McGoogan Library Services for the Researcher

University of Nebraska Medical Center

Agenda

1. Scholarly output services and resources (Heather Brown)
2. Systematic review service (Danielle Westmark and Cindy Schmidt)
3. Research data services (Brian Maass)

Scholarly Output Services and Resources

Heather L. Brown, MA
Associate Professor
Scholarly Communications Librarian

University of Nebraska Medical Center

Research Process: The Literature

- Literature search service
  - Supply topic and parameters
  - Receive citations and abstracts, with links to library collection
  - Receive citation manager output files
- Interlibrary loan
  - Free service
  - 1 – 2 days turnaround (average)

Research Process: Writing

- Writing Center @ UNMC
  - https://www.unmc.edu/library/services/writing.html
- Citation manager assistance
  - EndNote
  - Zotero

Article Publishing: Submissions

- Journal Selection
    - Search service
        - Email askus@unmc.edu
        - Topic, abstract (if available), article type, OA preference, targeted audience
- Journal Citation Reports (Impact factors)
    - Library website > Resources > Tools and News
    - On campus only

Article Publishing: Submissions

- Copyright guidance
- Navigating the updated NIH Public Access policy
- Open access publishing discounts
  - https://go.unmc.edu/oa-discounts

Open Access APC Discounts

- American Chemical Society (through 2027)
  - ADC – 100%
  - APC
    - CC-BY NC ND - $1500
    - CC-BY - $2000

Open Access APC Discounts (cont.)

- American Society for Microbiology (through 2025) - 100%
- Biochemical Society (through 2026) - 100%
- Cambridge University Press (through 2026) - 100%
- Elsevier (through 2027) - 10%
- Royal Society of Chemistry – 100%
- Wiley (through 2025) – 100%

DigitalCommons@UNMC

https://digitalcommons.unmc.edu/

What is it?

- An online repository of the research, scholarly communications, and educational output produced or owned by the UNMC community.

Examples of content

- Published articles when copyright and/or license allow
- Books and book chapters when copyright and/or license allow
- Supplemental materials to published articles
- Conference materials: posters and slide decks
- Student works (e.g. theses and dissertations)
- Research instruments
- Instructional manuals
- Scholarly based reports
- White papers
- Images
- Streaming audio and video
- UNMC produced journals
- UNMC produced conferences, symposiums, or other scholarly events

< Previous Next >

Home > College of Allied Health Professions > Physical Therapy > Posters and Presentations: Physical Therapy > 30

POSTERS AND PRESENTATIONS: PHYSICAL THERAPY

Effects of Virtual Reality Intervention on Neural Plasticity in Stroke Rehabilitation: A Systematic Review

Jie Hao, *University of Nebraska Medical Center* Follow
Haoyu Xie, *University of Nebraska Medical Center*
Kimberly Harp, *University of Nebraska Medical Center* Follow
Zhen Chen, *First Rehabilitation Hospital of Shanghai, China*
Ka-Chun Siu, *University of Nebraska Medical Center* Follow

Conference
World Physiotherapy Congress

Document Type
Poster

Date
4-2021

Abstract
Effects of virtual reality intervention on neural plasticity in stroke rehabilitation: a systematic review Background: Virtual reality (VR) has been increasingly adopted in

Links
Physical Therapy Website
McGoogan Library

Search
Enter search terms:
Search
Select context to search:
in this series
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Notify me via email or RSS

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CANADA
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ICELAND
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KAZAKHSTAN
MONGOLIA
Sea of Okhotsk
ROMANIA
ITALY
SPAIN
PORTUGAL
GREECE
UZBEKISTAN
TURKMENISTAN
SYRIA
MOROCCO
IRAN
AFGHANISTAN
Atlantic Ocean
Sargasso Sea
ALGERIA
LIBYA
EGYPT
SAUDI ARABIA
OMAN
INDIA
MYANMAR
MEXICO
CUBA
HAITI
PR (U.S.)
MAURITANIA
MALI
NIGER
CHAD
SUDAN
YEMEN
Arabian Sea
Bay of Bengal
THAILAND
VIETNAM
PHILIPPINES
Philippine Sea
GUATEMALA
NICARAGUA
GUINEA
NIGERIA
SOUTH SUDAN
SOMALIA
MALAYSIA
Sulawesi Sea
COLOMBIA
GUYANA
SURINAME
CAMEROON
GABON
KENYA
DEMOCRATIC REPUBLIC OF THE CONGO
TANZANIA
Banda Sea
PAPUA NEW GUINEA
BRAZIL
PERU
ANGOLA
ZAMBIA
BOLIVIA
ZIMBABWE
NAMIBIA
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PARAGUAY
CHILE
AUSTRALIA
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Systematic Review Process

How can your librarian help?

Cindy Schmidt, M.D., M.L.S.
Danielle Westmark, MLIS, AHIP

Education & Research Services
McGoogan Health Sciences Library

University of Nebraska Medical Center

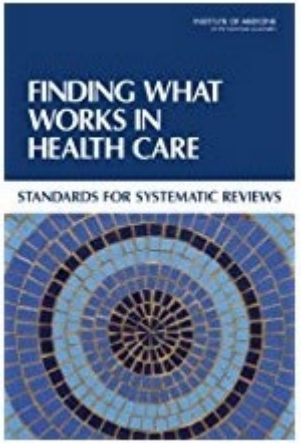
What is a systematic review?

- a clearly stated set of objectives
- pre-defined eligibility criteria for studies that will be reviewed
- an explicit, reproducible literature search methodology
- a search that attempts to identify all studies that would meet the eligibility criteria
- an assessment of the validity of the findings of the included studies
- a systematic presentation, and synthesis, of the characteristics and findings of the included studies.

Why write a systematic review?

- A form of research that can be undertaken as time permits
- The author of an exemplary systematic review becomes, and is considered, an expert on the topic of the review.

- *Finding What Works in Health Care: Standards for Systematic Reviews*. Washington, DC: The National Academies Press; 2011. https://www.nap.edu/read/13059/chapter/5. Accessed August 26, 2017.
- Print – Reference W 84.3 I59 2011



- Page M J, McKenzie J E, Bossuyt P M, Boutron I, Hoffmann T C, Mulrow C D et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews *BMJ*
- 2021; 372 :n71 doi:10.1136/bmj.n71


RESEARCH METHODS AND REPORTING

OPEN ACCESS

The PRISMA 2020 statement: an updated guideline for reporting systematic reviews

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University of Nebraska Medical Center

42nd and Emile
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Faculty and Staff Students Patients and Families

Leon S. McGoogan Health Sciences Library

UNMC

Resources Services How Do I? Special Collections & Archives Spaces Contact

How Do I? Overview

Library FAQ

Find answers to your questions about library policies and services, RefWorks troubleshooting, and other how-to's.

