



**Symptoms of Lower Urinary Tract Dysfunction Research Network  
(LURN)**

**Qualitative Assessment of Lower Urinary Tract Dysfunction Study  
Protocol 1**

**Manual of Operations  
Version 5.0**

**August 13, 2015**

## Table of Contents

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1. GENERAL.....	5
1.1. Overview.....	5
1.2. Sponsor .....	5
1.3. Study Organization and Responsibilities .....	5
1.3.1. Data Coordinating Center (DCC) .....	6
1.3.2. Clinical Sites and Principal Investigators.....	7
1.3.3. External Expert Panel (EEP).....	7
1.3.4. LURN Website .....	8
1.3.5. Website URL and Access Instructions .....	8
2. IRB SUBMISSION AND REGULATORY DOCUMENTS .....	8
2.1. Protocol Version Control, Finalization, and Approval Process.....	8
2.2. Consent Form Finalization and Approval Process.....	9
2.3. Essential Documents for the Conduct of an Observational Study.....	10
3. SITE TRAINING AND ACTIVATION.....	14
3.1. Site Training.....	14
4. STUDY MONITORING .....	14
4.1. Monitoring of Site Specific Information .....	15
4.1.1. Screening Logs (Clinician, Qualitative, and Cognitive) .....	15
4.1.2. Interview Questionnaires (Clinician, Qualitative, and Cognitive).....	15
5. OBTAINING & DOCUMENTING INFORMED CONSENT .....	16
5.1. Informed Consent Process.....	16
5.1.1. Definition of Screening Statuses .....	16
5.1.2. Re-consenting Subjects Due to Amendments to the Protocol .....	17
5.1.3. Consenting Non-English Speaking Subjects .....	17
5.2. Documentation.....	17
5.3. Health Insurance Portability & Accountability Act (HIPAA) Authorization.....	17
5.4. Subject Identification Numbers .....	18
6. PROTOCOL & APPENDICES.....	18
6.1. Study Design .....	18
6.1.1. Clinician Survey (Project 1A) .....	18
7. ELIGIBILITY CRITERIA.....	19
7.1. Clinician Survey (Project 1A) .....	19
7.1.1. Eligibility Criteria – Clinician Survey .....	19
7.1.2. Clinician Screening Log .....	19

7.2.	Qualitative Interviews with People Suffering from LUTD Symptoms (Project 1B)	20
7.2.1.	Recruitment Plan	21
7.2.2.	Eligibility Criteria – Qualitative Interviews	21
7.2.3.	Qualitative Screening Information	22
7.2.4.	Qualitative Screening Log	23
7.3.	Item Writing (Project 1C)	25
7.3.1.	Recruitment and Screening	25
7.3.2.	Item Matrix	25
7.3.3.	Item Writing	25
7.4.	Cognitive Interviews (Project 1D)	26
7.4.1.	Recruitment and Screening	26
7.5.	Strategies for Approaching Participants	32
8.	DATA MANAGEMENT	33
8.1.	Gathering Data	33
8.2.	Data Timeliness	33
8.3.	General Instructions for Completing Paper Forms	34
9.	PROTOCOL COMPLIANCE	34
9.1.	Protocol Deviations	35
9.1.1.	Major Protocol Deviations	35
9.1.2.	Minor Protocol Deviations	35
9.1.3.	Data and Safety Monitoring Activities	36
9.1.4.	Study Termination and Completion	36
9.2.	SAE Reporting	37
9.3.	Confidentiality Procedures	37
9.4.	Retention and Study Documentation	38
9.5.	MOO Maintenance	38

## List of Appendices

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Appendix A: LURN Protocol 1

Appendix B: External Expert Panel (EEP)

Appendix C: Informed Consent Templates (Qualitative Interview and Cognitive Interview)

Appendix D: Regulatory

Appendix E: Roles and Responsibilities Form

Appendix F: LURN Site Training Slides (Protocol 1, Qualitative Interviews, and WRAT Reading Subtest)

Appendix G: Screening and Interview Log Templates (Clinician, Qualitative, and Cognitive)

Appendix H: Interview Questionnaires (Clinician, Qualitative, Cognitive, and LUTS Tool)

Appendix I: Box Instructions

Appendix J: Recruitment Materials (Template Advertisements)

Appendix K: Initial Symptoms of LUTD

Appendix L: WRAT Reading Subtest (Guidelines, Administration, and Scoring)

Appendix M: Domain Framework

# 1. GENERAL

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## 1.1. Overview

The study Manual of Operations (MOO) is supplied to each participating site to aid in the conduct of the LURN Protocol 1, Qualitative Assessment of Lower Urinary Tract Dysfunction Study. The role of the MOO is to facilitate consistency in protocol implementation and data collection across participants and study sites.

A MOO is a handbook that details a study's conduct and operations. It transforms the study protocol into a guideline that describes a study's organization, operational data definitions, recruitment, screening, enrollment, interviewing, follow-up procedures, and data collection methods.

The MOO is a dynamic document that will be updated throughout the conduct of the study to reflect any protocol or consent amendments as well as the refinement of any forms, surveys or study procedures. Each page of the MOO will contain the version number and date. As pages are revised, an updated version number and associated date will replace the original page(s) in the MOO. All previous versions should be archived.

The MOO will include all of the relevant sections that apply to the specific study.

Please refer to **Appendix A** to view the LURN Protocol 1. Details not outlined in the protocol are in this manual. The current version of the MOO and protocol documents are available on a website maintained by the Data Coordinating Center (DCC) at <https://nih-lurn.org/>.

## 1.2. Sponsor

The LURN project is a cooperative research network sponsored by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), a division of the National Institutes of Health (NIH). Ziya Kirkali, MD, is the NIDDK Project Officer.

## 1.3. Study Organization and Responsibilities

The goal of the Symptoms of Lower Urinary Tract Dysfunction Research Network (LURN) is to increase our understanding of lower urinary tract dysfunction (LUTD) by 1) improving the measurement of patient experiences of LUTD; 2) identifying and explaining the important subtypes of LUTD; and 3) disseminating data, research tools and biosamples to the research and clinical communities. This increased understanding of LUTD can inform strategies to prevent and/or manage disease and thus improve the lives of patients who suffer from the symptoms of LUTD.

The network plans to create a state-of-the-art resource for measuring patient-reported health for patients with lower urinary tract dysfunction (LUTD). In order to learn more about the dysfunctions of the lower urinary tract, the project will include a group of clinical centers and a DCC to study a number of causes and risk factors for LUTD in men and women.

40 The LURN Network is comprised of six US clinical sites and a DCC. The Steering  
41 Committee is the governing body, consisting of the NIDDK Project Officer and the  
42 Principal Investigators (PIs) from each of the clinical sites and the DCC.

43 This LURN Protocol 1 represents the first protocol of the LURN project. The study falls  
44 under the category of an Observational Study defined as a biomedical or behavioral  
45 research study of human subjects.

46 The NIH further defines an observational study as one which is “designed to assess risk  
47 factors for disease development or progression, assess natural history of risk factors or  
48 disease, identify variations based on geographic or personal characteristics (such as  
49 race/ethnicity or gender), track temporal trends, or describe patterns of clinical care and  
50 treatment in absence of specific study-mandated interventions.”

51 Please reference the Study Directory on the study website (<https://nih-lurn.org/>) for  
52 participating sites’ contact information.

### 53 **1.3.1. Data Coordinating Center (DCC)**

54 Arbor Research Collaborative for Health is the DCC for LURN. The DCC  
55 provides project management, logistical coordination, and statistical leadership  
56 for the development, implementation, and analysis of the LURN studies. In  
57 addition, the DCC will conduct training in protocol implementation, data  
58 management, monitoring, quality control, and development and maintenance of  
59 the MOO. The DCC also supports regulatory and technical functions (i.e., LURN  
60 data entry website). For a complete list of DCC personnel, their roles, and  
61 contact information, please refer to the Study Directory on the study website  
62 (<https://nih-lurn.org/>).

#### 63 **1.3.1.1. DCC Contact Information**

- 64 • Robert M. Merion, MD, FACS, Principal Investigator –  
65 [bob.merion@arborresearch.org](mailto:bob.merion@arborresearch.org),  
66 Phone: 734-665-4108
- 67 • Suzanne Kapica, Project Manager – [Suzanne.kapica@arborresearch.org](mailto:Suzanne.kapica@arborresearch.org) ,  
68 Phone: 734-369-9864
- 69 • Peg Hill-Callahan, Clinical Study Process Manager – [peg.hill-](mailto:peg.hill-callahan@arborresearch.org)  
70 [callahan@arborresearch.org](mailto:peg.hill-callahan@arborresearch.org), Phone: 734-369-9674
- 71 • Tim Buck, Study Monitor – [jtimothy.buck@arborresearch.org](mailto:jtimothy.buck@arborresearch.org) , Phone: 734-  
72 369-9958
- 73 • All DCC – [LURN-DCC@arborresearch.org](mailto:LURN-DCC@arborresearch.org)
- 74 • Monitoring Staff – [LURN-Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org)
- 75 • Fax – 734-665-2103

76 The DCC recommends that study personnel use the DCC group email to ensure  
77 timely responses.

78 **1.3.2. Clinical Sites and Principal Investigators**

79 Duke University  
80 Durham, NC  
81 Co-Principal Investigators: Cindy L Amundsen, MD; Kevin P. Weinfurt, PhD  
82 (Steering Committee Co-Chair)

83 Northwestern University  
84 Chicago, IL  
85 Co-Principal Investigator: David Cella, PhD

86 NorthShore University Health System (Northwestern Sub-site)  
87 Glenview, IL  
88 Co-Principal Investigator Brian T. Helfand, MD, PhD

89 University of Iowa  
90 Iowa City, IA  
91 Co-Principal Investigators: Catherine S. Bradley, MD MSCE; Karl J. Kreder, MD,  
92 MBA

93 The following site identifying numbers are used in conjunction with survey  
94 communication.

<u>Centers</u>	<u>Site Numbers</u>
Duke University	01
Northwestern University	02
University of Iowa	03
NorthShore University Health System	07

95 **1.3.2.1. Role and Responsibilities of Investigators and Study Sites**

96 The roles and responsibilities of the investigators and study sites will include:

- 97 • Maintenance of a study binder;
- 98 • Participation in protocol finalization and preparation of study materials;
- 99 • Compliance with protocol, MOO, IRB, and Federal and State regulations;
- 100 • Membership in a Steering Committee and other committees;
- 101 • Recruitment, screening, and enrollment of participants;
- 102 • Protections of participants' rights;
- 103 • Data collection and participant follow-up through study completion;
- 104 • Transfer of data to the DCC and resolution of queries;
- 105 • Retention of study specific records;
- 106 • Communication of questions, concerns, and/or observations to the DCC.

