**Requirement Number** – the same requirement number used in the Specifications Document.

**Testing Conditions** – the instructions to be followed in order to test the requirement.

**Expected Result** – the expected result after the test condition is completed.

**Test Result (Pass/Fail)** – a Pass/Fail result is recorded in this column at the time of the test. Pass indicates that the testing condition performed as expected.

**Comments** – any comments associated with the test; generally used to describe what happened when a test failed.

An electronic testing plan workbook is created to document the testing of an eCRF or website module throughout its life cycle. Each sheet in the workbook represents the testing that has been completed for a particular work effort within a specific testing environment. For new eCRF development, the testing plan worksheet contains test conditions for all user requirements. For modifications to an eCRF, the subsequent worksheets that are added to the testing plan refer only to test conditions for the modified or added requirements.

| #  | Who    | Task   | Attachment/<br>Reference | Related<br>SOP |
|----|--------|--|--------------------------|----------------|
| 1. | DCC DM | Create a testing plan that describes the testing conditions that are used to test all of the requirements detailed in the specifications document. An Excel® spreadsheet workbook is the preferred tool that is used by the DCC to create testing plans. |                          | NN DM 1001     |
| 2. | DCC DM | For form modifications, refer only to the modified requirements in subsequent testing plan worksheets.   |                          |                |

### C. Application Development and Testing

After specifications have been finalized and a testing plan has been created, a case is created in the FogBugz® application to initiate the process of IT development, testing, and the eventual move of the application to the Production environment, where the application is made available to Clinical Study Sites (CSS).

Prior to application development, the DM and IT Team Leads prioritize and batch together cases for development into a FogBugz® Milestone. Cases are then assigned to the IT Developers for coding. Internal correspondence between Data Managers and Developers is tracked in the associated development case during the application development and testing process.

When the case is available for testing, the tester completes each test condition listed on the testing plan worksheet, documents whether the test passed or failed, and adds comments to describe the nature of an error or bug. Once testing is completed, the testing plan worksheet is attached to the appropriate FogBugz® case.

| #  | Who    | Task  | Attachment/<br>Reference | Related<br>SOP |
|----|--------|---|--------------------------|----------------|
| 1. | DCC DM | After the specifications have been finalized and a testing plan has been created, create a case in the FogBugz® application to initiate the IT development and testing process. |                          | NN DM 1001     |

| #  | Who    | Task  | Attachment/<br>Reference | Related<br>SOP |
|----|--------|---|--------------------------|----------------|
| 2. | DCC DM | Follow the procedures described in NeuroNEXT SOP NN CS 702 to test the application in the Test and Stage environments, and document all testing results in the testing plan workbook.     |                          | NN CS 702      |
| 3. | DCC DM | For failed test conditions, provide clear descriptions of what was tested, the result, and how the result differed from the expected result (if applicable) in the testing plan workbook. |                          |                |
| 4. | DCC DM | If necessary, meet with the developer to clarify testing issues or to discuss possible modifications to the user specifications.  |                          |                |

#### D. Validation Document

The 'Validation Document' is generated during testing in the Stage environment.

| #  | Who    | Task  | Attachment/<br>Reference | Related<br>SOP |
|----|--------|---|--------------------------|----------------|
| 1. | DCC DM | After testing is completed, create a validation document, if applicable.  |                          | NN DM 1001     |
| 2. | DCC DM | Create screen shots to document the testing of each requirement, when appropriate.  |                          |                |
| 3. | DCC DM | Label each screen shot with the corresponding Requirement number, the Sequence number tested, and the date of the screenshot. |                          |                |

#### E. Save/Audit Testing

This testing ensures that each data item on an eCRF maps to the correct data field and data table in the database. Save/Audit Testing is performed by using the electronic data capture (EDC) website and SAS® software (SAS Institute Inc®, Cary, NC).

| #  | Who    | Task  | Attachment/<br>Reference | Related SOP |
|----|--------|---|--------------------------|-------------|
| 1. | DCC DM | Perform save/audit testing for all new studies and/or new eCRF development. |                          | NN DM 1001  |

#### F. Milestone Review

While the Milestone is in the Stage environment, the DCC DM team performs targeted testing to help ensure that the application has not been affected by programming changes.

| #  | Who              | Task   | Attachments<br>/References | Related<br>SOP |
|----|------------------|--|----------------------------|----------------|
| 1. | DCC DM           | Create a FogBugz case to track the Milestone review.   |                            |                |
| 2. | DCC DM<br>Tester | <p>Perform a Milestone review in the Stage environment (using a Milestone checklist, if applicable) to check the functionality of all modules and the general performance of the website to ensure that the application has not been affected by programming changes. Reviews may include, but are not limited to, checks of:</p> <ul style="list-style-type: none"> <li>• Website access</li> <li>• Website configurations</li> <li>• eCRF submissions</li> <li>• Adverse Event Reporting System</li> <li>• Post-complete change functionality</li> </ul> |                            |                |
| 3. | DCC DM<br>Tester | Meet with DCC DM Lead to discuss any issues that were discovered during the review.  |                            |                |
| 4. | DCC DM<br>Lead   | Determine if issues are significant enough to delay the move to Production, or can be addressed in a subsequent Milestone.   |                            |                |
| 5. | DCC DM<br>Tester | In the FogBugz case, describe the issues to be addressed and assign the case to the DCC IT developer.  |                            |                |
| 6. | DCC IT           | Resolve the issues described in the FogBugz case, and assign the case to the DCC Tester.   |                            |                |
| 7. | DCC DM<br>Tester | Ensure that all issues have been resolved before assigning to the DCC IT Lead or designee for the move to Production.  |                            |                |

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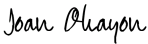

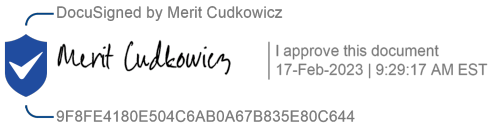
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