Research Guides

College, course, and subject-specific guides that provide the information you need.

Tutorials

Video and guide-based tutorials about searching library resources.

Anatomical Model Booking

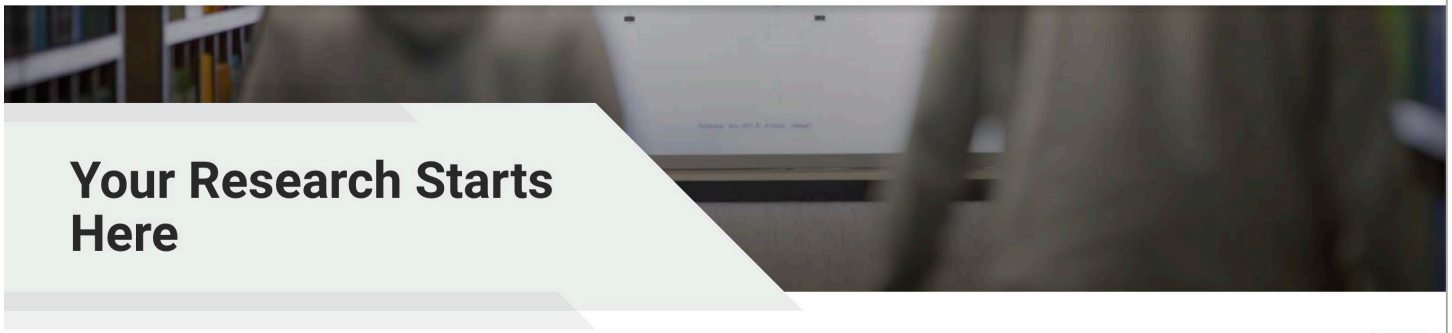
Request an anatomical model and schedule a pick-up time.

Theses and Dissertations

Learn how to deposit your manuscript into DigitalCommons and purchase bound copies.

AskUs

Not finding what you need? Contact us through AskUs.



Pharmacy 3

Public Health 4

RefWorks, EndNote, & Zotero 3

Research Support & Tools 13

Technology and 3D Printing 2

Writing, Citing, and Publishing 11

- APA Citation Format Styles
- Author Toolkit
- Copyright & Plagiarism
- EndNote
- Google Scholar Settings for UNMC & Children's Hospital
- Images, Medical
- NIH Biosketch
- RefWorks Tips, Tricks, and Guides
- Scholarly Metrics
- Systematic Reviews
- Zotero Tips and Training

Subject Homepage: https://unmc.libguides.com/sb.php?subject_id=87860

Systematic Reviews

What is a Systematic Review?

A **systematic review** attempts to collate all empirical evidence that fits pre-specified eligibility criteria in order to answer a specific research question. It uses explicit, systematic methods that are selected with a view to minimizing bias, thus providing more reliable findings from which conclusions can be drawn and decisions made. The key characteristics of a systematic review are:

- a clearly stated set of objectives with pre-defined eligibility criteria for studies;
- an explicit, reproducible methodology;
- a systematic search that attempts to identify all studies that would meet the eligibility criteria;
- an assessment of the validity of the findings of the included studies, for example through the assessment of risk of bias; and
- a systematic presentation, and synthesis, of the characteristics and findings of the included studies.

Reference

Higgins JPT, Green S (editors). *Cochrane Handbook for Systematic Reviews of Interventions* Version 5.1.0 [updated March 2011]. The Cochrane Collaboration, 2011. Available from handbook.cochrane.org

How Can a Librarian Help?

Research librarians can partner with you on systematic reviews. Add us to your author team and we will design and manage complex, thorough searches in multiple databases. We will also provide you with:

- Files of de-duplicated results,
- Tables with detailed search strategies,
- A narrative of the search methodology, and
- Identify potential journals for publication.

The Institute of Medicine has published 21 standards for the publication of high-quality systematic reviews. Two of these standards are:

- Standard 3.1.1 Work with a librarian or other information specialist trained in performing systematic reviews (SRs) to plan the search strategy
- Standard 3.1.3 Use an independent librarian or other information specialist to peer review the search strategy.

Types of Literature Reviews

Literature reviews provide an overview of the literature about a specific topic. There are many types and they vary in terms of comprehensiveness, types of study included, and purpose.

Integrative Reviews

Integrative reviews summarize past empirical or theoretical literature to provide

Getting Started

From: https://pixabay.com/en/idea-response-enlightenment-wisdom-1019753/

Meeting request form

University of Nebraska Medical Center

Leon S. McGoogan Health Sciences Library

UNMC

Services Overv

Search Request

Librarians search the literature for you and help guide you to better results.

Interlibrary Loan

A service that provides articles and books from a network of libraries.

Writing Assistance

The Writing Center @ UNMC offers free one-on-one consultations with trained advisors.

3D Printing

Request a 3D print for your educational and research needs or learn how to use 3D printers.

UNMC Health Information Service

Assists Nebraska residents or patients receiving health care in Nebraska, and their families, with finding information on health and wellness topics.

Instruction

Librarians offer instruction within the curriculum and in other learning settings.

Your Research Starts Here

Search Request

Literature Search

Literature search services are available at no charge to:

- UNMC, Nebraska Medicine, and Children's Hospital & Medical Center faculty and staff
- UNMC students
  - **For student class assignments or projects**: Make an appointment to work with a librarian or e-mail AskUs with a description of your search efforts so far (please include exact search terms and databases used) and search topic. A librarian will be in contact with advice.
  - **For student research endeavors**: A librarian can conduct a literature search for the following uses which include, but are not limited to capstone, thesis, dissertation, or grant-supported work.
- Search Request Form

The average turnaround time for literature requests is within two weekdays (Monday-Friday) of receipt. If you do not receive search results within the two-day timeframe or have other questions, please contact us at askus@unmc.edu.

Systematic Review Search

If you are considering a systematic review literature search, please review our Systematic Reviews guide and Description of Services. Systematic review searching is only available to UNMC and affiliated partners.