107 **1.3.3. External Expert Panel (EEP)**

108 The EEP has been established by the NIDDK. The EEP is currently composed of  
109 clinical urologists, researchers, epidemiologists, psychometricians, government  
110 agency representatives, and biostatisticians. The EEP will provide scientific  
111 oversight and advice for the duration of the Network. The Panel reports to the

112 NIDDK. The EEP will meet in person at least once per year to provide a review of  
113 all study protocols prior to implementation for their likelihood to achieve the  
114 overall goals established by the NIDDK. Telephone conference calls of the EEP  
115 will be scheduled on an as needed basis. The EEP will evaluate the study  
116 progress, review ancillary study proposals (if applicable) prior to implementation,  
117 and monitor the safety of study participants. Reference the EEP Responsibilities  
118 and Operating Procedures, and EEP Membership List (**Appendix B**) for  
119 additional information regarding the EEP.

#### 120 **1.3.4. LURN Website**

121 Publicly accessible information about the LURN project is available on the LURN  
122 website home page. Some portions of the website are password-controlled to  
123 limit access to study group members (Clinical Centers, DCC, NIDDK, and the  
124 EEP), protect the integrity, security, and confidentiality of sensitive project  
125 information and the information system, and allow auditing of appropriate use.

126 The website contains workgroup/subcommittee member lists, meeting agendas,  
127 materials, and minutes, slides and presentations, master documents (including  
128 final protocols and consent templates), calendar of events, and study directory.

#### 129 **1.3.5. Website URL and Access Instructions**

130 The URL for the LURN website is <https://nih-lurn.org/>. Website management  
131 resides with the DCC. The DCC is responsible for login accounts, study directory  
132 updates, postings, and maintenance. Upon assigning a username and password,  
133 an automatic welcome email will be generated, informing the user that access  
134 has been granted to the restricted areas of the website. Users must change their  
135 system-assigned password within 72 hours of the welcome email receipt or  
136 website access will be denied.

137 Usernames and passwords should not be shared. New personnel requiring  
138 access to the LURN website should request a unique username and password.  
139 For new account requests or trouble with usernames and passwords, please  
140 contact Rachel Marsden ([rachel.marsden@arborresearch.org](mailto:rachel.marsden@arborresearch.org)/734-369-9676) at  
141 the DCC.

## 142 **2. IRB SUBMISSION AND REGULATORY DOCUMENTS**

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143 Essential documents are those documents that individually and collectively permit  
144 evaluation of the conduct of a study and the quality of the data produced. These  
145 documents serve to demonstrate the compliance of the investigator, sponsor, and the  
146 monitor with the standards of Good Clinical Practice (GCP) and with all applicable  
147 regulatory standards. The following is the minimum list of essential documents that has  
148 been developed.

### 149 **2.1. Protocol Version Control, Finalization, and Approval Process**

150 Protocol version control is extremely important to ensure that all participating sites and  
151 their respective Institutional Review Boards (IRBs) receive identical documents. Before a



152 protocol is considered final and versioned (e.g., Version 1.0), it must go through a formal  
153 review by the LURN Steering Committee. The protocol is then reviewed by the EEP and  
154 the NIDDK. Once finalized, the protocol document, consent templates, and any  
155 supplemental materials will be distributed to the sites by the DCC. Sites should submit  
156 only materials distributed by the DCC to their IRBs. Finalized protocols must NOT be  
157 edited, changed, or altered.

158 All amendments (a written description of a change(s) to or formal clarification of a  
159 protocol) must undergo a similar approval process. Sites should only submit protocols  
160 and amendments to IRBs as instructed by the DCC or NIDDK.

## 161 **2.2. Consent Form Finalization and Approval Process**

162 Protocol-specific consent document templates will be provided to all LURN sites. Site-  
163 specific language should be inserted into the templates. Please refer to **Appendix C** to  
164 view the Consent Templates.

165 Each site-specific informed consent (IC) form will be reviewed by the DCC for inclusion  
166 of all essential elements and compliance with Federal Regulations and NIDDK  
167 Repository language. The DCC and the NIDDK Repository staff will review the site's  
168 consents, and return the reviewed/edited draft consents to the sites for correction and  
169 submission to the IRBs. Below is a set of instructions detailing the DCC and NIDDK  
170 Repository review/approval process of the site-specific consent form(s).

171 ***The first seven steps below must be completed prior to submitting any consent***  
172 ***documents to the IRB.***

- 173 1) Forward the IC documents to the DCC for review ([LURN-](mailto:LURN-Monitors@arborresearch.org)  
174 [Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org)).
- 175 2) Once IC documents have been reviewed and changes made, the DCC will return  
176 the reviewed/edited draft IC documents to the site.
- 177 3) The site will make the required changes to the consent forms, and send the  
178 revised consents to the DCC for re-review.
- 179 4) The DCC will forward the draft IC documents to the NIDDK Repository reviewer  
180 for review of the particular NIDDK Repository language.
- 181 5) The NIDDK Repository reviewer will send their comments to the DCC as to  
182 whether the consents have NIDDK approval or need changes made in the  
183 consent documents.
- 184 6) The DCC will notify the site of the NIDDK reviewer response to the review of the  
185 consents. If further changes are requested by the NIDDK, the site makes the  
186 consent changes, and sends the consents to the DCC lead clinical monitor for  
187 review and approval.
- 188 7) If the NIDDK reviewer approves the consents, the DCC will send the notification  
189 to the site who will submit the consent documents to its respective IRB.
- 190 8) The IRB may require changes to the consent form(s). Please forward requested  
191 changes to the DCC lead clinical monitor for review prior to resubmission to the  
192 IRB.
- 193 9) The IRB approval will be in the form of a letter or memo. The notification should  
194 include the title of the protocol, version number, PI name, and the IRB members.  
195 The memo should state that approval has been granted to open or continue the  
196 study.

- 197 10) The site will send a copy of the IRB approval and copies of the IRB approved  
198 consents to the DCC lead clinical monitor.  
199 11) The DCC will then forward the site IRB approval and copies of the approved  
200 consents to the NIDDK Repository reviewer who will generate an approval letter  
201 addressed to the PI of the site.  
202 12) The NIDDK Repository reviewer will send the NIDDK approval letter to the site PI  
203 and a copy at the DCC.  
204 13) The site will file the NIDDK approval letter in their regulatory file.

205 File the IRB-approved consent documents (memo, consent, and other documents) in the  
206 site regulatory binder. Scan all IRB approved documents and send electronically to the  
207 DCC. Throughout the course of the study, the DCC will request these documents when  
208 there is an amendment to the LURN Protocol 1, and at the time of each site's IRB  
209 annual renewal.

210 The DCC will send their annual IRB Continuing Renewal approval to the NIDDK  
211 Repository reviewer until the study is closed. The NIDDK Repository does not require  
212 receipt of copies of the site's annual IRB Continuing Renewal approvals.

### 213 **2.3. Essential Documents for the Conduct of an Observational Study**

214 **Required regulatory documents are to be kept on file at the site. Please refer to**  
215 **Appendix D for a list of Regulatory Binder tabs.**

216 If the site maintains master files for Curriculum Vitae (CVs), regulatory documents, etc.,  
217 then a note to file should be placed in the study-specific regulatory binder to reflect the  
218 location of the documents.

219 **Remember, when the study is finished and ready for archiving, all documents in**  
220 **the master files must be copied to be study-specific. During the conduct of the**  
221 **study, the documents will be stored for the length of time designated by the**  
222 **sponsor (NIDDK).**

223 The following documents must be maintained in the regulatory binder throughout the  
224 study (see **Appendix D**):

#### 225 **1) Study Protocol**

- 226 • Maintain a copy of the original IRB/Ethics Research Committee (ERC)-  
227 approved protocol for the study and any subsequent IRB/ERC-approved  
228 revisions/amendments to the protocol.
- 229 • Any changes to the protocol must be submitted to and approved by the IRB  
230 prior to implementation.
- 231 • Include full copies of all final versions, stored in reverse chronological order  
232 with the current approved version first.
- 233 • IRB/ERC submission/approval of revisions/amendments should be filed  
234 under Section IRB Approvals in the Regulatory Binder.

#### 235 **2) Curriculum Vitae (CV): Investigators and Sub-Investigators**

- 236 • To document qualifications and eligibility to conduct studies and/or provide  
237 medical supervision of subjects. Ensure the CV is complete and contains the  
238 following information:

- 239 ○ Current appointments/positions/citations, etc.
- 240 ○ Start and end dates (or “to present”) for all appointments and
- 241 positions (no date gaps).
- 242 ○ Signed and dated (on first page) by the investigator (or sub-
- 243 investigator) and all study personnel to verify document is current.
- 244 ● Updated CVs are to be filed bi-annually.
- 245 ● CVs may be kept in a “Master File” during the conduct of the study, but all the
- 246 CVs must be archived with the study at the end of the trial.

### 247 3) Medical Licenses

- 248 ● Maintain copies of all licenses for licensed personnel (e.g., MDs, PhDs,
- 249 Nurses, etc.) for the duration of the study.
- 250 ● Licenses may be kept in a “Master File” during the conduct of the study, but
- 251 all the licenses must be archived with the study at the end of the study.

### 252 4) IRB Approval

- 253 ● Documentation of the provision of IRB review and approval of the protocol
- 254 ensures that the study is conducted with the appropriate local regulatory
- 255 oversight. IRB approval will be obtained prior to the initiation of the study, and
- 256 maintained throughout the conduct of the study and data analysis phase.
- 257 Sites should maintain current IRB approval until directed by the DCC to close
- 258 the study.
- 259 ● All IRB approval letters must be on file. They include, but are not limited to,
- 260 the protocol, consent(s), study advertisement(s), training and educational
- 261 materials, participant letters, questionnaires, or any other documents
- 262 receiving IRB approval or opinion. All of these documents must be forwarded
- 263 to the DCC. **NOTE:** If contingent approval is granted, evidence of final
- 264 approval must be present before the study can be implemented.
- 265 ● All annual or periodic renewals.
- 266 ● Approval letter for any protocol amendments and modifications (the sponsor
- 267 and the IRB must approve all protocol changes prior to implementation
- 268 unless the change is intended to eliminate an apparent immediate hazard to
- 269 subjects).
- 270 ● Any local or country-specific regulatory authorization relating to the protocol.
- 271 ● All approval letters from the IRB should be addressed to the PI and should
- 272 include the following information:
  - 273 ○ Protocol title, number, and version;
  - 274 ○ Actual date of IRB approval;
  - 275 ○ Specifically state approval of the protocol;
  - 276 ○ IRB chairperson’s or designee’s signature;
  - 277 ○ Renewal date or statement indicating when the approval must be
  - 278 renewed;
  - 279 ○ List of the documents approved;
  - 280 ○ List of all sites covered by the IRB approval.

