Appendix A

DNP Current RDM Practices Survey

Q1.1 **IRB Statement / Survey Introduction**

I am inviting you to participate in a survey on data management education within your DNP program curriculum and for DNP projects required for graduation. You are invited to complete this survey because you have been identified as the program coordinator for the DNP program at your institution.

Data management refers to the collection, analysis, storage, and sharing of data.  This survey is structured so that it follows the phases of the [UK Data Service Lifecycle.](https://www.ukdataservice.ac.uk/manage-data/lifecycle)

This survey is using the phrase, college or department of nursing, to refer to all nursing programs that offer doctoral degrees.

The survey is expected to take about 15 minutes to complete and has been approved by the University of Illinois at Chicago IRB Office (Protocol # 2019-0118). You will not directly benefit from participating in this web survey today however in the future it may improve data management education for nursing.

Participation in the study is voluntary. You may choose not to participate if you decide to participate in this research study, you may withdraw at any time. If you decide to withdraw and  not participate, you will not be penalized. Responses will have institutional identifiers removed prior to publication or presentation of the data.

Proceeding to the survey acknowledges that you have read and accepted the terms above.

Thank you for participating in this important research. If you have any concerns about the survey, please contact the PI below.

Rebecca Raszewski, MS, AHIP
raszewr1@uic.edu
312-996-2759
Associate Professor & Information Services & Liaison Librarian for Nursing University of Illinois at Chicago
1750 West Polk Street
Chicago, IL 60612

Q1.2 Do you agree to the above terms? By clicking Yes, you consent that you are willing to answer the questions in this survey.

* Yes (1)
* No (2)

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Q1.3 What is the full name of your institution?

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Q1.4 Are your DNP students required to complete a final project to graduate?

* Yes (1)
* No (2)

Q1.5 If your DNP students are not required to complete a final project, please answer the questions below as they apply to QI or other evaluation experiences in your DNP Program.

Q1.6 What kind of DNP Project is required for your students to graduate? (Please Check All that Apply)

* Literature Review (Scoping, Systematic, etc) (1)
* Project Split Between Multiple Students/Cohorts (2)
* Individual Evidence-Based Project (3)
* Individual Quality Assurance Program (4)
* Individual Quality Improvement Program (5)
* Clinical Practice Guideline (6)
* Program Implementation or Evaluation (7)
* Change Leadership (8)
* Other, please specify below (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.7 Are any of the following types of Data Management (DM) content being taught to students within your DNP program? (Please Check All that Apply)

* Planning for Research Data Management (e.g. requiring data management plan) (1)
* Collecting Data (e.g. gathering data for a project) (2)
* Processing and Analyzing Data (e.g. cleaning data ) (3)
* Publishing and Sharing Data (e.g. how data will be shared when project is finished) (4)
* Preserving Data (e.g. where and how data will be stored after project is completed) (5)
* Reusing Data (e.g. using/requesting/complying with permissions for security for secondary data sets) (6)
* None of these (7)
* Other, please specify below (8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.8 How is data management content being taught within your DNP program? (Please Check All that Apply)

* Discussed in lecture but not full lecture or course (1)
* Individual Lecture within a required course(s) (2)
* Individual Lecture within an elective course(s) (3)
* Full Course that is required (4)
* Full Course that is an elective (5)
* Individual Mentoring (6)
* Webinars or Online Tutorials (7)
* Workshops (8)
* Other (Please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.9 Who is teaching data management within your DNP program? (Please Check All that Apply)

* Nursing Faculty (1)
* Non-Nursing Faculty (please specify College or Department below) (2)
* Staff Member from Another Unit (please specify Unit below) (3)
* Librarian (4)
* Statistician (5)
* Other (please specify below) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.10
**Planning Research**

 A data management plan is a structured document now required by many federal granting agencies that may describe types of data, software and hardware used in a project; standards for data description and metadata to be followed; policies and procedures for data storage, access, and sharing; and plans for archiving data  or other research products.

Q1.11

Is a data management plan required within the DNP project proposal?

* Yes (1)
* No (2)

Q1.12 **Collecting Data**

 Collecting data refers to the students reusing data or gathering their own data for their project.