- Systematic Review Search Form

UNMC Health Information Service

IN THIS SECTION

Search Request
Interlibrary Loan
Writing Assistance
3D Printing
Instruction
UNMC Health Information Service

Systematic Review & Scoping Review Meeting Request

Systematic Review & Scoping Review searching is available to UNMC and affiliated partners. If you have questions, please contact us at askus@unmc.edu or 402-559-6221

This is for a: (required)

Make a selection

Name (required)

Status (required)

Make a selection

If you are a student working with a faculty member, please include their name and email address below. We do ask that faculty member(s) attend the meeting and will be included in the response email

Department (required)

Primary campus location (required)

Make a selection

Email (must use an affiliated email address) (required)

Phone (required)

(999)999-9999

SR team librarian sends you a meeting scheduling invitation

- Results of a quick search for previously published and Prospero-registered systematic reviews on your topic
- Invitation to schedule a Zoom meeting with the sending librarian (with link to online scheduling tool).
- Information about help we can provide on systematic review projects with vs. without co-authorship
- A list of questions that will be addressed during the meeting.

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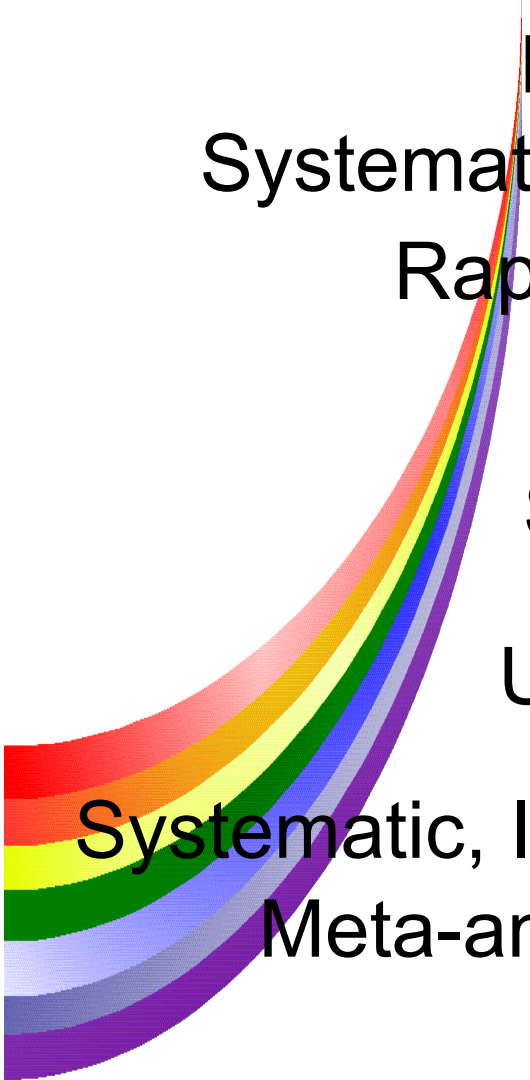
Meeting

University of Nebraska Medical Center



Narrative

Systematized Reviews

Rapid Reviews

Mapping

Scoping

Umbrella

Systematic, Integrative

Meta-analysis

Topic breadth:

- Broad

Search:

- Comprehensive, not always exhaustive

Topic breadth:

- Narrow

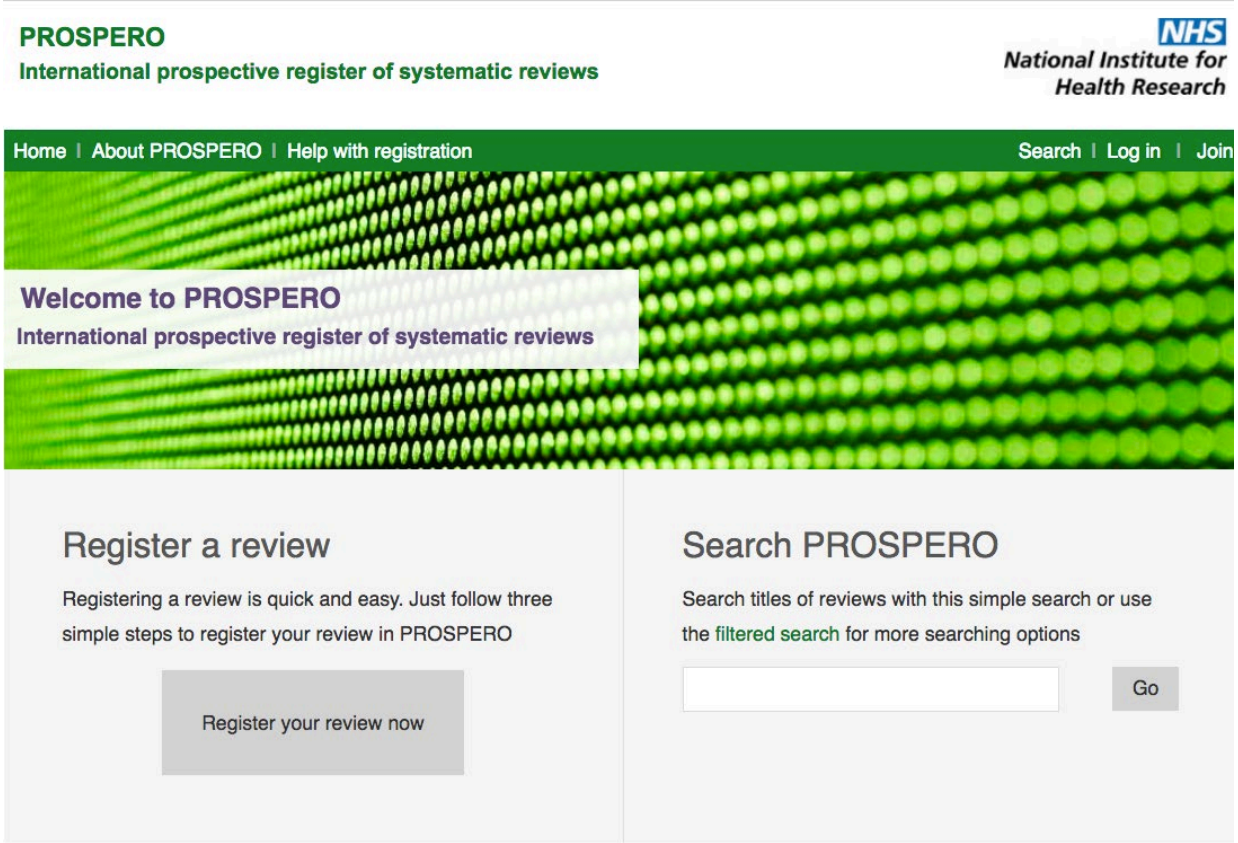
Search:

