



# **Consulting & Collaborating on Supporting Systematic Reviews over a Decade: A Librarian's Practical Insights**

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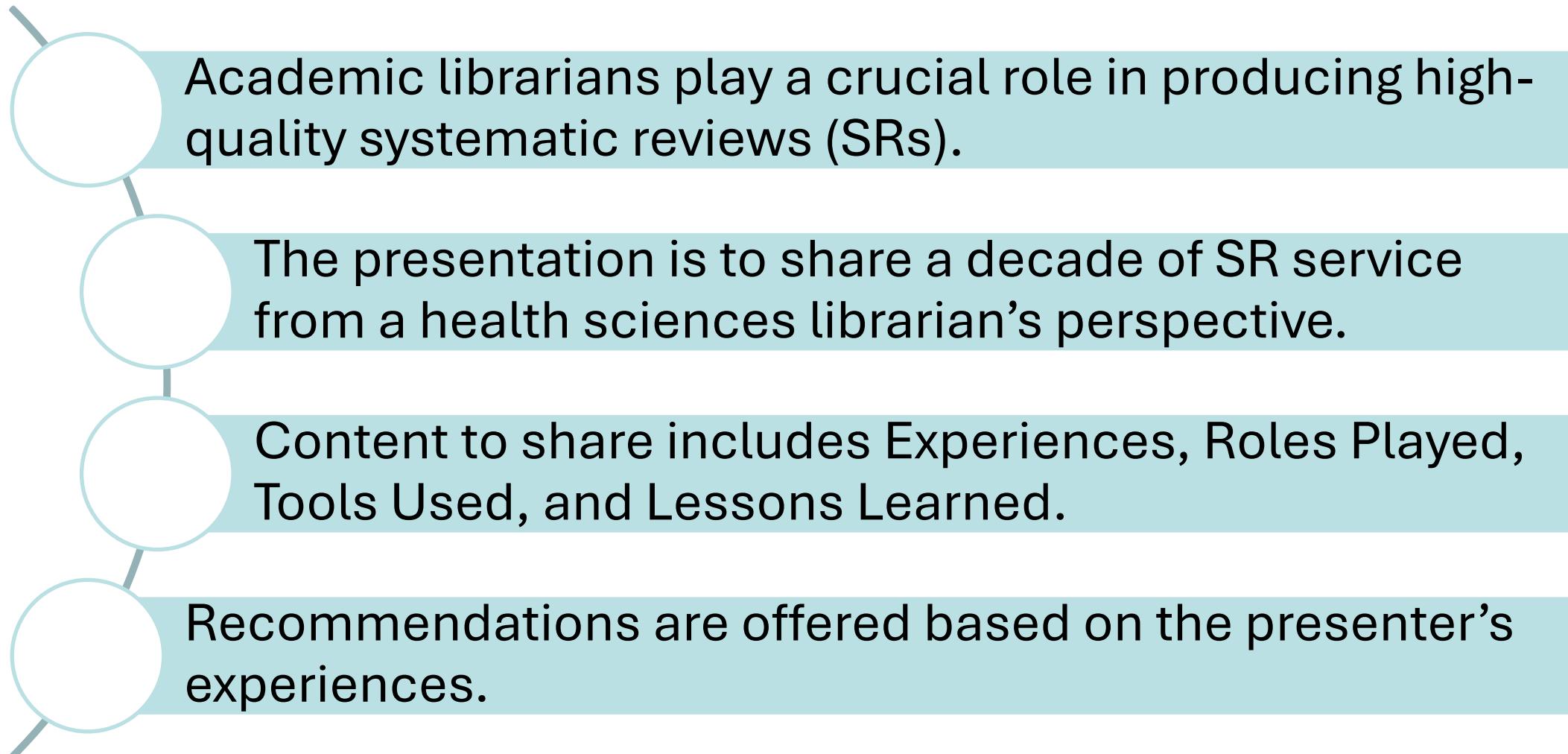
# Outline

- Overview
- Background
- Consultation & Training
- Roles Played
- SR Tools Used
- Statistics of SRs Supported
- Challenges Encountered
- Recommendations

Disclosure: This presentation is based on the recently published article:

Zhang, Y. (2025). A decade of systematic review services: experiences, challenges, and lessons learned from a health sciences librarian's perspective. *Medical Reference Services Quarterly*, 1–12. <https://doi.org/10.1080/02763869.2025.2595571>

# Overview

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- Academic librarians play a crucial role in producing high-quality systematic reviews (SRs).
  - The presentation is to share a decade of SR service from a health sciences librarian's perspective.
  - Content to share includes Experiences, Roles Played, Tools Used, and Lessons Learned.
  - Recommendations are offered based on the presenter's experiences.