### 281 5) IRB Membership List

- 282 ● The IRBs composition is constituted in agreement with GCP.
- 283 ● IRB/ERC information including membership list, chairperson, and general
- 284 assurance number or a letter stating that the IRB is in compliance with GCP.
- 285 ● IRB membership list must be current.

- 286                   ○ If your IRB does not release its membership list, a DHHS Multiple  
287 Assurance Number must be submitted on the IRB letterhead.  
288                   ○ If the IRB does not allow access to their membership list, then an  
289 anecdotal note must be written to reflect the standard operating  
290 procedure of the IRB and the note must be filed in the regulatory  
291 binder.

292 **6) Screening Logs**

- 293                   • Maintain electronic screening logs throughout the course of the study.  
294                   • Screening logs contain information (including reason for failure to screen)  
295 regarding all potential participants approached for participation in the study  
296 and the outcome of that encounter. Please refer to Section 7 for further  
297 details about eligibility. Interview screening logs will also be utilized in the  
298 study and details on the logs can be found in Section 4.1.1.

299 **7) Roles and Responsibilities**

- 300                   • Contains the list of all study personnel who are involved in the primary  
301 conduct of the study at the site. It documents responsibilities assigned to  
302 research team members and their dates of involvement in the project. It helps  
303 to ensure the appropriate delegation of study related tasks, and documents  
304 authenticity of the written signature of personnel involved in the conduct of  
305 the study.  
306                   • Maintain a list of all study personnel on appropriate form and include:  
307                   ○ Initials;  
308                   ○ Printed name;  
309                   ○ Legal signature, including first and last name;  
310                   ○ List of delegated responsibilities;  
311                   ○ Start and end date for delegated responsibilities.  
312                   • Included as appendix to regulatory binder. Included in MOO as **Appendix E**.

313 **8) Human Subjects Research Certification**

- 314                   • All investigators, sub-investigators, and study personnel listed on the  
315 delegation of responsibilities log must complete research ethics training.  
316                   • Any course on the protection of human subjects provided by your institution  
317 will meet this requirement. The course title, student's name, and dates of  
318 completion and expiration (if applicable) must be on the certificate. A brief  
319 description of the course must also be placed on file. If the site-specific  
320 course is one that does not expire, this should be outlined in the description  
321 provided.  
322                   • Training and certification can also be obtained at the following website:  
323                   ○ NIH: Protection of Human Research Subjects – <http://ohsr.od.nih.gov>  
324                   • New study personnel must complete all of the required human subjects  
325 training, and their addition must be approved by the IRB prior to their  
326 contributing to the study.

327 **9) Safety Reporting – Serious Adverse Event (SAE)**

- 328                   • There will be no need for SAE reporting in this observational study.  
329                   • Participants in the study will be told as part of the IC process that they may  
330 drop out of the study if they experience any discomfort.

331 **10) Major Sponsor, DCC, and IRB Correspondence**

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- Maintain a copy of all correspondence (e-mails, letters, faxes, memoranda, and phone contacts) between the investigator or research staff, Sponsor, and DCC relating to the **clinical** conduct of the study, especially correspondence pertaining to:
    - Site activation letter;
    - Protocol decisions (by phone or e-mail);
    - Protocol deviations;
    - Protocol modifications;
    - EEP roster and letters from the Project Officer.
  - Maintain a copy of all pertinent communications with the IRB relating to the study (e.g., Study Hold, Removal of Subject, Protocol Deviation, and Notice of Final Study Report).

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#### 11) Investigator Signature Page

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- Documents investigator and sponsor agreement to the protocol and/or amendment(s).
  - Site PIs are required to sign the investigator signature page.
  - The site PI must sign a new signature page for any amendment.
  - Submit a scanned copy to the DCC ([rachel.marsden@arborresearch.org](mailto:rachel.marsden@arborresearch.org)) and file the original in this section.

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#### 12) IRB-Approved IC Forms

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- Maintain copies of the original IRB approval and any subsequent IRB approved revisions/amendments to IC or consent addenda. Additional consent documents (e.g., screening consents) should be obtained per site requirements.
  - Ensure that a version number and date is included on all consent documents.
  - Include IRB approval letter with the IC if the IRB does not stamp the document.
  - IRB approved consent documents should not be altered by the subject or study staff personnel during the consenting process. Check-offs, signatures, and dates are the only pieces of information that need to be written in on the consent. Crossing out sections or adding additional comments in the consent are not allowed according to federal regulations.
  - Consent form documents must be stored in reverse chronological order with the current approved version first. Place the most currently approved consent form(s) in a plastic sleeve. **NOTE:** Any changes to the consent form must be submitted to, and approved by the site's IRB prior to use.

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#### 13) Advertisements/Educational Materials

- 369
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- After IRB approval, maintain copies of all advertisements (e.g., fliers, radio announcements, newspaper/internet advertisements), and educational materials (e.g., slide shows) utilized for the study.
  - All materials filed in this section and used in the study should be IRB approved and clearly listed on IRB approval letters/notices.

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CVs, medical licenses, IRB approvals, laboratory certifications/accreditations (if applicable) should be kept current. Current copies of required documents (IRB approvals) should be forwarded electronically to the DCC when available. The DCC will assist sites in monitoring annual IRB renewals.

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### **3. SITE TRAINING AND ACTIVATION**

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#### **3.1. Site Training**

380 Site staff will receive study training prior to implementation of the study. Reference the  
381 LURN Site Training Slides in **Appendix F** for additional information. Training will include,  
382 but not be limited to, review of:

- 383 • Main protocol;
- 384 • Informed consent process;
- 385 • MOO;
- 386 • Data collection;
- 387 • Study-specific procedures (Interviewing process, conducting WRAT reading  
388 subtest, etc);
- 389 • Use of LURN Website;
- 390 • Use of Box for sending secure audio files and completed questionnaires.

391 **Please notify the DCC of new study team personnel so they can receive the**  
392 **appropriate training and website access.**

#### **4. STUDY MONITORING**

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394 Each PI will be responsible for overseeing the trial at their institution and the DCC will be  
395 responsible for monitoring the conduct of the study. Monitoring responsibility will extend  
396 to determination of accurate and effective conduct of the protocol, and to  
397 recommendations regarding closure of the study. The NIDDK has appointed an  
398 independent EEP that will review the protocol prior to any clinician or participant  
399 recruitment, and will continue to monitor the study's safety and progress through regular  
400 reports prepared by the DCC and periodic meetings.

401 Oversight of monitoring will be performed to ensure that: 1) monitoring activities are  
402 appropriate to the study; 2) monitoring is accomplished in a regular, timely, and effective  
403 manner; and 3) recommendations that result from study monitoring are implemented in a  
404 timely fashion.

405 Accepted principles of data and safety monitoring will be observed throughout the  
406 conduct of the LURN Protocol 1. Since the study is observational, and there are no  
407 research procedures that will produce SAEs, reporting will not be necessary as there are  
408 no anticipated SAEs during the conduct of the trial.

409 Monitoring is the act of overseeing the progress of a study, and of ensuring that it is  
410 conducted, recorded, and reported in accordance with the protocol, Standard Operating  
411 Procedures (SOPs), GCP, and the applicable regulatory requirement(s). Monitoring will  
412 be conducted via remote monitoring. Monitoring helps to catch problems and  
413 noncompliance before the actions become repetitive. It can identify systemic issues  
414 which can be corrected before a study is jeopardized. Screening logs will be monitored  
415 on a weekly basis by the DCC.

416 Remote monitoring will occur at the DCC, and site-specific information in the form of  
417 reports reflecting data completion, integrity, and quality will be produced. These reports  
418 will be generated at least monthly and will be shared with the sites and NIDDK.

## 419 **4.1. Monitoring of Site Specific Information**

### 420 **4.1.1. Screening Logs (Clinician, Qualitative, and Cognitive)**

- 421 • The completed screening logs should be emailed by the sites to the DCC  
422 ([LURN-Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org)) every Friday of each week.
- 423 • Sites should include the date of the submission of the screening logs in the  
424 naming of the document in addition to the name of the site sending the logs.
- 425 • The DCC will review the screening logs and acknowledge receipt of the  
426 screening logs through an email to the sites.
- 427 • If no screening has taken place at the site, enter a note on the log to indicate  
428 no screening/interviewing for the week and send to the DCC.
- 429 • The DCC will query the sites should any questions arise following review of  
430 the screening logs.
- 431 • If the screening log must be revised, the site responsible for the log will revise  
432 the log and send back to the DCC with the new revision date in the naming of  
433 the screening log.
- 434 • Screening log information will be collated by the DCC and entered into  
435 separate spreadsheets for each of the interviews (clinician, qualitative, and  
436 cognitive).
- 437 • The screening logs will be reviewed by the Self-reported Measures  
438 Workgroup and the Project Executive Committee (PEC) on a weekly basis.
- 439 • Particular attention will be paid to recruitment issues and racial and ethnic  
440 diversity to ensure there is at least 25% of the interviews being conducted  
441 involve non-white race or Hispanic/Latino ethnicity.
- 442 • Refer to **Appendix G** for the screening log templates.

### 443 **4.1.2. Interview Questionnaires (Clinician, Qualitative, and Cognitive)**

#### 444 **Clinician Questionnaires**

- 445 • The DCC will provide a fillable interview questionnaire for the clinician  
446 interviews (**Appendix H**).
- 447 • Clinicians will be asked to list and identify the most important and  
448 prevalent LUTD symptoms and concerns using open-ended queries
- 449 • An interviewee from Northwestern and NorthShore University Health  
450 System will conduct the clinician interviews and document the results on  
451 a clinician survey form (LURN Protocol 1 – Appendix A) while also  
452 recording the interview.
- 453 • Themes, symptoms and concerns provided by the clinicians (physicians,  
454 nurses or physician assistants) will be reviewed during the Self-reported  
455 Measures Workgroup teleconferences.
- 456 • The completed questionnaires should be sent through Box to the DCC  
457 every Friday. Refer to **Appendix I** for Box instructions.
- 458 • Audio recordings will be transcribed at the DCC.

- 459 **Qualitative Questionnaires**
- 460 • The DCC will provide a fillable interview questionnaire for the qualitative
  - 461 interviews (**Appendix H**).
  - 462 • The LUTS Tool will be utilized in the qualitative interviews and the
  - 463 interviewee will be asked to rate how much each symptom bothers them
  - 464 on a scale of 0-10 with 0 being no bother and 10 being the highest
  - 465 possible bother.
  - 466 • Two interviewers at Northwestern, University of Iowa, Duke University
  - 467 and NorthShore University Health System will conduct the qualitative
  - 468 interviews and document the results on a qualitative survey form (LURN
  - 469 Protocol 1 – Appendix B) while also recording the interview.
  - 470 • Following each interview, audio recordings, scanned copies of interview
  - 471 notes, and scanned copies of the LUTS Tool will be sent to the DCC
  - 472 through Box.
  - 473 • Audio recordings will be transcribed at the DCC.