- Exhaustive

While you wait for search results

University of Nebraska Medical Center

From: https://www.pexels.com/search/fist%20bump/


PROSPERO
International prospective register of systematic reviews
NHS
National Institute for Health Research
Home | About PROSPERO | Help with registration
Search | Log in | Join
Welcome to PROSPERO
International prospective register of systematic reviews
Register a review
Registering a review is quick and easy. Just follow three simple steps to register your review in PROSPERO
Register your review now
Search PROSPERO
Search titles of reviews with this simple search or use the filtered search for more searching options
Go

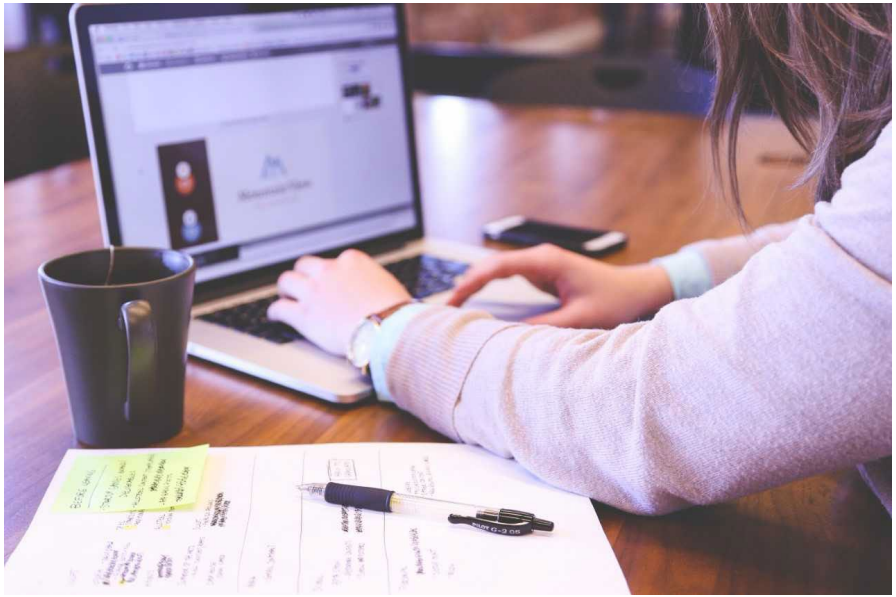
Rough Draft Search Phase

Concepts → headings, keywords, synonyms, related terms

Grouping, joining terms

Filtering search

Translating for additional databases.



PubMed, EMBASE, Cochrane Library

Scopus?

Google Scholar?

CINAHL (nursing allied health)?
PsycINFO(psychology/psychiatry)?
ERIC (education)?
CAS (chemistry)?

Clinical Trial Registries?

Meeting Abstracts?

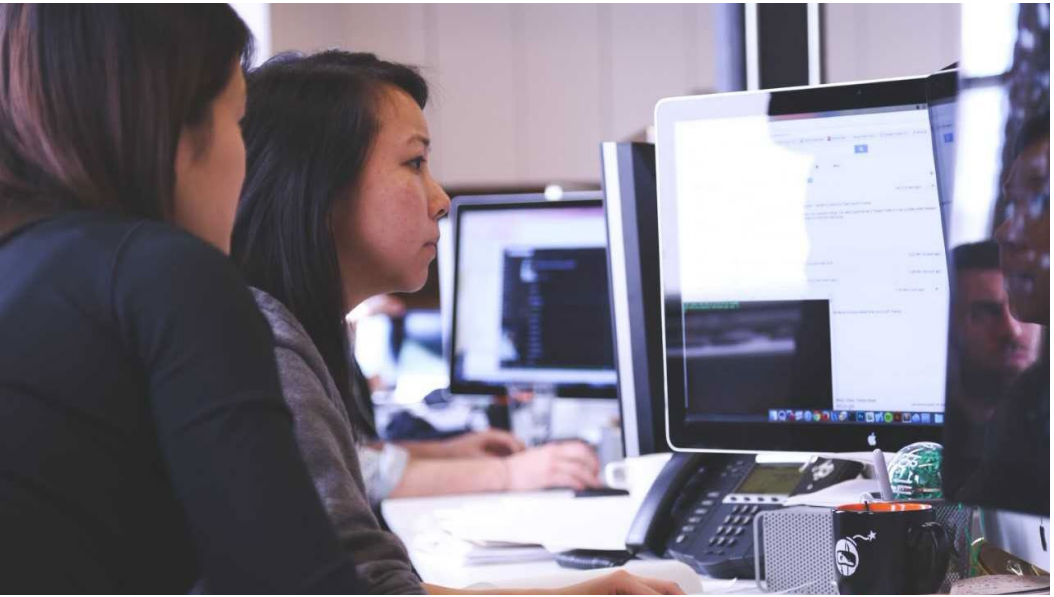
Search Refinement Phase

Compare results of searches to find missing search terms.
Harvest new search terms from search results.
Re-search
Repeat.

Identify some highly relevant articles

Use citation indexes/Google Scholar to search for articles citing previously identified highly relevant articles?

