

Double Edge Sword: Systematic Review Services

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uOttawa



Stanford
MEDICINE

| Lane Medical Library

Conflicts of Interest

Lindsey Sikora has no conflicts of interest.

Michelle B. Bass has no conflicts of interest.

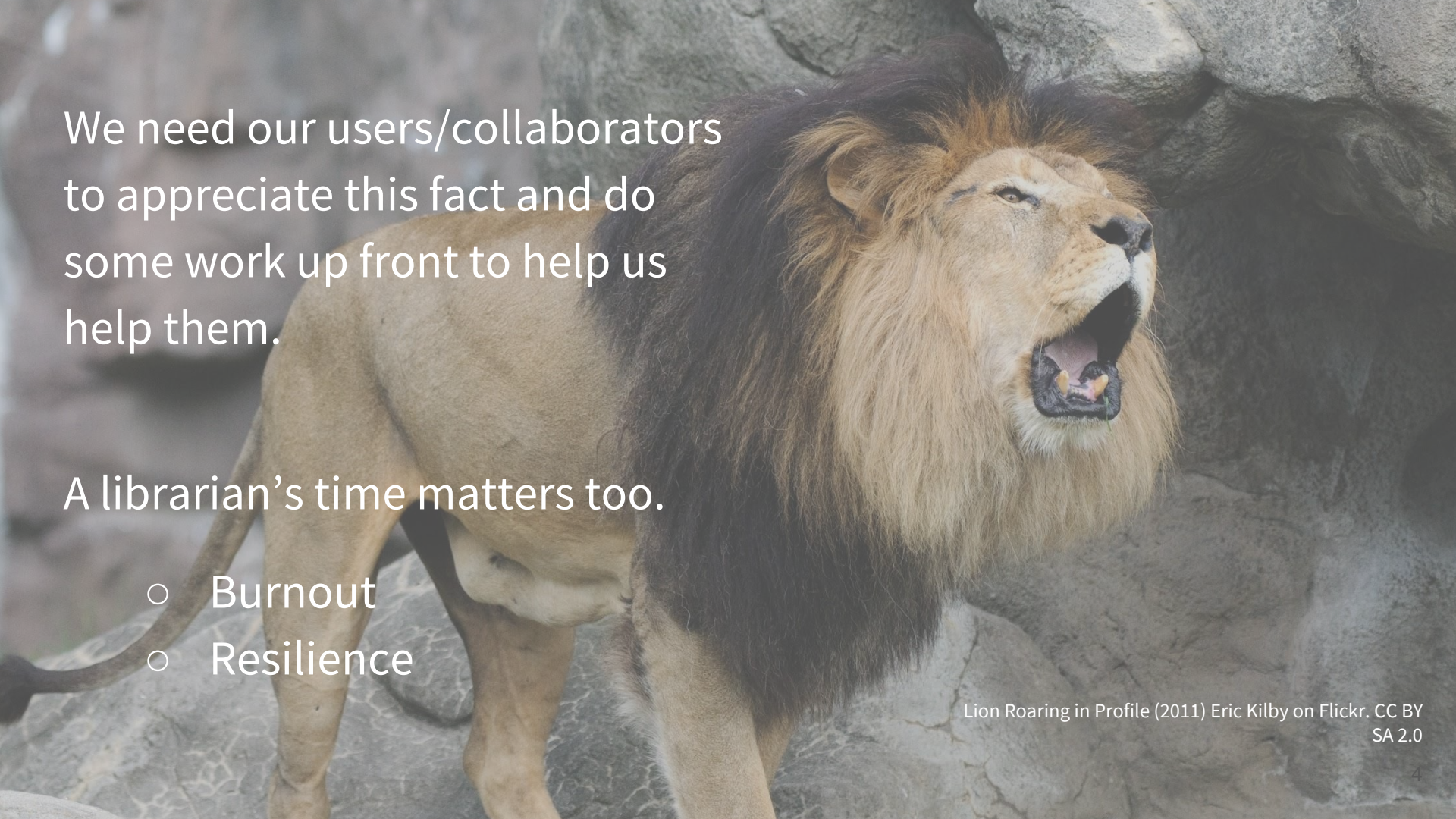


**Here's the thing:
Librarians know how to collaborate on a
systematic reviews. We are well prepared.**

The question is:

**Why don't we have the same
expectations of our users?**

Rant, this way. (2008). Nesster
on Flickr. CC BY SA 2.0

A male lion with a thick, dark brown mane is shown in profile, roaring with its mouth wide open. The lion is standing on a rocky surface, and the background consists of large, grey, textured rocks. The lighting is natural, highlighting the texture of the lion's fur and the surrounding environment.