- 474 **Cognitive Questionnaires**
- 475 • Interviewers at Northwestern, University of Iowa, Duke University and
  - 476 NorthShore University Health System will conduct the cognitive interviews
  - 477 and document the results on a cognitive survey form (LURN Protocol 1 –
  - 478 Appendix C) while also recording the interview.
  - 479 • Following each interview, audio recordings and scanned copies of
  - 480 interview notes will be sent to the DCC through Box.
  - 481 • Audio recordings will be transcribed at the DCC.

## 482 **5. OBTAINING & DOCUMENTING INFORMED CONSENT**

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### 483 **5.1. Informed Consent Process**

484 A signed IRB-approved IC document must be obtained from each subject. Written  
485 consent should only be obtained after the PI or investigator's delegate is confident that  
486 the subject or legal guardian understands the information presented to the subject.

487 An investigator or their designee shall seek consent only under circumstances that  
488 provide the prospective subject or the representative sufficient opportunity to consider  
489 whether or not to participate, and that minimize the possibility of coercion or undue  
490 influence.

491 The IRBs at Northwestern and NorthShore University Health System have indicated that  
492 clinicians will not need to sign an informed consent prior to their participation in the  
493 Clinician Survey (Project 1A) portion of Protocol 1.

#### 494 **5.1.1. Definition of Screening Statuses**

- 495 1) *Agreed (Eligible)*: The subject meets the eligibility criteria, agrees to
- 496 participate to the study, and signs the approved study consent.
- 497 2) *Refused (Eligible, declined participation)*: The subject meets the eligibility
- 498 criteria for the study, but refuses to participate in the study.



- 499 3) *Not Approached (Eligible, Lost to Follow-up)*: The subject meets the eligibility  
500 criteria, contact is attempted and the subject cannot be found.  
501 4) *Not Eligible*: The subject does not meet the eligibility criteria (if not eligible,  
502 please give reason).  
503 5) *Other*: When this option is used, a comment must be entered onto screening  
504 log.

### 505 **5.1.2. Re-consenting Subjects Due to Amendments to the Protocol**

506 The PI at each site determines the need for re-consenting based on the protocol  
507 amendment and the subject population. In the case of uncertainty on the part of  
508 the PI, the site's IRB should be consulted.

### 509 **5.1.3. Consenting Non-English Speaking Subjects**

510 Subjects who cannot speak English are specifically excluded from the LURN  
511 Protocol 1.

## 512 **5.2. Documentation**

513 Site personnel must document in the subject's medical record that the participant has  
514 signed the informed consent, met enrollment criteria, and was enrolled into the LURN  
515 Protocol 1 study. If the participant is recruited from the community, then the above  
516 documentation should be included in a participant's research record created for this  
517 study. Other pertinent details of the consent process, including summaries of telephone  
518 conversations with subjects, must also be carefully documented in the medical record.  
519 Refer to **Appendix C** for the form that documents the IC process.

520 The signed IC document should be maintained in the following locations:

- 521 • The original form is placed in the subject's research file.
- 522 • A copy is to be placed in the participant's medical chart (if the participant is a  
523 patient at the clinic).
- 524 • Subject or legal guardian will receive a copy.

525 Master files of signed consents at the sites are not condoned. All the subject's study  
526 related documents are to be maintained in the subject's research file.

## 527 **5.3. Health Insurance Portability & Accountability Act (HIPAA)** 528 **Authorization**

529 The HIPAA authorization form may be a separate document from the IC, and be  
530 reviewed and signed by the study participant in addition to reviewing and signing the  
531 consent form. The format of the HIPAA authorization is established by the site's local  
532 IRB. Investigators should review information provided in Protecting Personal Health  
533 Information in Research: Understanding the HIPAA Privacy Rule, NIH Publication 03-  
534 5388 at <http://privacyruleandresearch.nih.gov>.

## 535 **5.4. Subject Identification Numbers**

536 The subjects in the LURN Protocol 1 study will have a unique subject identification  
537 number. Physicians and healthcare providers who participate in the clinician interviews  
538 (Protocol 1A) will be assigned an ID number starting with the letters CL. Individuals who  
539 participate in the qualitative interviews (Protocol 1B) will be assigned an ID number  
540 starting with the letters QL, and individuals who participate in the cognitive interviews  
541 (Protocol 1D) will be assigned an ID number starting with the letters CG.

542 Every ID number will have four digits after the two letters. Participants recruited by Duke  
543 University staff will be assigned consecutive numbers 1000 through 1999. Participants  
544 recruited by Northwestern University staff will be assigned consecutive numbers 2000  
545 through 2999. Participants recruited by the University of Iowa staff will be assigned  
546 consecutive numbers 3000 through 3999. Participants recruited by NorthShore  
547 University Health System will be assigned consecutive numbers 7000 through 7999.

## 548 **6. PROTOCOL & APPENDICES**

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549 Please refer to **Appendix A** for the LURN Protocol 1 and associated appendices.

### 550 **6.1. Study Design**

#### 551 **6.1.1. Clinician Survey (Project 1A)**

552 Primary Care Physicians (including Internal Medicine and Family Practice  
553 Specialties) will be interviewed about their clinical experience with LUTD patients  
554 to document the concerns of these patients.

555 Interviews will be conducted either in person or over the telephone.

556 Clinicians will be asked to list and identify the most important and prevalent  
557 LUTD symptoms and concerns using open-ended queries. Clinicians will also be  
558 asked to help generate patient-friendly language for symptoms. An interviewer  
559 from Northwestern University and NorthShore University Health System will  
560 conduct the clinician interviews and document the results on a clinician survey  
561 form (LURN Protocol - Appendix A). Themes, symptoms, and concerns provided  
562 by the clinicians (specialty clinicians, primary care physicians, physician  
563 assistants and nurses) will be reviewed during the Self-reported Measures  
564 Workgroup teleconferences. New items will be created for areas that are not  
565 covered by existing tools. Interviews will be audio-recorded and transcribed.  
566 Copies of recordings and transcriptions will be sent to the DCC via the secure  
567 online file-sharing system Box (see **Appendix I**). Clinicians will be compensated  
568 \$125 for participation.

##### 569 **6.1.1.1. Recruitment and Screening**

570 The clinicians needed for this phase will be recruited from the professional  
571 networks of the LURN investigators and will reflect geographic diversity. Eligible  
572 clinicians must meet the criteria as outlined in Section 7.1.1.

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## 7. ELIGIBILITY CRITERIA

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### 574 7.1. Clinician Survey (Project 1A)

#### 575 7.1.1. Eligibility Criteria – Clinician Survey

- 576 • 6 physicians with a urology-related specialty (e.g., urology, urogynecology)
- 577     o 3 who treat mostly men;
- 578     o 3 who treat mostly women.
- 579 • 5 Primary Care Physicians (including Internal Medicine and Family Practice
- 580     Specialties)
- 581 • All participating physicians must meet the following criteria:
- 582     o Board Certified;
- 583     o Practice more than 5 years;
- 584     o Evaluates more than 5 patients a week with LUTS (including men
- 585     and/or women).
- 586 • 4 nurses or physicians assistants who work in urology clinics
- 587     o 2 who work mostly with men;
- 588     o 2 who work mostly with women.

#### 589 7.1.2. Clinician Screening Log

- 590 • A screening log will be utilized to capture potential clinical staff (specialty
- 591     physicians, primary care physicians, and health care providers) approached
- 592     for the Clinician Survey (Protocol 1A) portion of the study at Northwestern
- 593     University (NU), and NorthShore University Health System.
- 594 • Screening log contains information (including reason for failure to screen)
- 595     regarding all potential clinical staff approached for participation in the study
- 596     and the outcome of that encounter.
- 597 • Click on the appropriate answers found in the drop-down list in each of the
- 598     columns when completing the screening log. The comment column allows for
- 599     free text. This enables the DCC to filter/sort clinician information in the log for
- 600     the collation of data for the weekly LURN Clinician Enrollment Report.
- 601 • The screening log will contain the following details:
- 602     o Initials of person screened (First, Last);
- 603     o Date approached (MM/DD/YYYY);
- 604     o Subject type (physician, nurse, or physician assistants);
- 605     o Specialty (mostly male, mostly female, or primary care);
- 606     o Practicing at least five years? (yes or no) - FOR PHYSICIANS ONLY;
- 607     o Board Certified? (yes or no) - FOR PHYSICIANS ONLY;
- 608     o Evaluates at least five patients per week with LUTS? (yes or no) -
- 609     FOR PHYSICIANS ONLY;
- 610     o Works in a urology clinic? (yes or no) - FOR NURSES ONLY;
- 611     o Age (in years, enter 998 if unanswered);
- 612     o Gender (female or male);
- 613     o Race (choose from drop-down list);
- 614     o Ethnicity (choose from drop-down list);
- 615     o Eligible (yes or no);
- 616     o Consent status (If not enrolled, Reason);
- 617     o Clinician, LURN subject ID number (CL####);

- 618 ○ Initials of study coordinator who screened the individual;
- 619 ○ Scheduled date of interview;
- 620 ○ Actual date of interview (fill in when interview has occurred);
- 621 ○ Study coordinator comments.

622 **Once eligibility of the individual has been determined, a unique Study ID**  
623 **can be assigned. The Study ID will be assigned by the institution recruiting**  
624 **the individual (refer to Section 5.4 and copy).**

- 625 • Enter Sample Screen Status Codes in the column under header “Screening  
626 Status.”
  - 627 ○ There are screening log definitions which define the outcome of  
628 potential subjects for enrollment into the LURN Protocol 1 study.  
629 Definitions are as follows:
    - 630 1) *Agreed (Eligible)*: The clinician meets the eligibility criteria,  
631 agrees to participate to the study.
    - 632 2) *Refused (Eligible, declined participation)*: The clinician meets  
633 the eligibility criteria for the study, but refuses to participate in  
634 the study.
    - 635 3) *Not Approached (Eligible, Lost to Follow-up)*: The clinician  
636 meets the eligibility criteria, contact is attempted and the  
637 expert cannot be found.
    - 638 4) *Not Eligible*: The clinician does not meet the eligibility criteria  
639 (if not eligible, please give reason).
    - 640 5) *Other*: When this option is used, a comment must be entered  
641 onto screening log.
  - 642 ○ A number of columns in the screening log have drop-down choices  
643 under the column header which should be used when entering the  
644 data in the log.
- 645 • The DCC will provide separate electronic (Excel) files of the blank screening  
646 logs for the clinical interviewee (specialty clinicians, primary physicians,  
647 physician assistants, and nurses) to each site.
- 648 • Include the name of the site and the date of the log (submission date of the  
649 screening log to the DCC).
- 650 • The completed clinician screening log should be emailed to the DCC ([LURN-](mailto:LURN-Monitors@arborresearch.org)  
651 [Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org)) every Friday of each week to facilitate  
652 enrollment tracking across sites.
- 653 • It is imperative the DCC receives the clinician screening logs every Friday.  
654 Enrollment reports are generated from the data in the logs for the weekly  
655 LURN Protocol 1 Implementation conference call as well as the PEC calls  
656 and Steering Committee conference calls.
- 657 • The DCC will not accept faxed copies of the screening log. It must be  
658 transmitted electronically.