Q1.13 What kinds of data are the students using for their DNP projects? (Please Check All that Apply)

* Data captured by the student specifically for the DNP Project (e.g. Survey, Interviews) (1)
* Physician/clinic/hospital medical records (2)
* Hospital data containing no health information (e.g. employee data) (3)
* Data previously collected for research purposes (4)
* Publicly Available Data (Census, BRFSS, CMS, etc) (5)
* Other (please specify) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.14 Does an IRB need to review and/or approve student protocols to generate new data or procure data for reuse?  (Please Check All that Apply)

* No (1)
* Yes, a QI determination application/request is submitted for review (2)
* Yes, an expedited or full-review of human subjects application is submitted for review (3)
* Other, please specify (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.15 **Processing and Analyzing Data**

 The analysis of data for a scholarly project usually involves statistical analysis.  Processing data may involve cleaning or organizing data.

Q1.16 Which software is recommended for students to process or analyze data? (Please Check All that Apply)

* Microsoft Office Programs (e.g. Access, Excel) (1)
* Qualitative Data Analysis Software (Atlas.ti, Dedoose, NVivo) (2)
* Quantitative Data Analysis (R, SAS, SPSS) (3)
* Data Capture (Qualtrics, REDCap) (4)
* Data Standardization (OpenRefine) (5)
* Data Visualization (Tableau) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.17 **Publishing and Sharing Data**

 A college may have policies in place for students on how they should be handling their data such as sharing data and in certain cases, making it publicly available.

Q1.18 Is there a college or department specific data policy that applies to students?

* Yes (1)
* No (2)
* I don't know (3)

Q1.19
Is there an institution-level data policy that applies to students?

* Yes (1)
* No (2)
* I don't know (3)

Q1.20 Are there resources at your institution to assist with de-identification of data? (If Yes, please describe)

* Yes (1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* No (2)
* I don't know (3)

Q1.21 With whom do students share their data? (Please Check All that Apply)

* Faculty Mentor / Advisor (1)
* Nursing Research Dean (2)
* DNP Committee (3)
* Statistician (4)
* College or Department of Nursing (5)
* University (6)
* Agencies (e.g. hospital, school, health department) (7)
* General Access/Public (8)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.22
**Preserving Data**

 Data will need to be preserved in a format that can be accessible in the future.  Data will need to stored and backed up so that others may access the data.

Q1.23 Which tools are being used for storing data **while the student is working on the project?** (Please Check All that Apply)

* No institutional / college level data storage solution provided (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.24 Which tools are being used for preservation or archival storage of the data **after the project is completed?** (Please Check All that Apply)

* No institutional / college level data storage solution provided (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.25 Which supplemental files are recommended or required when preserving a student's project data after the project is completed? (Please Check All that Apply)

* ReadMe File or Guide to the Data (1)
* Data Dictionary (2)
* SPSS/SAS/R Code (3)
* Other Code (4)
* None required (6)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.26 Where are DNP project data  or any supplemental files from DNP projects being maintained after the completion of the project? (Please Check All that Apply)

* No institutional / college level data storage solution (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Institutional Repository (7)
* Discipline or General Repository (e.g. figshare, data dryad) (8)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.27 Who is responsible for the DNP project data after the student graduates? (Please Check All that Apply)

* Student (1)
* Faculty mentor (2)
* Research Dean (3)
* College or Department of Nursing (4)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.28 If a student or researcher **from your institution** wants to reuse or validate the data, who grants permission?

* Student (1)
* Faculty mentor / advisor (2)
* College or Department of Nursing Administration (e.g. Dean, Associate Dean of Research) (3)
* Campus Partner (Graduate College, Office of Research, etc) (4)
* Other, please specify (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.29 If a researcher **from another institution** wants to reuse or validate the data, who grants permission?

* Student (1)
* Faculty mentor/advisor (2)
* College or Department of Nursing Administration (e.g. Dean, Associate Dean of Research (3)
* Campus Partner (Graduate College, Office of Research, etc) (4)
* Other, please specify (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.30 **Reusing Data**

 The reuse of data involves conducting a secondary data analysis on existing data sets.