Request peer review of search strategies

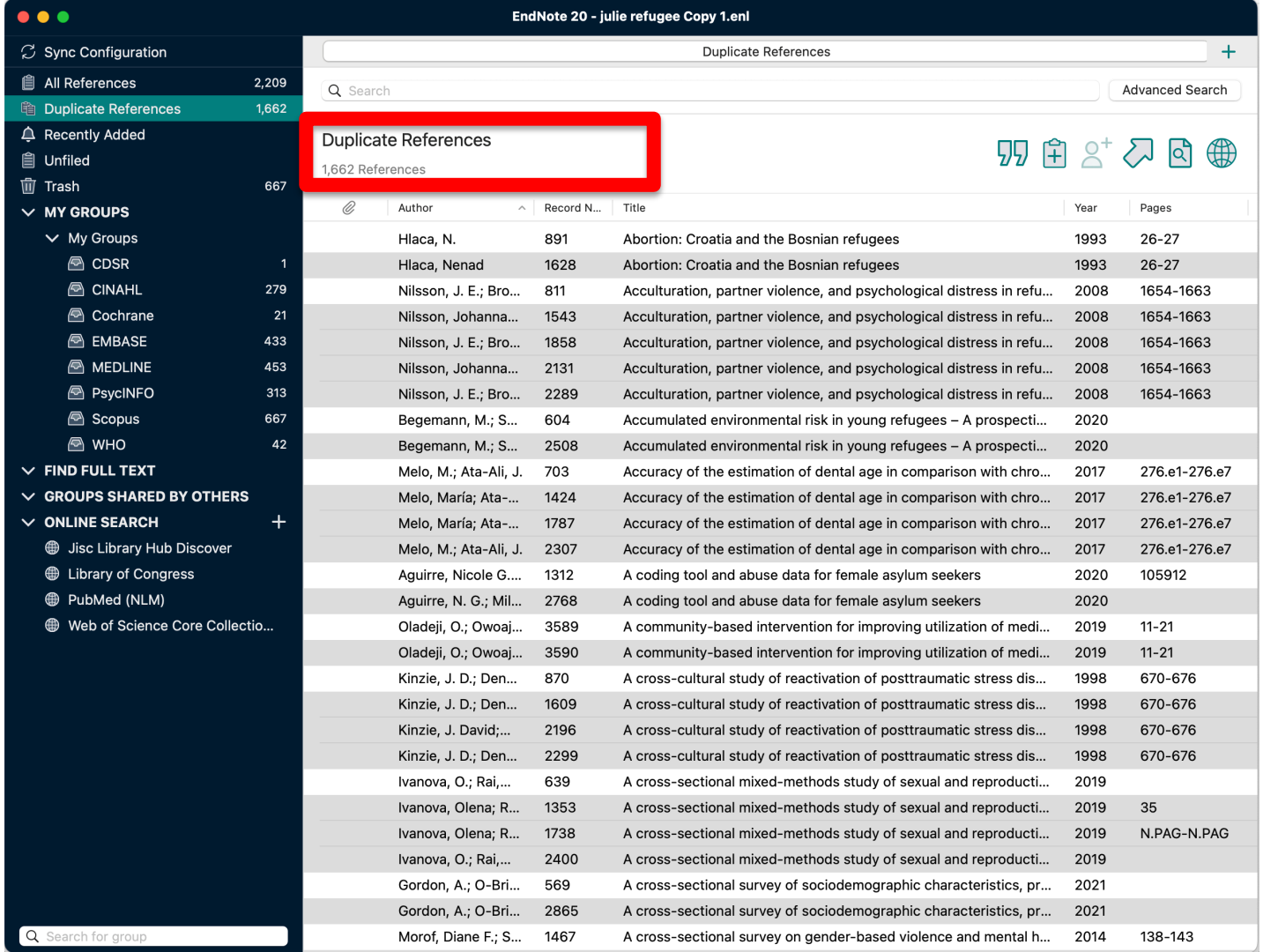


We want to produce a search that will avoid or stand up to criticism.

Search Result Processing

Search date: 11/02/2022

Database	Result #
Cochrane Library	22
CINAHL	279
EMBASE	433
MEDLINE	453
PsycINFO	313
Scopus	667
WHO	42
Total	2209


EndNote 20 - julie refugee Copy 1.enl
Sync Configuration
All References 2,209
Duplicate References 1,662
Recently Added
Unfiled
Trash 667
MY GROUPS
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CDSR 1
CINAHL 279
Cochrane 21
EMBASE 433
MEDLINE 453
PsycINFO 313
Scopus 667
WHO 42
FIND FULL TEXT
GROUPS SHARED BY OTHERS
ONLINE SEARCH
Jisc Library Hub Discover
Library of Congress
PubMed (NLM)
Web of Science Core Collectio...
Search for group
Duplicate References
Search
Advanced Search
Duplicate References
1,662 References
Author
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Title
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Pages
Hlaca, N. 891 Abortion: Croatia and the Bosnian refugees 1993 26-27
Hlaca, Nenad 1628 Abortion: Croatia and the Bosnian refugees 1993 26-27
Nilsson, J. E.; Bro... 811 Acculturation, partner violence, and psychological distress in refu... 2008 1654-1663
Nilsson, Johanna... 1543 Acculturation, partner violence, and psychological distress in refu... 2008 1654-1663
Nilsson, J. E.; Bro... 1858 Acculturation, partner violence, and psychological distress in refu... 2008 1654-1663
Nilsson, Johanna... 2131 Acculturation, partner violence, and psychological distress in refu... 2008 1654-1663
Nilsson, J. E.; Bro... 2289 Acculturation, partner violence, and psychological distress in refu... 2008 1654-1663
Begemann, M.; S... 604 Accumulated environmental risk in young refugees – A prospecti... 2020
Begemann, M.; S... 2508 Accumulated environmental risk in young refugees – A prospecti... 2020
Melo, M.; Ata-Ali, J. 703 Accuracy of the estimation of dental age in comparison with chro... 2017 276.e1-276.e7
Melo, María; Ata-... 1424 Accuracy of the estimation of dental age in comparison with chro... 2017 276.e1-276.e7
Melo, María; Ata-... 1787 Accuracy of the estimation of dental age in comparison with chro... 2017 276.e1-276.e7
Melo, M.; Ata-Ali, J. 2307 Accuracy of the estimation of dental age in comparison with chro... 2017 276.e1-276.e7
Aguirre, Nicole G.... 1312 A coding tool and abuse data for female asylum seekers 2020 105912
Aguirre, N. G.; Mil... 2768 A coding tool and abuse data for female asylum seekers 2020
Oladeji, O.; Owoaj... 3589 A community-based intervention for improving utilization of medi... 2019 11-21
Oladeji, O.; Owoaj... 3590 A community-based intervention for improving utilization of medi... 2019 11-21
Kinzie, J. D.; Den... 870 A cross-cultural study of reactivation of posttraumatic stress dis... 1998 670-676
Kinzie, J. D.; Den... 1609 A cross-cultural study of reactivation of posttraumatic stress dis... 1998 670-676
Kinzie, J. David;... 2196 A cross-cultural study of reactivation of posttraumatic stress dis... 1998 670-676
Kinzie, J. D.; Den... 2299 A cross-cultural study of reactivation of posttraumatic stress dis... 1998 670-676
Ivanova, O.; Rai,... 639 A cross-sectional mixed-methods study of sexual and reproducti... 2019
Ivanova, Olena; R... 1353 A cross-sectional mixed-methods study of sexual and reproducti... 2019 35
Ivanova, Olena; R... 1738 A cross-sectional mixed-methods study of sexual and reproducti... 2019 N.PAG-N.PAG
Ivanova, O.; Rai,... 2400 A cross-sectional mixed-methods study of sexual and reproducti... 2019
Gordon, A.; O-Bri... 569 A cross-sectional survey of sociodemographic characteristics, pr... 2021
Gordon, A.; O-Bri... 2865 A cross-sectional survey of sociodemographic characteristics, pr... 2021
Morof, Diane F.; S... 1467 A cross-sectional survey on gender-based violence and mental h... 2014 138-143