## 659 **7.2. Qualitative Interviews with People Suffering from LUTD Symptoms** 660 **(Project 1B)**

661 Qualitative interviews will be conducted to ensure the completeness of the symptom  
662 framework of LUTD in existing self-report measures and identify new content areas that  
663 may be missing from these tools. Participants will be drawn from the clinical practices of

664 the Northwestern University, NorthShore University Health System, Duke University, and  
665 University of Iowa LURN investigators. All interviews will be conducted by staff at  
666 Northwestern University, NorthShore University Health system, Duke University, and  
667 University of Iowa. All interviews will be face-to-face at the sites. All participants will  
668 provide written informed consent and have an opportunity to ask questions about the  
669 study prior to agreeing to participate. A trained interviewer will use a qualitative interview  
670 guide (LURN Protocol 1 - Appendix B) to ask questions about LUTD as well as  
671 document responses. Interviews will also be audio-recorded and transcribed. Copies of  
672 recordings and transcriptions will be sent to the DCC via the secure online file-sharing  
673 system Box (see **Appendix I**). Each interview is expected to take no more than 90  
674 minutes. The draft interview guide may be modified based on clinician input. After  
675 participation, participants will be compensated \$40 using gift cards or site specific form  
676 of reimbursement (cash). The recruitment strategy and eligibility criteria are described  
677 below.

### 678 **7.2.1. Recruitment Plan**

679 Participants will be recruited from the clinics and local communities of LURN  
680 sites (see **Appendix J** for recruitment material templates). The following  
681 recruitment methods may be utilized:

- 682 • Flyers (e.g., in clinics, shopping centers, subways);
- 683 • Advertisements on websites;
- 684 • Directly through contact with research assistants in the clinics;
- 685 • Local health fairs.

686 As potential participants call in, they will speak with research assistants who will  
687 provide an explanation of the study, screen participants, and enroll subjects as  
688 they agree to be in the study.

689 As part of the screening interview, participants will be asked to spontaneously list  
690 their chief urologic complaints. Their open-ended reports will be compared to our  
691 symptom list in Table 1 of the LURN Protocol 1 (see **Appendix K**), to ensure that  
692 one or more symptoms are present listed.

693 Patients who are found to be ineligible for the study or who report symptoms for  
694 which minimum representation (see Sample section in the LURN Protocol) has  
695 been reached will be told that they do not meet the criteria for the study.

696 Overall recruitment and recruitment of sub-groups will be monitored weekly.  
697 Recruitment efforts will be adjusted as needed by the Self-reported Measures  
698 Workgroup if there are recruiting difficulties to certain subgroups or the minimum  
699 number of patients per symptom.

### 700 **7.2.2. Eligibility Criteria – Qualitative Interviews**

- 701 • 50% men, 50% women currently experiencing one or more LUTD symptoms  
702 based on screening.
- 703 • Within each gender, 50% of patients will be clinic referred, 50% will be drawn  
704 from the community by advertising.

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- Participants from the community must not have sought care for their LUTD symptoms.
  - Participants must be:
    - Currently experiencing any LUTD symptoms;
    - Willing and able to provide written informed consent and actively participate in the interview process;
    - $\geq 18$  years of age at the time of consent;
    - Able to speak and read English.
  - To ensure ethnic and racial diversity, at least 25% will be either non-White or Hispanic/Latino ethnicity.
  - At least 16 participants (50% men and 50% women) will be identified as being likely to have abnormal bladder sensation, including a lack of sensation. These participants will include people with recent lower spinal cord injury, recent lower back surgery, women with a recent difficult vaginal child delivery, women with a recent radical hysterectomy, people with uncontrolled diabetes, as well as individuals age 65+.

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To achieve these targets, recruitment will be halted in each of the following subsamples once the minimum targets, listed below, are reached. A total of 24 additional subjects may be recruited in any subgroups in which thematic saturation has not been reached with the original target sample size.

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- 8 women with potentially abnormal bladder sensation;
  - 8 men with potentially abnormal bladder sensation;
  - 15 women referred from a clinic;
  - 15 men referred from a clinic;
  - 15 women recruited from the community;
  - 15 men recruited from the community.

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Members of the Self-reported Measures Workgroup will review the Qualitative Enrollment Reports on a weekly basis to review target participants recruited to date as outlined above.

### 735 **7.2.3. Qualitative Screening Information**

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The study will utilize a “screening form” after contacting each potential participant for the LURN Protocol 1 study and adhere to the following directions:

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1. Fill in contact name, contact information (phone number and/or email address), date of contact (initiated either by you or the potential participant), reason for unable to contact, and date(s)/times of calls.
  2. Start with standard phone greeting, introduce self and confirm that you are talking to the person who expressed interest in the study.
  3. Describe the study from the IRB-approved informed consent document.
  4. Ask the potential participant if you can ask them a few questions to find out if they are eligible for the study. If they answer “No”, then thank them for their interest and terminate the call. The following statement should be used at any point during the call that the person is found to be ineligible: “Thank you for your answers in the study, however, based on your answers to my questions, you are not eligible to participate.”
  5. If they answer “Yes,” then proceed in asking the participant the questions on the screening form.

- 752 6. If the participant is eligible, continue the screening process and inform the  
753 subject of the following:  
754 “Based on the answers that you just gave me, you are eligible to  
755 participate in this study. This study will consist of an interview lasting 60-  
756 90 minutes. You will receive \$40 when you complete your participation in  
757 this study.”  
758 7. If the participant is not interested, thank them and terminate the call.  
759 8. If the participant is interested, continue. “Great. Can we find time that will  
760 work for you for this study? I can send you some information about the  
761 study as well.”  
762 9. Confirm that the person’s name, email address, phone number, and  
763 mailing address are on the screening form.  
764 10. Ask the potential participant if they have any questions.  
765 11. Answer any questions, and/or have a more senior person call the  
766 participant to follow-up.  
767 12. Thank the potential participant for their time, tell them you look forward to  
768 talking with them in the future, and tell them to “have a nice day.”

769 For further assistance please see **Appendix G** (screening log templates).

#### 770 **7.2.4. Qualitative Screening Log**

- 771 • Each site will maintain a separate participant screening log of those  
772 participants suffering from LUTD who will be approached for qualitative  
773 interviews (Project 1B).  
774 • Screening log contains information (including reason for failure to screen)  
775 regarding all potential subject approached for participation in the study and  
776 the outcome of that encounter. Please refer to Section 7.2.2 for further details  
777 about eligibility.  
778 • Click on the appropriate answers found in the drop-down list found under  
779 most of the columns when completing the screening log. The comment  
780 column allows for free text. This enables the DCC to filter/sort participant  
781 information in the log for the collation of data for the weekly LURN Qualitative  
782 Interview Enrollment Report.  
783 • The screening log will contain the following details:  
784 ○ Initials of person screened (First, Last);  
785 ○ Date of contact #1(MM/DD/YYYY);  
786 ○ Unable to contact (yes or no);  
787 ○ Date of contact #2 (MM/DD/YYYY);  
788 ○ Unable to contact (yes or no);  
789 ○ Date of contact #3 (MM/DD/YYYY);  
790 ○ Unable to contact (yes or no);  
791 ○ Age (In years, enter 998 if unanswered);  
792 ○ Literate? (yes, no, or unknown/declined to answer);  
793 ○ Gender (female or male);  
794 ○ Race (choose from drop-down list);  
795 ○ Ethnicity (choose from drop-down list)  
796 ○ Uncontrolled Diabetes (yes, no, or unknown/declined to answer);  
797 ○ Recent events (surgery, delivery, etc.);  
798 ○ Primary symptom complaint (choose from drop-down list);  
799 ○ Secondary symptoms (choose from drop-down list);

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- Indication of consent status (choose status from drop-down list);
  - Reason not enrolled;
  - LURN subject ID number (QL####);
  - Subject type (clinic sample, community sample, or special sensory sample);
  - Initials of study coordinator who screened the individual;
  - Study coordinator comments.
  - Under the header “Subject Type”, a clinic sample is defined as “a participant seeking care in clinics.” A community sample is defined as “a participant who has LUTD symptoms but has not sought care.” A participant with special sensory is defined as “a participant who is likely to have abnormal bladder sensations or lack of sensation.” These participants will include people with a recent lower spinal cord injury, recent lower back surgery, women with a recent difficult child delivery, women with a recent radical hysterectomy, underactive bladder, people with uncontrolled diabetes, as well as older individuals (age 65+).
  - We anticipate community participants would see a flyer and contact the clinic.
  - The study coordinator will ask if they have ever had treatment in a clinic for LUTD.
  - If the potential participant says yes, he or she should be considered to be an in-clinic participant, regardless of whether the clinic they had been to was a LURN clinic.
  - Enter Sample Screen Status Codes in the column under header “Screening Status.”
    - There are screening log definitions which define the outcome of potential subjects for enrollment into the LURN Protocol 1 study. Definitions are as follows:
      - 1) *Agreed (Eligible)*: The participant meets the eligibility criteria, agrees to participate to the study, and signs the approved IRB study consent.
      - 2) *Refused (Eligible, declined participation)*: The participant meets the eligibility criteria for the study, but refuses to participate in the study.
      - 3) *Not Approached (Eligible, Lost to Follow-up)*: The participant meets the eligibility criteria, contact is attempted and the subject cannot be found.
      - 4) *Not Eligible*: The participant does not meet the eligibility criteria (if not eligible, please give reason).
      - 5) *Other*: When this option is used, a comment must be entered onto screening log.
    - A number of columns in the screening log have drop-down lists which must be used when entering the data in the log.
  - The completed logs should be emailed by the sites to the DCC ([LURN-Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org)) every Friday of each week to facilitate enrollment tracking across sites.
  - Include the name of the site and the date of the log (submission date of the screening log to the DCC).
  - The DCC will not accept faxed copies of the participant screening log. It must be transmitted electronically. Included in the MOO as **Appendix G**.



- 849 • Once the site has identified participants who meet the eligibility criteria, and  
850 have completed the informed consent process, the study coordinator  
851 schedules an interview with the participant and enters the information on the  
852 “Qualitative Interview Log.”
- 853 • The Qualitative Interview Log is submitted to the DCC every Friday following  
854 the same process as defined above.
- 855 • A template interview log is included in the MOO as **Appendix G**.