We need our users/collaborators
to appreciate this fact and do
some work up front to help us
help them.

A librarian's time matters too.

- Burnout
- Resilience

Lion Roaring in Profile (2011) Eric Kilby on Flickr. CC BY
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Everybody's
time matters.



So, what did we do?

- Examined medical schools in Canada, US, Australia and New Zealand.
- Examined handpicked government and hospital libraries in these countries.
- Searched through library or faculty websites for SR services offered.
- **Thematic analysis - Combined similar elements of services, if found on websites.**

Libraries Cohort Inclusion Criteria

Australia & New Zealand: [Australian Medical Council Accredited Schools](#) libraries (n = 22)

UK: [Medical Schools Council](#) libraries (n = 11)

Canada: [Canadian Medical Association](#) School libraries (n = 17)

US: [Ivies Plus consortium](#) medical school libraries (n = 11)

Hospital Libraries & Government Libraries: Hand searching and knowledge of librarians working at these organizations (n = 15)

Academic Medical Libraries Systematic Review Services

	USA (n=11)	Canada (n=17)	UK (n=11)	Australia & New Zealand (n=22)
Systematic Review Service	6	9	2	1
Consultation Form	3	10	2	1
Critical Appraisal Tools List	7	2	3	10
Bibliographic Management Software Mention	6	7	6	10
Systematic Review Project Management Software Mention	1	2	0	6

Hospital & Government Medical Library Systematic Review Services

	Hospital (n=10)	Government (n=5)
Systematic Review Service	4	2
Consultation Form	3	2
Critical Appraisal Tools List	1	0
Bibliographic Management Software	1	1
Systematic Review Project Management Software	1	0

So, what did we do with all of this information?

1. Two case studies examining the before/after of SR services scan:
Stanford University
University of Ottawa
2. Issues and suggestions to consider going forward for all institutions.

Case Study: Lane Medical Library, Stanford University

Systematic Review Service

- Audience - Stanford University affiliates
 - User has to have a Stanford University or Stanford Health Care or Stanford Children's Health sponsored email
- Consultation Form - required (either completed by user or completed by liaison on behalf of user) * in use
 - Distribution to liaisons via Customer Relations Manager
- Curriculum
 - Cochrane Interactive Learning Modules (Trial)
 - Introduction to Systematic Review - OpenEdX platform online course * in process
 - On-Demand In-person instruction Search Strategies *in process
 - Building a website presence

Systematic Review Service

New Literature Service Form



The Lane Medical Library is rolling out a new systematic and literature review service. You will notice an updated intake form with new questions asking for additional information about your project. We are also trying to streamline response times to set up initial consultations to reply back to new requests within two business days. There will also be a new set of Lane Medical Library courses focused specifically on systematic reviews (SR). The first course will be an in-person 30 minute overview of defining what a systematic review is, and is not, guidelines for writing and publishing a SR, and a broad overview of tools to support the analysis process. The second course will be offered in-person over 45-60 minutes and will provide a deep dive into search strategies for systematic reviews in some of the most widely used databases: PubMed, Embase, and Scopus. The final course in this sequence will be focused on best practices and tools for inclusion and exclusion reviewing, data extraction, and quality assessment; this course is the most in-process as we are looking for partners from the School of Medicine community to assist with content creation and instruction.

The library is crafting these sessions in the School of Medicine's recently acquired Nearpod instruction platform to create a more interactive learning experience.

We appreciate your collaborations with the Lane Medical Library research and instruction librarians and appreciate your patience as we work to implement this new service model.

Tiered Service

Literature or reviews of a systematic nature is a value-added service available for current members of the Stanford medical community. The project lead and point-of-contact to Lane must be a Stanford affiliate. In an effort to provide the highest levels of service and quality to the entire community, we have broken our participation and services into 3 user options.