Search date: 11/02/2022

Database	Result #
Cochrane Library	22
CINAHL	279
EMBASE	433
MEDLINE	453
PsycINFO	313
Scopus	667
WHO	42
Total	2209
Duplicates removed	1172
Total After De-duplication	1037

Duplicate detection tools used: EndNote and Zotero
Search results attached in the following formats: 1) compressed EndNote library, 2) RIS format files ready for import into a citation manager or systematic review programs.
3) Excel format workbook, and 4) Word documents with links facilitating full-text access. 5) We Can help you import results into a systematic review program
Search strategies:

- Several pages of search strategies

- (Avoid copying and pasting into an autocorrected document.)

Systematic Reviews

Tools to Manage a Systematic Review

- Abstrackr
  This is free software for semi-automated abstract screening for systematic reviews.
- Colandr
  This is a free machine-learning assisted tool for conducting evidence synthesis during a systematic review. It supports automated search, study selection, and data extraction.
- Covidence
  A web platform that streamlines the production of systematic reviews, including Cochrane Reviews. Citation screening, Full text review, Risk of Bias assessment, Extraction of study characteristics and other study data. Payment required. A free trial is available via the Covidence site.
- DistillerSR
  A web based reference screening, data extraction and reporting solution for systematic reviews. Upload references from any reference management software, create screening and data extraction forms, layout workflow and assign reviewers, monitor study progress and review process, and export results. Payment required.
- EPPI-Reviewer
  EPPI-Reviewer 4 can help manage a systematic review through all stages of the process from bibliographic management, screening, coding and right through to synthesis. Payment required.
- JBI SUMARI
  This tool can facilitate the entire review process, from protocol development, team management, study selection, critical appraisal, data extraction, data synthesis and writing your systematic review report. Essentially, it is a word processor, reference management program, statistical and qualitative data analysis program all in one easy to use web application. Payment required.
- Online tools supporting the conduct and reporting of systematic reviews and systematic maps: a case study on CADIMA and review of existing tools
  This paper published in 2018 introduces the online tool CADIMA and compares it to over twenty other available tools for systematic review management.
- Rayyan
  A free web application and mobile app that can used to screen and code studies in a systematic review.
- Systematic Review Toolbox
  A free resource to identify software tools for various steps in the systematic review process. It is a community-driven, searchable

Citation Management Tools

A citation management tool is needed to organize the results of searches and to remove and store duplicates. UNMC faculty, staff, and students have access **Zotero** and **EndNote**

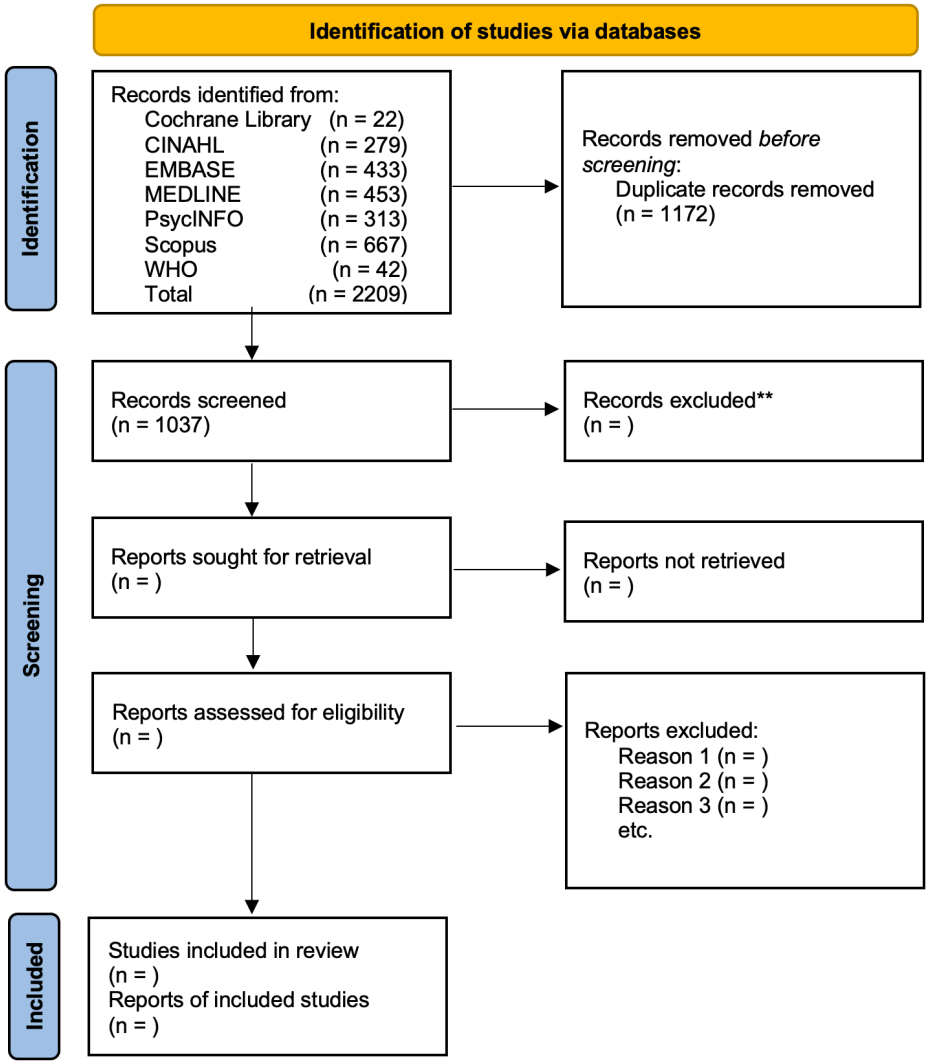
Final or Rough Search Results to the Team

Talbot B. If you're not confused. https://www.flickr.com/photos/b-tal/163450213

Exhaustive searches are high sensitivity/low specificity searches. 1.5-10% of search results are usually worthy of full critique.