### 856 **7.3. Item Writing (Project 1C)**

857 Item writing will occur after completion of the open-ended, qualitative phase. Prior to  
858 writing new items, the investigators will create an item library (demarcated by measure name,  
859 item ID, item context, item stem, response options, and sub-domain thematic area) which will  
860 consist of all existing questionnaires and items for which LURN has been given permission to  
861 use, or items that are free of intellectual property concerns. These items will be derived from a  
862 variety of tools (e.g., the LUTS tool, the AUA-SI). This database will be in the form of an “item  
863 matrix,” which can be used to keep track of items, changes to items, and the rationale for any  
864 changes to items. The team of people writing new items will consist of LURN investigators. All  
865 members of LURN will be invited to contribute, and the team will seek guidance from specific  
866 members as needed. During working group teleconferences, potential new items identified from  
867 clinician surveys and patient qualitative interviews will be presented for review

#### 868 **7.3.1. Recruitment and Screening**

869 Since this phase involves the item writing for Project 1D, patients will not be  
870 recruited or enrolled.  
871

#### 872 **7.3.2. Item Matrix**

873 See Appendix M Domain Framework  
874

#### 875 **7.3.3. Item Writing**

876 The principle for rewriting items will be to preserve as much as possible of the original item,  
877 but to help the item fit within the broader administration framework, and to clarify items  
878 when needed. Reasons for items to be revised are clarity, precision, acceptability to  
879 respondents and adaptation to a standard data collection format.  
880

881 Item Writing Standards include:

- 882 • Each question will be written in second person, past tense
- 883 • Questions will say “in the past seven days” instead of “in the past week”  
884  
885

886  
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888  
889

## 890 **7.4. Cognitive Interviews (Project 1D)**

891 Cognitive interviews will occur after completion of the open-ended, qualitative phase, as  
892 well as after the new items from the pool are added. Cognitive interviews rely on  
893 intensive verbal probing of participants by a trained interviewer after the respondents  
894 complete each item on a paper-and-pencil version of the questionnaire of interest.  
895 Interviews will be audio-recorded and transcribed. Copies of recordings and  
896 transcriptions will be sent to the DCC via the secure online file-sharing system Box (see  
897 **Appendix I**). Participants will receive \$40 for this study, using gift cards or site specific  
898 form of reimbursement.

### 899 **7.4.1. Recruitment and Screening**

900 For this phase, recruitment and screening for subjects with LUTS will be identical  
901 to the qualitative interview phase, with one modification. After obtaining informed  
902 consent, the research assistant will present items from the LURN item pool to the  
903 patients. We will also be recruiting a population of subjects who do not have  
904 LUTS symptoms (health controls).

- 905 • After administering the cognitive interview, the research assistant will  
906 administer the Wide Range Achievement Test (WRAT) Reading Subtest  
907 to the participant. See **Appendix L** for the WRAT Reading Subtest  
908 Guidelines, administration, and scoring information.
  - 909 ○ The interviews for the literacy assessment will need to be face-to-  
910 face, and not by phone as the WRAT cannot be administered by  
911 phone.
- 912 • Each item that is part of the cognitive interview will be reviewed by at  
913 least two individuals with low literacy, defined as a reading level less than  
914 ninth grade using the WRAT-4 Reading subtest.
- 915 • Every item will be reviewed by at least 1 White and 1 non-White  
916 participant.
- 917 • Each interview will include approximately 35 items.
- 918 • Participants will read and answer one item at a time, after which they will  
919 be asked to provide feedback on response categories, time frame, item  
920 interpretation, applicability, and overall impression of the items.
- 921 • Cognitive interview are expected to last less than one hour.
- 922 • Interviewers will summarize their findings from each interview.

#### 923 **7.4.1.1. Eligibility Criteria – Cognitive Interviews Participants with LUTS**

- 924 • 50% men, 50% women currently experiencing one or more LUTD symptoms  
925 based on screening.
- 926 • Within gender, 50% of patients will be clinic referred, 50% will be drawn from  
927 the community by advertising.
- 928 • Participants must be:
  - 929 ○ Currently experiencing any LUTD symptoms;

- 930                           ○ Willing and able to provide informed consent and actively participate  
931                           in the interview process;  
932                           ○  $\geq 18$  years of age at the time of consent;  
933                           ○ Able to speak and read in English.  
934                           ● To ensure ethnic and racial diversity, at least 25% of the sample will be non-  
935                           White.  
936                           ● Each item must be reviewed by at least two individuals with low literacy,  
937                           defined as a reading level less than ninth grade using the WRAT- 4 Reading  
938                           subtest.  
939                           ● Participants who complete cognitive interviews cannot be the same  
940                           individuals as those in the qualitative interview phase.

941                           To achieve these targets, recruitment will be halted in each of the following  
942                           subsamples once the minimum targets, listed below, are reached. Additional  
943                           subjects may be recruited if the number of items to be reviewed is greater than  
944                           35, or if items are revised and in need of additional testing.

- 945                           ○ 8 women referred from a clinic;  
946                           ○ 8 men referred from a clinic;  
947                           ○ 8 women recruited from the community;  
948                           ○ 8 men recruited from the community.

949                           Members of the Self-reported Measures Workgroup will review the Cognitive  
950                           Enrollment Reports on a weekly basis to review target participants recruited to  
951                           date as outlined above.

#### 952                           **7.4.1.2. Eligibility Criteria – Cognitive Interviews Participants with LUTS**

953                           Participants without LUTS must be:

- 954                           ● willing and able to provide informed consent,  
955                           ●  $\geq 18$  years of age,  
956                           ● willing and able to consent and actively participate,  
957                           ● able to speak and read English, and  
958                           ● free of significant LUTS. Their responses on the LUTS Tool 1-month version  
959                           administered during screening will include:  
960                           ○ “1-3 times a day” or “4-7 times a day” on question 2 (“during a typical day in  
961                           the past month, how many times did you urinate during waking hours?”),  
962                           ○ “None” or “1 time a night” on question 3 (“during a typical night in the past  
963                           month, how many times did you wake up because you needed to urinate?”),  
964                           and  
965                           ○ “Never” or “Rarely” for every other LUTS Tool item.

966                           Half of the participants without LUTS will be male and half will be female. At least two women  
967                           and two men without LUTS will be over age 60 and at least two women and two men will be  
968                           under age 40.

969                           In addition:

- 970                           1. To ensure ethnic and racial diversity, at least 25% of participants with and without LUT  
971                           will be non-White.  
972

- 973 2. Among the participants with and without LUTS, each item must be reviewed by at least  
974 two individuals with low literacy, defined as a reading level less than ninth grade using  
975 the WRAT- 4 Reading subtest.  
976 3. Participants who complete cognitive interviews cannot be the same individuals as those  
977 in the qualitative interview phase.

978

979 **7.4.1.3. Cognitive Interview Screening Log**

- 980 1) The Data Coordinating Center will create for sites a template Cognitive Interview  
981 Screening Form available on the LURN study website through the check-out  
982 function. Each site will utilize this form when screening for potential participants  
983 for the cognitive Interview portion of the study (Project 1D).  
984  
985 2) The interviewer will follow the steps outlined in the screening form describing the  
986 study to the potential participant from the IRB approved informed consent  
987 document.  
988  
989 3) If the subject agrees to be asked questions about their LUTD, then proceed with  
990 the questions on the Cognitive Interview Screening Form. If the potential  
991 participant does not agree to be asked questions, thank them for their interest  
992 and terminate the call.  
993  
994 4) If the interviewer deems the potential participant to be eligible and the individual  
995 confirms they are interested in the study, continue to gather contact information  
996 from the individual and schedule and date and time for the Cognitive Interview.  
997  
998 5) If the interviewer deems the potential participant to be eligible but the individual is  
999 not interested in participating in the study, the interviewer will thank the individual  
1000 and terminate the call.  
1001  
1002 6) Each site will maintain a separate participant screening log of those participants  
1003 suffering from LUTD who will be approached for cognitive interviews (Project  
1004 1D). The screening log contains information (including reason for failure to  
1005 screen) regarding all potential subjects approached for participation to the study  
1006 and the outcome of the encounters.  
1007  
1008 7) The DCC will provide an electronic (Excel) file for the Cognitive Interview  
1009 Screening Log. A number of columns will have drop-down boxes providing the  
1010 choices for answers which you will click on and will be populated in the  
1011 appropriate field for that participant.  
1012

- 1013 8) If the participant is found to be eligible, the study coordinator will assign a unique  
1014 participant identification number to the individual. Individuals participating in the  
1015 cognitive interviews are assigned an ID # starting with the letters “CG”. Every  
1016 participant ID # will have four (4) digits after the first two letters (CG)  
1017  
1018
- 1019 9) Participants recruited to the study will be assigned consecutive numbers by the  
1020 site’s study staff as follows:
- 1021 • Duke University - consecutive numbers 1000 – 1999 (e.g. participant  
1022 ID # CG1000...)
  - 1023 • Northwestern University – consecutive numbers 2000 – 2999 (e.g.  
1024 participant ID# CG2000...)
  - 1025 • University of Iowa – consecutive numbers 3000 – 3999 (e.g.,  
1026 participant ID # CG3000...)
  - 1027 • NorthShore – consecutive numbers 7000 – 7999 (e.g., participant ID #  
1028 CG7000...)
- 1029
- 1030 10) Sites must check-out their Cognitive Interview Screening Log from the study  
1031 website each time they have information to enter. The log should be named as  
1032 follows: e.g. Name of site, Cognitive Screening Log, MMDDYYYY. The date  
1033 should be the date of submission to the DCC.  
1034
- 1035 11) Add newly screened participants each week to the same Excel screening log.  
1036 Your list of screened individuals will be cumulative in the log from week to week.  
1037
- 1038 12) Save all logs at your site and check-in the Cognitive Interview Screening Log to  
1039 the study website each time a new participant is screened or as often as  
1040 possible.  
1041
- 1042 13) Screening log contains information (including reason for failure to screen) regarding all  
1043 potential subject approached for participation in the study and the outcome of that  
1044 encounter. Please refer to Sections 7.4.1 and 7.4.2 for further details about eligibility.
- 1045 • Click on the appropriate answers found in the drop-down lists found under  
1046 most of the columns when completing the screening log. The comment  
1047 column allows for free text. This enables the DCC to filter/sort participant  
1048 information in the log for the collation of data for the weekly LURN Cognitive  
1049 Interview Enrollment Report.
  - 1050 • The screening log will contain the following details:
    - 1051 ○ Initials of person screened (First, Last);
    - 1052 ○ Date of attempted contact #1 (MM/DD/YYYY);
    - 1053 ○ Unable to contact (yes or no);
    - 1054 ○ Date of attempted contact #2 (MM/DD/YYYY);
    - 1055 ○ Unable to contact (yes or no);
    - 1056 ○ Date of attempted contact #3 (MM/DD/YYYY);
    - 1057 ○ Unable to contact (yes or no);
    - 1058 ○ Age (In years, enter 998 if unanswered);
    - 1059 ○ Gender (female or male);