SERVICE LEVEL	LIBRARIAN AUTHORSHIP	DELIVERABLES	WORK (average)
Tier One	Acknowledgement	<ol style="list-style-type: none"> 1. Initial meeting 2. Review intake form determining if the project is systematic review vs. other type of review (e.g., protocol review, narrative review, literature review for grant application, etc.) 3. Develop a PubMed search strategy 4. Identification and suggestion of other databases to user for extending search 5. Advise on citation management and article appraisal tools 	3 hours
Tier Two	Co-authorship	<p>Tier One plus:</p> <ol style="list-style-type: none"> 1. Identification of other appropriate databases for extending search 2. Translations of searches into other databases 3. Setting up automated database search alerts 4. Provide guidance on searching the grey literature and/or hand searching 5. Development of PRISMA flowchart (upon request) 6. Writing of the methods section + search strategy 	3-10 hours
Tier Three	Co-authorship	<p>Tier One & Two plus one or more of:</p> <ol style="list-style-type: none"> 1. Collaboration at a national/international level conference or on a national-level guideline 2. More in-depth collaboration on additional parts of the project (e.g., writing other parts of the manuscript, providing additional input/support with the systematic review process, etc.) 3. Recommend tools for journal submission selection 4. Advise on compliance with NIH Public Access Policy 	10 hours+



Due to the nuanced nature of the work, as projects evolve individual librarians retain the right to change tiers to accurately reflect the nature of the work being conducted, as well as refuse co-authorship. On publication of the article you will provide acknowledged or co-author librarian a copy of the published manuscript for his/her portfolio.

NOTE: Due to the in-depth and time-intensive nature of this work, each librarian can work on a limited number of in-depth reviews at a time so the service may not be immediately available if we have already reached our maximum capacity. In such cases, your request will be queued and we will communicate with you about estimated start date.

Updates to the Intake Form

Previous Form

1. # of Questions: 14
 - Stanford affiliation questions - 4
2. No survey flow, prompted to answer all the questions regardless of type of review

Current Form

1. # of Questions: 16 (for Systematic Review)
 - Stanford Affiliation Questions: 1 (Affiliation is now checked in the Customer Relations Management system)
2. Survey Flow: Systematic Review or Other Type of Review

Question Depth and Built in Teaching Moments

Librarians at Lane Medical Library are available to assist you with your literature search strategy construction on any research question, large or small. There are many types of reviews ([A typology of reviews: an analysis of 14 review types and associated methodologies, Grant & Booth, 2009](#)).

If you are interested in having a librarian collaborate with your research team on a systematic review, please be prepared to answer the following questions:

- Have you searched the literature for previous systematic reviews on the topic?
- What is your [PICO](#) question?
- Why is this topic important and why is this systematic review needed?
- What is your protocol?
- Do you have at least 2 team members who can dedicate the time needed to complete the search and extraction process?

What is the aim of your project?

Systematic Review

Other type of Review or Project

Please formulate your question into a PICO(T) formula. Provide synonyms and key concepts.

Population

Intervention

Comparison

Outcome

Time frame

If your question does not fit PICO(T) formula, please state it here.

Why is this topic important? Why is this systematic review needed?

Question Depth and Built in Teaching Moments

Please list full citations of at least 2 relevant references to represent the articles expected in the results

(Be sure to include First Author Name, Article Title, Journal Title, Year and if possible article's DOI, PMID, ScopusID, etc.)

Citation 1	<input type="text"/>
Citation 2	<input type="text"/>
Citation 3	<input type="text"/>
Citation 4	<input type="text"/>
Citation 5	<input type="text"/>

Are there any related systematic reviews on this topic? Be sure to check the [Cochrane Database of Systematic Reviews](#). If so, please list the citations below. Be sure to include First Author Name, Article Title, Journal Title, Year and if possible article's DOI, PMID, ScopusID, etc.

Yes

No

Please list at least one additional systematic review team member (besides yourself).