Q1.31 Do DNP student projects reuse data from any of the following sources?  (Please Check All that Apply)

* Student do not reuse data from other sources (1)
* Data sets from government or professional association level surveys (e.g. BRFSS, NDNQI) (2)
* Data sets from previously published papers (3)
* Data sets from other universities (4)
* Data sets from College or Department of Nursing faculty (5)
* Data sets from other departments at your institution (10)
* Institutionally affiliated health care sites (6)
* Regionally affiliated health care sites (7)
* Students' own place of employment (8)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.32 If data sets are purchased for secondary analysis, who purchases those data sets? (Please Check All that Apply)

* College or Department of Nursing (1)
* The student (2)
* A different unit on campus (e.g. Library) (3)
* Other (please specify) (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End of Block: Default Question Block

Start of Block: Block 1

Q2.1
**Campus Partners**

Nursing colleges or departments may be partnering with other units on campus in data management instruction and service.

Q2.2 Which partners on campus do you collaborate with for data instruction, storage, data set purchasing, etc.? (Please Check All that Apply)

* Campus IT (1)
* Library (2)
* Office of Research (3)
* Graduate School (4)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* None of these (6)

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Q2.3 **Program Demographic Data for 2018-2019**

Q2.4 How many DNP students are enrolled in all of the programs at your institution?

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End of Block: Block 1

Start of Block: Block 3

Q3.1 You specified that RDM is being taught in an **individual lecture in a** **required course**. Please copy the course title and description into the box below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3.2 You specified that DM is being taught as an **individual lecture in an elective course.** Please copy the course title and description into the box below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3.3 You specified that DM is being taught as a **full required course**. Please copy the course title and description into the box below.

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Q3.4 You specified that DM is being taught as a **full elective course**. Please copy the course title and description into the box below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q3.5  Thank you for participating in this survey about research data management education in Nursing DNP programs.  We anticipate presenting preliminary conclusions at the Medical Library Association annual meeting in Chicago in May 2019.

We will also be continuing this research project thru interviews.  If you are interested in participating in a structured 30 minute interview about data management education and practices for the DNP program at your institution, please click the link below which will route you to a separate form to capture your name and email address.

Link For Interview Information: https://uic.ca1.qualtrics.com/jfe/form/SV\_80Ms3Vfl3MP2zR3

End of Block: Block 3

PhD Current DM Practices Survey

Start of Block: Default Question Block

Q1.1
**IRB Statement / Survey Introduction**
I am inviting you to participate in a survey on data management education within your PhD program curriculum and for PhD research required for graduation. You are invited to complete this survey because you have been identified as the program coordinator for the PhD program at your institution.

Data management refers to the collection, analysis, storage, and sharing of data.  This survey is structured so that it follows the phases of the UK Data Service Lifecycle (https://www.ukdataservice.ac.uk/manage-data/lifecycle).

This survey is using the phrase, college or department of nursing, to refer to all nursing programs that offer doctoral degrees.

The survey is expected to take about 15 minutes to complete and has been approved by the University of Illinois at Chicago IRB Office (Protocol # 2019-0118).. You will not directly benefit from participating in this web survey today however in the future it may improve data management education for nursing.

Participation in the study is voluntary. You may choose not to participate if you decide to participate in this research study, you may withdraw at any time. If you decide to withdraw and not participate, you will not be penalized. Responses will have institutional identifiers removed prior to publication or presentation of the data.

Proceeding to the survey acknowledges that you have read and accepted the terms above.

Thank you for participating in this important research. If you have any concerns about the survey, please contact the PI below.

Rebecca Raszewski, MS, AHIP
raszewr1@uic.edu
312-996-2759
Associate Professor & Information Services & Liaison Librarian for Nursing University of Illinois at Chicago
1750 West Polk Street
Chicago, IL 60612

Q1.2 Do you agree to the above terms? By clicking Yes, you consent that you are willing to answer the questions in this survey.

* Yes (1)
* No (3)

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Q1.3 What is the full name of your institution?