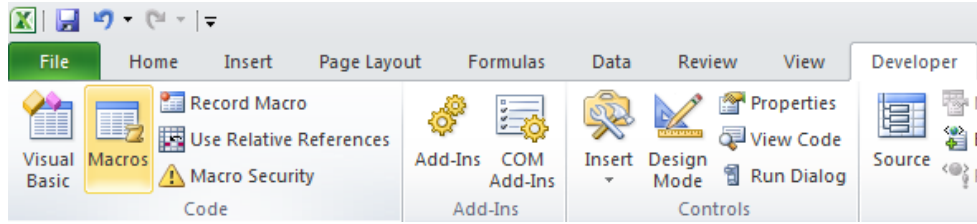
- 1060 ○ Race (choose from drop-down list);
- 1061 ○ Ethnicity (choose from drop-down list), If multi-racial or other, specify;
- 1062 ○ Educational level;
- 1063 ○ Primary symptom complaint (choose from drop-down list), If other
- 1064 primary symptom, specify;
- 1065 ○ Secondary symptom #1 (choose from drop-down list);
- 1066 ○ Secondary symptom #2 (choose from drop-down list);
- 1067 ○ Secondary symptom #3 (choose from drop-down list);
- 1068 ○ Other secondary symptoms, or specify “other”;
- 1069 ○ Consent status (choose status from drop-down list);
- 1070 ○ If not enrolled, Reason;
- 1071 ○ LURN subject ID number (CG####);
- 1072 ○ Subject type (clinic sample, community sample, special sensory
- 1073 sample);
- 1074 ○ Initials of study coordinator who screened the individual;
- 1075 ○ Study coordinator comments.

1078 14) Once the site has identified participants who meet the eligibility criteria, and have  
 1079 completed the informed consent process, the study coordinator schedules an  
 1080 interview with the participant and enters the information on the “Cognitive  
 1081 Interview Log”. The Cognitive Interview log is submitted to the DCC via the study  
 1082 website check-in feature after the addition of each new participant following the  
 1083 same process as defined above.

1085 15) After an interview has been scheduled with a participant, that participant’s  
 1086 questionnaire can be generated using the Cognitive Interview Screening Log  
 1087 spreadsheet. First, on the “Cognitive Screening Log” tab, select the row with this  
 1088 participant’s screening information as shown below (in this case, a questionnaire  
 1089 for participant “JBW” would be created):

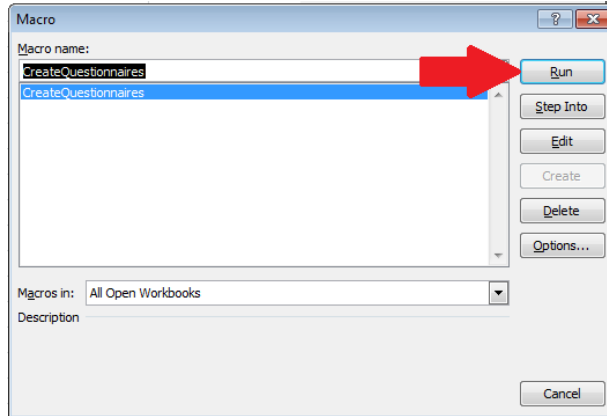
	A	B	C	D	E	F
1	Attempted contact #1			Attempted contact #2		
2	Participant Initials (First, Last)	Site	Date of contact	Unable to contact?	Date of contact	Unable to contact?
3	JBW	Duke	6/12/2015	no		
4						

1091 16) Now, click on the “Developer” tab, and then click the “Macro” button:



1095  
1096  
1097  
1098

17) A window should now appear as below. Click on “CreateQuestionnaires” and then click “Run”:



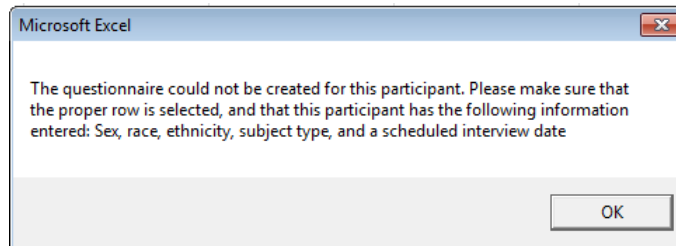
1099  
1100  
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18) The questionnaire sections to be given to this participant should now be populated in columns AS-BA. (Note: not all sections will be populated)

AS	AT	AU	AV	AW	AX	AY	AZ	BA
1st Section of Questionnaire	2nd Section of Questionnaire	3rd Section of Questionnaire	4th Section of Questionnaire	5th Section of Questionnaire	6th Section of Questionnaire	7th Section of Questionnaire	8th Section of Questionnaire	9th Section of Questionnaire
Frequency	Nighttime	Urgency	Flow	Incontinence				

1103  
1104  
1105  
1106  
1107

19) If the questionnaire could not be created, then the following error message will appear:



1108  
1109  
1110  
1111  
1112  
1113

Ensure that this participant has a sex, race, ethnicity, subject type, and a scheduled interview date entered into the spreadsheet. After making any appropriate changes, repeat steps #14-17.

20) Based on what is displayed in columns AS-BA, print out and combine each individual section that is shown to create the questionnaire. The individual

- 1114 questionnaire sections are available on the website. Make sure that every  
1115 questionnaire has the “Section 0 – Face Page” as the first page.  
1116
- 1117 21)The interviewer at the site conducts the cognitive interview with the enrolled  
1118 participant.  
1119
- 1120 22)After the cognitive interview is completed, the research assistant will administer  
1121 the Wide Range Achievement Test (WRAT) Reading Subtest to the participant.  
1122 This test must be administered face-to-face. The WRAT score should be entered  
1123 on the Screening Log in Column AP.
- 1124
- 1125 23)Following the literacy assessment, the cognitive interview recordings, and  
1126 documents should be handled as follows:
- 1127 • Responses from the cognitive interviews are audio-recorded at each  
1128 site
  - 1129 • Following each interview, audio recordings, scanned copies of the  
1130 interview notes will be sent to the DCC via a secure online file-sharing  
1131 system called “BOX”
  - 1132 • Follow the “Box.com Instructions” in the document attached.
  - 1133 • Audio recordings will be transcribed at the DCC
  - 1134 • Site’s study personnel transferring the interview documents to the DCC  
1135 will be provided a link to “BOX” prior to sending the materials to the  
1136 DCC.

## 1137 **7.5. Strategies for Approaching Participants**

1138 It is critical that site personnel put careful thought into how to maximize subject accrual  
1139 and retention. Integration of research studies into existing clinical flow will enhance  
1140 acceptance and cooperation with colleagues, as well as minimizing wasted time and  
1141 frustration for the subject.

1142 Prior to implementation, study staff should meet together to discuss implementation  
1143 strategies, thinking about the following questions:

- 1144 • How do you find out when patients will be seen in clinic? How will you know if the  
1145 clinic appointment has been rescheduled?
- 1146 • How will you know who is being considered for the study?
- 1147 • What kind of communication do you need to establish with your clinical team?  
1148 Will the study coordinator need to attend meetings of this group?
- 1149 • When is the last time the patient was in your facility? What is the estimated  
1150 interval?
- 1151 • If there is a short time period (or none), then you will need to develop a plan to  
1152 approach the subject prior to final acceptance. When is the optimal time?
- 1153 • How long do you think you will need to explain the study and obtain informed  
1154 consent from the potential subject? Where will you do that? In clinic or in the  
1155 research area?



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## 8. DATA MANAGEMENT

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1157 The DCC has a comprehensive security plan for LURN Protocol 1 study data. The robust  
1158 security plan was prepared with extensive consultation, and has been approved by  
1159 Health Resources and Services Administration (HRSA). The security plan is based on the  
1160 Privacy Act, the Computer Security Act, and OMB Circular A-130.

### 1161 8.1. Gathering Data

- 1162 • Data should derive from source documents. Source documents are original  
1163 documents (the first place the information was recorded) that serve as the “raw data”  
1164 for a study. Source documents include (but are not limited to) research clinic records,  
1165 subject diaries, and recorded data from automated instruments.
- 1166 • Data on race/ethnicity can be collected by asking the subject directly for the  
1167 information. Write an anecdotal note to file of the conversation to use as a source  
1168 document, and file in the subject’s research file.
- 1169 • Keep in mind: “If it is not written down, it did not happen.”
- 1170 • If you have questions about the meaning of a question or data element, you should  
1171 contact the DCC monitors for the definition. The goal is to keep interpretation of data  
1172 elements consistent so that data collected can be properly analyzed and interpreted.
- 1173 • If you have questions about what a notation means on a chart, then you should  
1174 contact your site PI for a definition and interpretation.
- 1175 • All essential study documents must be retained by the investigator in a participant’s  
1176 binder and generally include the following:
  - 1177 ○ Source documents;
  - 1178 ○ Signed consent forms;
  - 1179 ○ Questionnaires completed by the participant;
  - 1180 ○ Data Correction Forms (if applicable).

### 1181 8.2. Data Timeliness

- 1182 • Screening logs will be submitted to the DCC weekly (every Friday).
- 1183 • The DCC will generate data for weekly enrollments reports, which will be made  
1184 available for discussion on weekly calls with study investigators and coordinators.
- 1185 • During the clinician interview, the interviewer will fill out the table of symptoms on  
1186 issues described by the clinician and the importance of each symptom to patients.
- 1187 • During the qualitative and cognitive interviews, audio-recorded interviews will be  
1188 conducted of patients with symptoms of LUTD seeking care at one of the clinical  
1189 centers and individuals with symptoms from communities near the clinical center.
- 1190 • Following each interview (clinical, qualitative, and cognitive), audio recordings, and  
1191 scanned copies of the interview form (with the interviewer notes) will be sent to the  
1192 DCC.
- 1193 • All audio-recordings will be transcribed at the DCC.
- 1194 • Should the DCC generate queries to the sites, a specific timeframe for resolution of  
1195 the queries will be identified in the email with the attachment of the query  
1196 spreadsheet.

### 1197 **8.3. General Instructions for Completing Paper Forms**

1198 Forms created as fillable PDFs should not be printed and written on; they should only be  
1199 completed and transmitted electronically.

1200 When completing paper study forms, PRINT IN CAPITAL LETTERS using black ink.  
1201 **NOTE:** participants must not be identified by name on any study document submitted  
1202 with the forms if applicable.