Team member 1	<input type="text"/>
Team member 2	<input type="text"/>
Team member 3	<input type="text"/>
Team member 4	<input type="text"/>

Customer Relations Management System

EXPORT: CSV | Excel | PDF

Case IDs	Status	Arrival Date	Last Update	Assigned To	Customer	Summary	Type
5532	In process	04/12/18	04/12/18 02:16 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5520	In process	04/10/18	04/10/18 03:50 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5517	In process	04/09/18				COMPLETED FORM: Lane Medical Library Lit...	Form
5489	In process	04/02/18	04/02/18 11:07 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5488	Close	03/31/18	04/02/18 12:28 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5479	In process	03/28/18				COMPLETED FORM: Lane Medical Library Lit...	Form
5477	In process	03/27/18	03/27/18 01:30 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5476	In process	03/27/18	03/27/18 01:30 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5475	In process	03/26/18	03/27/18 10:09 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5467	Close	03/23/18	04/12/18 11:01 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5464	Close	03/23/18	04/12/18 11:01 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5458	In process	03/21/18	03/22/18 02:46 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5442	In process	03/18/18	03/19/18 02:54 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5431	In process	03/16/18	03/16/18 04:03 PM			COMPLETED FORM: Lane Medical Library Lit...	Form
5427	In process	03/16/18	03/16/18 11:29 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5425	In process	03/16/18	03/16/18 11:19 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5419	In process	03/15/18	03/15/18 11:40 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5414	In process	03/15/18				COMPLETED FORM: Lane Medical Library Lit...	Form
5413	In process	03/15/18	03/15/18 10:35 AM			COMPLETED FORM: Lane Medical Library Lit...	Form
5402	In process	03/13/18	03/13/18 11:08 AM			COMPLETED FORM: Lane Medical Library Lit...	Form

Customer Relations Manager

Liaison Interaction

ID: 5532

Interaction Type:

Current Status: **In process**

Created Date: 2018-04-11



Case Type:

Assigned To:

Summary

COMPLETED FORM: Lane Medical Library Literature Review Service

Details

Please formulate your question into a PICO(T) formula. Provide synonyms and key concepts.

Population Patient's with mallot finger injuries
Intervention who wear volar based splints
Comparison compared to dorsal based splints
Outcome have decreased extension lags
Time frame in a 6-8 week time period

Why is this topic important? Why is this systematic review needed?
I am performing a RTC. Plan to do a poster presentation at conference

Internal Note

Edit requestor

Requested By:

Email:

Phone:

Title: Occupational Therapist I

Department:

Affiliation:

Case Study: Health Sciences Library, University of Ottawa

Changes made to our services:

- Created a systematic review [LibGuide](#)
- Intake form created
- Updated literature review policy
- **Updated work plan to MOU**
- Internal triage process created

First applied in the HSL, but can be adapted and adopted for other departments in the Library

Ethics and Transparency

- We were not able to search some library websites due to blocked permissions
- Searched for “systematic review”
 - Guides
 - Library Website
- For US cohort, all are private institutions

Expansion of Service: Beyond the Systematic Review

- Administration of libraries need to appreciate the fact that SRs take time and effort that can sometimes be hard to track.
- ROI is hard to measure: How can we measure it?
 - Tracking: time (hours), number completed, number published
 - Authorship, returning users and further collaborations

What we can hope to see...

- Forms being completed
- Suggested readings being reviewed before meeting with the librarian
- Authorship agreements followed
- Having defined outcomes/products of a systematic review service:
 - EndNote library
 - Document with search strategies by database
 - Methods section write-up

What we'd love to see...

- Reading requirements before meeting with a librarian

Example:

A typology of reviews: An analysis of 14 review types and associated methodologies
Maria J. Grant & Andrew Booth

- Common understanding of a systematic review between librarians and users:
 - Timeline
 - Team members
 - Collaboration roles
 - Authorship expectations
- Fill out all of the questions on an intake form

Let's be proactive...

- Build step-by-step instructions into library guides
- MOU and/or consultation form required before initial meeting
 - Required training review before consultation, such as a video tutorial
- Include information on library website such as:
 - Definitions of systematic and other types of reviews
 - Critical appraisal tools
 - Software
 - Citation management tools
 - Project management tools

Website

- Definition of systematic review
- Role of the librarian
- Timeline
- Critical appraisal tools
- Software
 - Project management
 - DistillerSR
 - Covidence
 - Rayaan
 - EPPI Reviewer 4
 - Bibliographic Management
 - EndNote
 - Zotero
 - Mendeley

Forms

- Timeline review
- Question breakdown by concept
- Database options
- Memorandum of understanding

Questions? Comments?

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