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Q1.4 What kind of PhD research is required for your students to graduate? (Please Check All that Apply)

* Literature Review (Scoping, Systematic, etc) (1)
* Research Project Split Between Multiple Students/Cohorts (2)
* Original Qualitative Research (8)
* Original Quantitative Research (7)
* Secondary Data Analysis (6)
* Other, Please specify below (10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.5 Are any of the following types of Data Management (DM) content being taught to students within your PhD program? (Please Check All that Apply)

* Planning for Research Data Management (e.g. requiring data management plan) (1)
* Collecting Data (e.g. gathering data for the research project) (2)
* Processing and Analyzing Data (e.g. cleaning data ) (3)
* Publishing and Sharing Data (e.g. how data will be shared when research is finished) (4)
* Preserving Data (e.g. where and how data will be stored after research is completed) (5)
* Reusing Data (e.g. using/requesting/complying with permissions for security for secondary data sets) (6)
* None of these (7)
* Other, please specify below (8) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.6 How is data management content being taught within your PhD program? (Please Check All that Apply)

* Discussed in lecture but not full lecture or course (1)
* Individual Lecture within a required course(s) (2)
* Individual Lecture within an elective course(s) (3)
* Full Course that is required (4)
* Full Course that is an elective (5)
* Individual Mentoring (6)
* Webinars or Online Tutorials (7)
* Workshops (8)
* Other (Please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.7 Who is teaching data management within the PhD program? (Please Check All that Apply)

* Nursing Faculty (1)
* Non-Nursing Faculty (please specify College or Department below) (2)
* Staff Member from Another Unit (please specify Unit below) (3)
* Librarian (4)
* Statistician (5)
* Other (please specify below) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.8
**Planning Research**

 A data management plan is a structured document now required by many federal granting agencies that may describe types of data, software and hardware used in a project; standards for data description and metadata to be followed; policies and procedures for data storage, access, and sharing; and plans for archiving data  or other research products.

Q1.9

Is a data management plan required within the PhD research proposal?

* Yes (1)
* No (2)

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Q1.10 **Collecting Data**

 Collecting data refers to the students reusing data or gathering their own data for their project.

Q1.11 What kinds of data are the students using for their PhD research? (Please Check All that Apply)

* Data collected by the student specifically for the PhD research (e.g. Survey, Interviews) (1)
* Physician/clinic/hospital medical records (2)
* Hospital data containing no health information (e.g. employee data) (3)
* Data previously collected for research purposes (4)
* Publicly Available Data (Census, BRFSS, CMS, etc) (5)
* Other (please specify) (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.12 Does an IRB need to review and/or approve student protocols to generate new data or procured data for reuse?  (Please Check All That Apply)

* No (1)
* Yes, an exempt determination application/request is submitted for review (2)
* Yes, an expedited or full-review of human subjects application is submitted for review (3)
* Other, please specify (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.13 **Processing and Analyzing Data**

 The analysis of data for research usually involves statistical analysis.  Processing data may involve cleaning or organizing data.

Q1.14 Which software is recommended for students to process or analyze data? (Please Check All that Apply)

* Microsoft Office Programs (e.g. Access, Excel) (1)
* Qualitative Data Analysis Software (Atlas.ti, DeDoose, NVivo) (2)
* Quantitative Data Analysis (R, SAS, SPSS) (3)
* Data Collection (Qualtrics, REDCap) (4)
* Data Standardization (OpenRefine) (5)
* Data Visualization (Tableau) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.15 **Publishing and Sharing Data**

 A college may have policies in place for students on how they should be handling their data such as sharing data and in certain cases, making it publicly available.

Q1.16 Is there a college or department level data policy that applies to PhD student research?

* Yes (1)
* No (2)
* I don't know (3)

Q1.17
Is there an university or institution-level data policy that applies to students?

* Yes (1)
* No (2)
* I don't know (3)

Q1.18 Are there resources at your institution to assist students with de-identification of data? (If Yes, please describe)

* Yes (1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* No (2)
* I don't know (3)

Q1.19 With whom do students share their data? (Please Check All that Apply)

* Faculty Mentor / Advisor (1)
* Nursing Research Dean (2)
* PhD Committee (3)
* Statistician (4)
* College or Department of Nursing (5)
* University (6)
* Agencies (e.g. hospital, school, health department) (7)
* General Access/Public (8)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.20
**Preserving Data**

 Data will need to be preserved in a format that can be accessible in the future.  Data will need to stored and backed up so that others may access the data.