1203 **Header:** Complete the header information on every page, including pages for which no  
1204 study data are recorded.

1205 **Participant ID:** The participant ID must be recorded on EVERY page, including pages  
1206 on which no study data are recorded.

1207 **Time:** Use a 24-hour clock (e.g., 14:00 to indicate 2:00 PM) unless otherwise specified.

1208 **Dates:** All dates must be verifiable by source documents. Historical dates are sometime  
1209 not known (e.g., date of first symptom); therefore, conventions for missing days and/or  
1210 months should be described (e.g., UNK or 998).

1211 **Abbreviations:** Use of abbreviations not specifically noted in the instructions for  
1212 completing the forms can be problematic and should be held to a minimum.

1213 **Correcting errors:** If an error has been made on the study forms, place a single line  
1214 through the erroneous entry and record the date and your initials. Indicate the correct  
1215 response.

1216 **Skipping items:** Do not skip any items. Some items may carry “Unknown” or “Not  
1217 Applicable” response choices which should be selected when necessary.

1218 **Incomplete data:** Data may not be available to complete the form for various reasons.  
1219 Circle the item for which information is not available and indicate the reason near the  
1220 appropriate field.

1221 **Incomplete or illegible forms:** Incomplete forms that do not have adequate explanation  
1222 compromise the integrity of the entire study. Errors, such as incomplete or illegible forms  
1223 are problems that require time and energy to resolve.

1224 **Do not leave forms incomplete or unused without explanation.**

## 1225 **9. PROTOCOL COMPLIANCE**

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1226 Compliance in relation to studies is defined as adherence to all the study-related  
1227 requirements, GCP requirements, and the applicable regulatory requirements.

1228 Research studies are expensive endeavors and every effort should be made to  
1229 maximize adherence to the protocol and minimize noncompliance.

1230 Please refer to the most recent version of the protocol to review eligibility criteria for  
1231 each subject.

1232 **9.1. Protocol Deviations**

1233 A protocol deviation is defined as a variation from the protocol-directed conduct of a  
1234 clinical trial. Any noncompliance with the study protocol, GCP, or protocol-specific MOO  
1235 requirement is considered a protocol deviation. All protocol deviations should be  
1236 reported to the DCC at [LURN-Monitors@arborresearch.org](mailto:LURN-Monitors@arborresearch.org).

1237 Protocol deviations are submitted to the site’s IRB as per their IRB regulatory guidelines.

1238 **9.1.1. Major Protocol Deviations**

1239 A major protocol deviation includes a deviation which impacts one of the  
1240 following:

- 1241 • The inclusion and/or exclusion criteria;
- 1242 • The ability of the sponsor to evaluate the endpoints of the study;
- 1243 • Informed consent;
- 1244 • IRB status (e.g., failure to keep IRB approval up to date).

1245 **9.1.2. Minor Protocol Deviations**

1246 A non-major protocol deviation (minor deviation) includes a deviation which  
1247 includes noncompliance with the study protocol, GCP, or protocol-specific MOO  
1248 requirement that does not meet the definition for a major deviation.

1249 Below is a list of some of the Protocol Deviations (Major and Minor) the DCC will  
1250 be tracking:

- 1251 • Subject enrolled, but does not meet eligibility criteria;
- 1252 • Non-adherence to study design;
- 1253 • Failure to obtain informed consent prior to initiation of study-related  
1254 procedures;
- 1255 • Falsifying research or medical records;
- 1256 • Performing tests beyond professional scope;
- 1257 • Working under an expired professional license/certificate;
- 1258 • Breach of confidentiality;
- 1259 • Improper or inadequate informed consent procedure;
- 1260 • Other, specify.

1261 Further information on protocol deviations can be found in the principals of  
1262 International Conference on Harmonization Guidelines (ICH) 4.5, “Compliance  
1263 with Protocol.”  
1264

1265 Protocol deviation reports are to be submitted to your IRB per their reporting  
1266 procedures. The response to the deviation reports are to be filed in the site’s  
1267 regulatory binder under major correspondence.

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### 9.1.3. Data and Safety Monitoring Activities

The roles and responsibilities of the entities monitoring participant safety and study quality are described in this section. All research studies supported by NIDDK must have a data and safety monitoring plan. The type of safety monitoring is determined by the size and/or nature of the study and is specified in the Notice of Grant Award.

- As indicated in RFA-DK-11-026 (<http://grants.nih.gov/grants/guide/rfa-files/RFA-DK-11-026.html>), an independent EEP has been established by the NIDDK. The EEP will provide scientific oversight and advice for the duration of the Network. The Panel reports to the NIDDK. NIDDK may also seek advice about the design of studies proposed by LURN investigators and their conduct from other stakeholders if necessary.

The major responsibilities of the EEP are to:

- Review all study protocols prior to implementation for their likelihood to achieve the overall goals established by the NIDDK;
- Evaluate study progress;
- Review ancillary study proposals (if applicable) prior to implementation;
- Monitor the safety of study participants.

Additional information on committee meetings, expertise of members, and general operating procedures can be found in **Appendix B**.

### 9.1.4. Study Termination and Completion

Study closeout activities are performed to confirm that the site investigator's obligations have been met and post-study obligations are understood. Examples of closeout activities include, but are not limited to the following:

- Verification that study procedures have been completed, data have been collected;
- Comparison of the investigator's correspondence and study files against the DCC's records for completeness;
- Assurance that all data queries have been completed;
- Assurance that correspondence and study files are accessible for external audits;
- Reminder to investigators of their ongoing responsibility to maintain study records and to report any relevant study information to the NIDDK;
- Assurance that the investigator will notify the IRB of the study's completion and store a copy of the notification;
- Preparation of a report summarizing the study's conduct;
- Participant notification of the study completion.

Subjects may be prematurely terminated from the study because of withdrawal of consent, failure to return (lost to follow-up), etc. Every attempt will be made to follow subjects who prematurely terminate from the study. Remember to provide documentation of the withdrawal or missed event and file in the subject's research file/binder.

1310 **9.2. SAE Reporting**

1311 There will be no need for SAE reporting in this observational study.

1312 Participants in the study will be told as part of the informed consent process, they may  
1313 drop out of the study if they experience any discomfort.

1314 **9.3. Confidentiality Procedures**

1315 It is the responsibility of the study leadership to outline and enforce participant and study  
1316 data confidentiality policies. Study staff should be instructed in their responsibilities  
1317 regarding data safeguards and cautioned against the release of data to any  
1318 unauthorized individuals unless such as a release is approved by study leadership and  
1319 NIDDK and is not in violation of applicable Federal and state laws.

1320 The following is a list of study participant confidentiality safeguards:

- 1321 • **Data flow procedures:** Data identifying participants should not be transmitted  
1322 from study sites to the DCC. Identifiers include, but are not limited to: participant  
1323 name, name code, hospital chart, record number, Social Security Number,  
1324 address or other contact information.
- 1325 • **Electronic files:** Data identifying participants that are stored electronically  
1326 should be maintained in an encrypted form or in a separate file.
- 1327 • **Forms:** Forms or pages containing personal identifying information should be  
1328 separated from other pages of the data forms.
- 1329 • **Data listings:** Unique identifiers should not be included in any publishing data  
1330 listing.
- 1331 • **Data distribution:** Data Listings that contain participant name, name code or  
1332 other identifiers should be stored and disposed of in an appropriate manner.
- 1333 • **Data disposal:** Computer listings that contain participant-identifying information  
1334 should be disposed of in an appropriate manner.
- 1335 • **Access:** Participant records should not be accessible to persons outside of the  
1336 study without the express written consent of the participant.
- 1337 • **Storage:** Study forms and related documents retained both during and after the  
1338 study completion should be stored in a secure location. If computers are used to  
1339 store and/or analyze clinical data, the DCC or the investigator must address the  
1340 following elements of computer security so that the data remains confidential:
  - 1341 ○ Compliance with Standards Regarding Data Security (HIPAA and 21 CRF  
1342 Part 11).
  - 1343 ○ All servers, web servers, firewalls, etc. are configured and maintained  
1344 according to industry best practice guidelines for back-up security,  
1345 continuity of operations, and protection of Protected Health Information  
1346 (PHI).
  - 1347 ○ There is a comprehensive security plan (at the sites and the DCC) in  
1348 place for storage of electronic files, audiotapes, etc. containing all survey  
1349 responses from the sites to the DCC.
  - 1350 ○ **Box**, a file sharing system will be utilized as it adheres to the highest  
1351 industry standards for security of data at every level of the Box  
1352 experience.
  - 1353 ○ The file sharing system will manage users, content folder permission,  
1354 storage allocations and more in a centralized console at the DCC.

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- Access permissions will be identified per group users, files and folders will be password protected, and the file sharing system will generate reports on file and user activity to get a complete audit trail.
  - If study paper files are being stored, the minimal requirement is for investigator files are stored in lockable cabinets or in a lockable room. When not in use of when unattended, the cabinets or room in which the files are located should be locked to assure confidentiality and security of information contained therein.
  - Duplicate data types should be stored in a fire-proof safe or in an off-site storage facility.
  - Study related data should be stored in conditions that minimize the risk of damage or loss of information.

1367 **9.4. Retention and Study Documentation**

1368 The length of time all study files are to be maintained according to NIH policy requires  
1369 that studies conducted under a grant retain participant forms for 3 years, while studies  
1370 conducted under contract must retain participant forms for 7 years. Individual IRBs,  
1371 institutions, states, and countries may have different requirements for record retention.  
1372 Investigators should adhere to the most rigorous requirements and should retain forms  
1373 and other study documents for the longest applicable period.

1374 Following final analyses, the DCC will send study related data to the NIDDK Data  
1375 Repository, a research resource by the NIH. The Repository will store and distribute data  
1376 from people with LUTD. After the LURN study ends, the participants in the study will not  
1377 be able to withdraw their data because the Repository will not know which data is  
1378 participant specific. The participant data and all study related data will stay in the  
1379 Repository indefinitely.

1380 Researchers who plan to use data from the study will be required to request and receive  
1381 all of the necessary approvals or waivers from the NIDDK and study investigators before  
1382 gaining access to the data. Data will only be released to scientists who are qualified and  
1383 prepared to conduct a research study.

1384 **9.5. MOO Maintenance**

1385 The MOO is maintained and will be updated throughout the study by the Lead Clinical  
1386 Monitor at the DCC as major changes in procedure occur during the course of the study.  
1387 The updated version of the MOO will contain a new version number and change in date  
1388 visible in the footer of each page of the document to facilitate any changes and/or  
1389 additions. The MOO should be available in loose-leaf form to all site staff participating in  
1390 the conduct of the study. The MOO will serve as a history of the project documenting the  
1391 time and nature of any changes in procedures and policies. The updated MOO will be  
1392 distributed by the Lead Clinical Monitor at the DCC to the sites.