Image from: Cerino V. UNMC enrollment continues to climb. UNMC Today. https://www.unmc.edu/news.cfm?match=11575. Published Septemeber 11, 2013. Accessed October 1, 2017.

Review results


Identification of studies via databases
Identification
Records identified from:
Cochrane Library (n = 22)
CINAHL (n = 279)
EMBASE (n = 433)
MEDLINE (n = 453)
PsycINFO (n = 313)
Scopus (n = 667)
WHO (n = 42)
Total (n = 2209)
Records removed *before screening*:
Duplicate records removed (n = 1172)
Screening
Records screened (n = 1037)
Records excluded** (n =)
Reports sought for retrieval (n =)
Reports not retrieved (n =)
Reports assessed for eligibility (n =)
Reports excluded:
Reason 1 (n =)
Reason 2 (n =)
Reason 3 (n =)
etc.
Included
Studies included in review (n =)
Reports of included studies (n =)

Review of results by Team: One more search step

(only 6 participants). It is expected that as robotic surgical experience advances, larger number of expert participants with larger robotic case logs would be included in future studies. Furthermore, the future generation of robotic simulators needs to incorporate more complex robotic tasks, such as robotic surgeries, with anatomical variations to better distinguish experts from intermediates.

Conclusion

Notwithstanding the limitations of our present pilot study, it confirms the face, content and construct validities of the dVSSS across the 3 surgical disciplines of urology, gynecology and general surgery. Larger sample size and more complex tasks are needed to further differentiate intermediates from experts.

Competing interests: This study was supported by an unrestricted educational grant from Abbott Pharmaceuticals and Paladin Labs Inc., Canada. Dr. Xianming Tan of the Biostatistics Core Facility, McGill University Health Centre Research Institute was commissioned to perform the statistical analysis.

This paper has been peer-reviewed.

References

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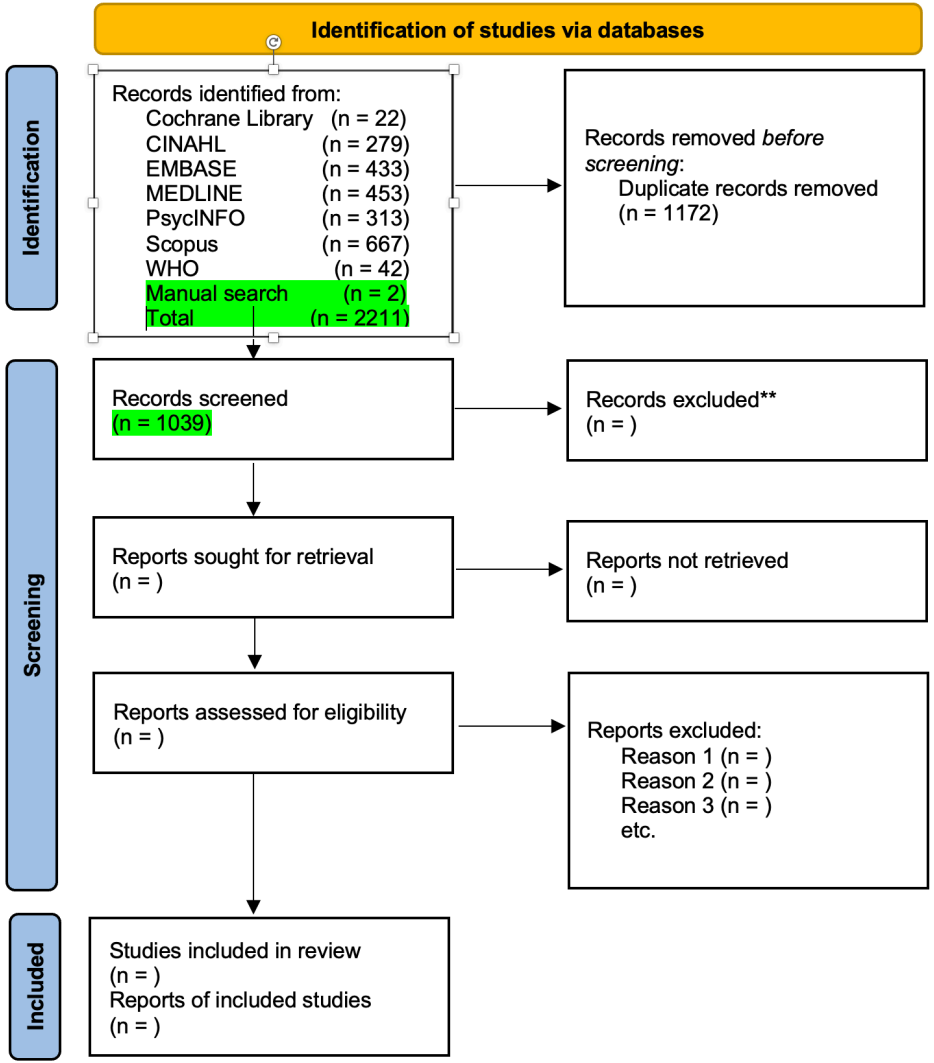
Identification of studies via databases
Identification
Records identified from:
Cochrane Library (n = 22)
CINAHL (n = 279)
EMBASE (n = 433)
MEDLINE (n = 453)
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Scopus (n = 667)
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Manual search (n = 2)
Total (n = 2211)
Records removed *before screening*:
Duplicate records removed
(n = 1172)
Screening
Records screened
(n = 1039)
Records excluded**
(n =)
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Reports not retrieved
(n =)
Reports assessed for eligibility
(n =)
Reports excluded:
Reason 1 (n =)
Reason 2 (n =)
Reason 3 (n =)
etc.
Included
Studies included in review
(n =)
Reports of included studies
(n =)

Writing

Write the search portion of the methods.

Read and make suggested revisions in the completed manuscript.