Q1.21 Which tools are being used for storing data **while the student is working on research?** (Please Check All that Apply)

* No institutional / college level data storage solution provided (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.22 Which tools are being used for preservation or archival storage of the data **after the student's research is completed?** (Please Check All that Apply)

* No institutional / college level data storage solution provided (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Other (please specify) (7) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.23 Which supplemental files are recommended or required when preserving a student's research data after the research is completed? (Please Check All that Apply)

* ReadMe File or Guide to the Data (1)
* Data Dictionary (2)
* SPSS/SAS/R Code (3)
* Other Code (4)
* None required (6)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.24 Where are data or any supplemental files from the student's research being maintained after the research is completed? (Please Check All that Apply)

* No institutional / college level data storage solution (1)
* Campus shared storage (e.g. Box, Google Apps for Universities, Microsoft OneDrive) (2)
* College shared drive/server (3)
* Dropbox (4)
* Github, Bitbucket (5)
* Google Drive or Microsoft OneDrive (not campus supported) (6)
* Institutional Repository (7)
* Discipline or General Repository (e.g. figshare, data dryad) (8)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.25 Who is responsible for the PhD research data after the student graduates? (Please Check All that Apply)

* Student (1)
* Faculty mentor (2)
* Research Dean (3)
* College or Department of Nursing (4)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.26 If a student or researcher **from your institution** wants to reuse or validate the data, who grants permission?

* Student (1)
* Faculty mentor / advisor (2)
* College or Department of Nursing Administration (e.g. Dean, Associate Dean of Research) (3)
* Campus Partner (Graduate College, Office of Research, etc) (4)
* Other, please specify (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.27 If a researcher **from another institution** wants to reuse or validate the data, who grants permission?

* Student (1)
* Faculty mentor/advisor (2)
* College or Department of Nursing Administration (e.g. Dean, Associate Dean of Research) (3)
* Campus Partner (Graduate College, Office of Research, etc) (4)
* Other, please specify (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q1.28 **Reusing Data**

 The reuse of data involves conducting a secondary data analysis on existing data sets.

Q1.29 Do PhD research reuse data from any of the following sources?  (Please Check All that Apply)

* Student do not reuse data from other sources (1)
* Data sets from government or professional association level surveys (e.g. BRFSS, NDNQI) (2)
* Data sets from previously published papers (3)
* Data sets from other universities (4)
* Data sets from College or Department of Nursing faculty (5)
* Data sets from other departments at your institution (8)
* Institutionally affiliated health care sites (6)
* Regionally affiliated health care sites (7)
* Other (please specify) (9) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q1.30 If data sets are purchased for secondary analysis, who purchases those data sets? (Please Check All that Apply)

* College or Department of Nursing program (1)
* The student (2)
* A different unit on campus (e.g. Library) (3)
* Other (please specify) (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End of Block: Default Question Block

Start of Block: Block 1

Q2.1
**Campus Partners**

Nursing colleges or departments may be partnering with other units on campus in data management instruction and service.

Q2.2 Which partners on campus do you collaborate with for data instruction, storage, data set purchasing, etc.? (Please Check All that Apply)

* Campus IT (1)
* Library (2)
* Office of Research (3)
* Graduate School (4)
* None of these (6)
* Other (please specify) (5) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q2.3 **Program Demographic Data for 2018-2019**

Q2.4 How many nursing PhD students are enrolled in all of the programs at your institution?

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End of Block: Block 1

Start of Block: Block 3

Q3.1 You specified that DM is being taught as an **individual lecture in an elective course.**Please copy the course title and description into the box below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3.2 You specified that RDM is being taught in an **individual lecture in a** **required course**. Please copy the course title and description into the box below.

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Q3.3 You specified that DM is being taught as **a required course**. Please copy the course title and description into the box below.

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Q3.4 You specified that DM is being taught as a **full elective course**. Please copy the course title and description into the box below.

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Q3.5  Thank you for participating in this survey about research data management education in Nursing PhD programs.  We anticipate presenting preliminary conclusions at the Medical Library Association annual meeting in Chicago in May 2019.

We will also be continuing this research project thru interviews.  If you are interested in participating in a structured 30 minute interview about data management education and practices for the PhD program at your institution, please go to the URL below which will route you to a separate form to capture your name and email address.

URL For Survey follow up information: https://go.uic.edu/DNPPHDInterview

End of Block: Block 3