

NDSU Libraries Undergraduate Research Award 2022

This is the submission form for the Libraries Undergraduate Research Award. For full information regarding requirements for this award see <https://library.ndsu.edu/about/undergraduate-research-award>.

~~Applications are due April 3, 2022 at 11:59 pm CDT.~~
Deadline extended to April 17 at 11:59 pm CDT.

If you have any questions, please contact nicole.km.juve@ndsu.edu.

The reflection prompts require a minimum of 100 words per response. We recommend that you type your response in a separate document before beginning your submission, then copy and paste them into the appropriate boxes in the submission form.

Committee members will be looking for responses that clearly describe how you planned and pursued your research, including how you located and chose the library resource you used and how those resources contributed to the development of your project. In the project itself, the committee will be evaluating how you used the resources you discovered to enhance the quality of your research and to learn more about your subject. Please respond to the reflection prompts as thoroughly as possible.

1. Name

2. Email address

3. Academic Major

4. Level

- Freshman
- Sophomore
- Junior

5. How did you hear about the Libraries Undergraduate Research Award?

- Email
- Posters
- Social Media
- From the library website
- From another student
- From an instructor or faculty member
- Other

6. Project Abstract or Description (100 words or less)

Home health patients are at risk of medication safety issues due to lack of pharmacy follow up. A Home Health Screening Program was created by NDSU's ONE Program to expand medication safety and opioid risk screenings to these patients. Given the screening results, patients receive a combination of individualized interventions such as medication education, Detera drug disposal bags, a pill organizer, a medication lock box, or Narcan. To date, more than 1,400 screenings have been completed. This program has helped address gaps in medication safety research and has provided critical safety information to a vulnerable population in North Dakota.

7. Please upload your project file here.

If your project is a website, please provide the URL in a document (.doc, .docx, .pdf, .txt) and then upload that file here.
If you have any trouble loading your file, contact nicole.km.juve@ndsu.edu

[Medication Safety and Opioid Risk Screenings for Home Health- With Citations.docx](#)

269.5KB

application/vnd.openxmlformats-officedocument.wordprocessingml.document

8. Please upload your bibliography file here.

If you have any trouble loading your file, contact nicole.km.juve@ndsu.edu

[Home Health Bibliography.docx](#)

15KB

application/vnd.openxmlformats-officedocument.wordprocessingml.document

9. Reflection Prompt 1

How did you select your research topic or question? Did your topic or question change in any way during the research process?

(100 words minimum)

I have been a research assistant with the ONE Program at NDSU for 2 years. As a pharmacy intern, who works in the community pharmacy setting, I am extremely passionate about educating patients on proper medication storage and opioid safety. I assisted with initiating the Home Health Screening Program with Pharmacy faculty, Dr. Heidi Eukel. A year after the Home Health Program was initiated, I was presented with the opportunity to complete a literature search and to write the introduction for the manuscript based on the initial data. I had originally completed my research and introduction on opioid safety in the home health population. However, after meeting with the research team, we realized there were very few of these patients who were receiving opioids. Therefore, the research should be more focused on general medication safety. Since I had already written the introduction, Dr. Eukel suggested I change it into an article for the North Dakota Nurse Publication to expand interprofessional knowledge of the ONE Program. I edited the document, submitted it to the North Dakota Nurse, and it was published in the April edition of the journal.

10. Reflection Prompt 2

Did interactions with librarians, your professor(s), peers, and/or others influence the direction of your research?
(100 words minimum)

At the start of my research, I was connected with Merete Christianson who provided me with critical information on how to complete a literature review and help start my research process. This allowed me to focus my topic to specifically home health and nursing initiatives since that is the focus of our research. Merete provided me with resources such as specific journals and MeSH terms to direct me to nursing research. As a pharmacy student, I have not had experience looking for nursing publications. Her guidance was extremely beneficial. As I previously mentioned, after looking at the data collected, Dr. Heidi Eukel, Dr. Jayme Steig, and Dr. Mark Strand shifted our research from opioid safety in the home health setting to a generalized medication safety topic. Moving forward with this project, I will be changing the direction of my research to this new focus.

11. Reflection Prompt 3

How did you find the sources you used in your research? Which specific search tools or databases - library or otherwise - did you use? If you encountered any challenges while searching for sources, how did you overcome them?
(100 words minimum)

My baseline knowledge on how to find the sources came from working with Merete. I mainly utilized PubMed to search for topics with the terms "medication safety AND nursing" or "opioid safety AND nursing". Additionally in PubMed, I utilized the MeSH terms to look at opioids with the subheadings: administration and dosage, adverse effects, organization and administration, toxicity, and supply and distribution. To find specific statistics related to my topic, one helpful tip I utilized was looking at images and then tracing back to the original source. The other tool I previously unaware of was Zotero. This allowed me to organize my resources and easily cite them. One of my main challenges with researching this topic is the limited number of studies done with this population. To help overcome this, once I had found a quality source, I looked at their references and articles that have cited them to find additional relevant research.

12. Reflection Prompt 4

Reflecting back on your research experience, is there anything you would do differently? Are there any resources or services the library could offer to better support student research?
(100 words minimum)

Looking back, I wish I would have received some general preliminary data before completing the literature review and introduction. Although, I was able to utilize my work to be published in a non-peer reviewed journal! In addition, I was very intimidated by this process so I put off starting the research. However, after meeting with Merete and learning about all the tools available to us students at NDSU, I discovered it was a manageable process. I think your research assistance page is very helpful for students first starting a research project. After having the experience of talking to a librarian, I think it would be helpful to include videos such as the basics of research and how to utilize Zotero on this page.