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Research Data Services

Brian Maass, MLIS
Assistant Professor
Data Services Librarian

University of Nebraska Medical Center

Anything related to:

- **Data management plans**
- **Finding existing datasets**
- **Sharing and Publishing datasets**
- **Preserving research data**

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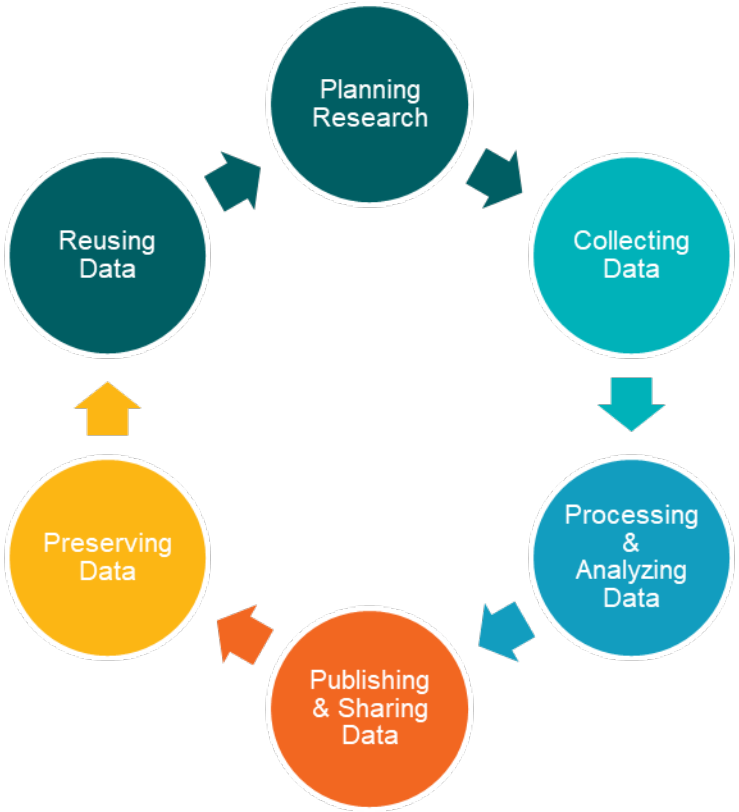
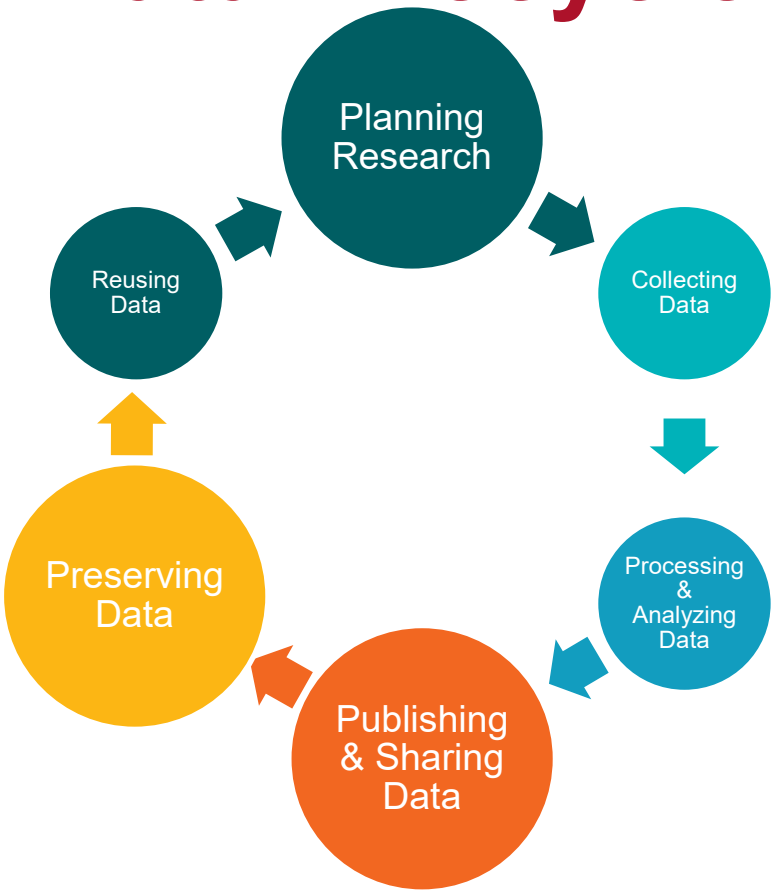
for the data generated by your research

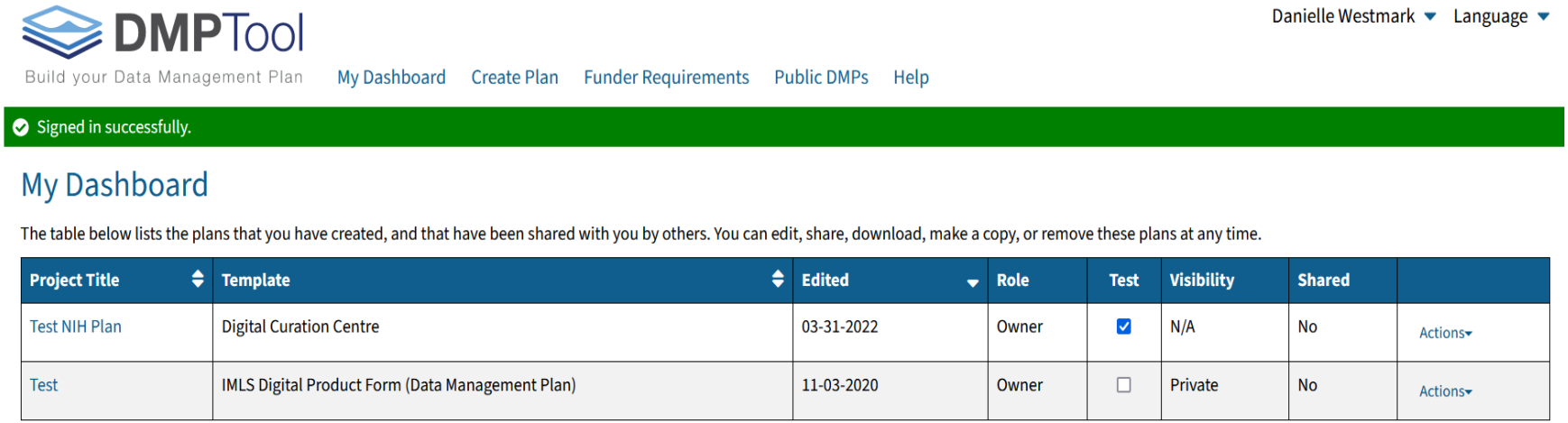
Research Data Lifecycle



Research Data Lifecycle



Create Data Management Plans



DMP Tool: https://dmptool.org/

Other Best Practices

- Organizing data
  - File structure & naming conventions
- Create unique persistent identifiers
  - ORCIDs, DOIs, etc.
- Cleaning and documenting data

https://go.unmc.edu/rdm

Questions

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