# Background

- Rutgers Health – two health sciences libraries
- May 2015 – Launched SR service
- Two Tiers – Consultation and Collaboration
- Communication – Website, LibGuide, Training, Outreach
- Assessment – no formal assessment plan was established

# SR Service Requests Intake



Fill out the Online Request Form



Ask a Librarian



Send Emails



Live online Chat



Make an Appointment



Phone or Text



Visit Physical Libraries

# Standards & Guidelines

- Cochrane handbook for systematic reviews of interventions
- JBI manual for evidence synthesis
- Scoping Review, Chapter 10 in JBI manual for evidence synthesis
- Campbell systematic reviews: Policies and guidelines
- The Preferred Reporting Items for Systematic reviews and Meta-Analyses (PRISMA) statement
- PRISMA-Scoping Reviews
- PRISMA-Protocols
- PRISMA-Search

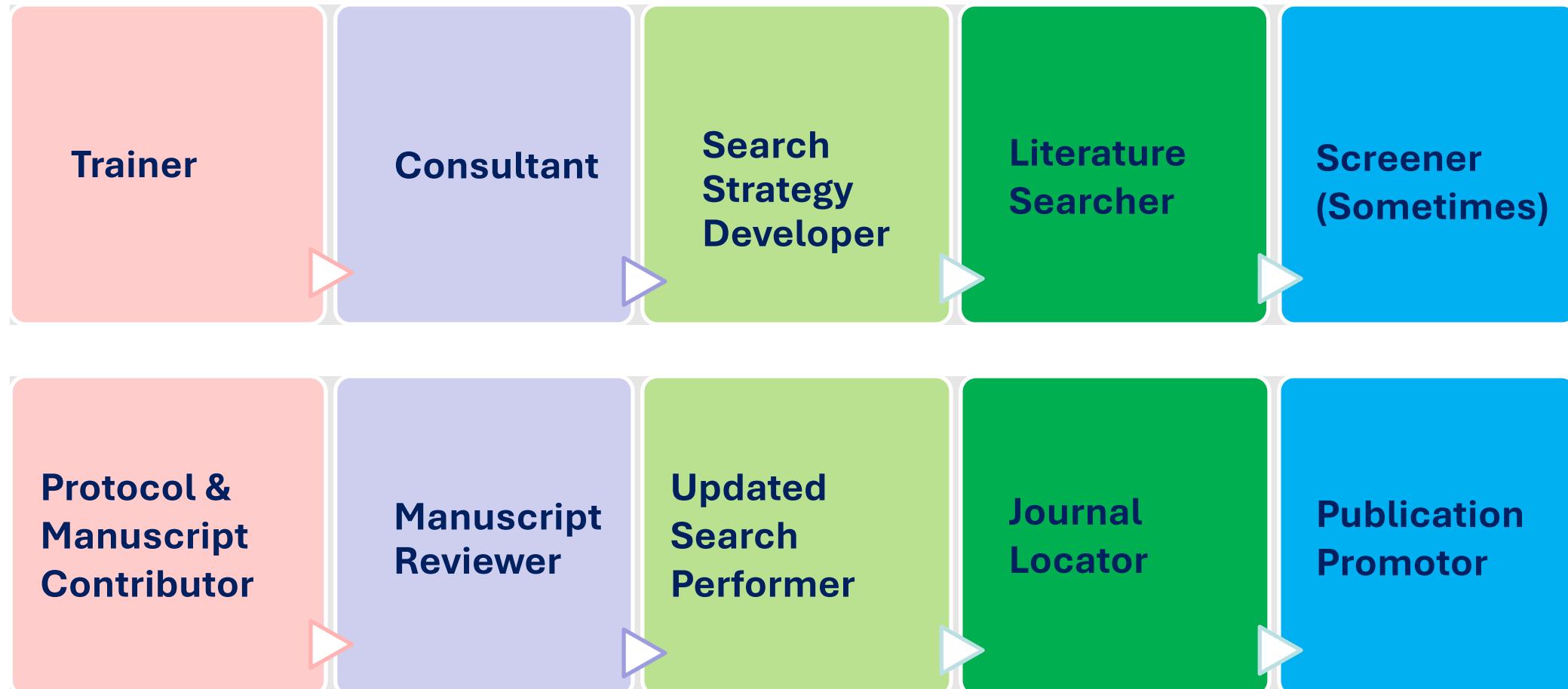
# Consultation & Training

The health sciences libraries started offering two tiers of SR service in 2015: Consultation (incl Training) and Collaboration.

For Consultation & Training, the librarians assist researchers to:

- Formulate and refine research questions
- Choose an appropriate review type
- Prepare and register SR protocols
- Formulate PICO, PEO, PCC, and other frameworks
- Harvest search terms and database-specific subject headings
- Develop and translate search strategy
- Select relevant databases and other information sources
- Document literature searches
- Use SR tools effectively
- Provide training workshops or course-embedded lectures on SRs

# Roles Played in SR Collaborations



# Information Sources Frequently Searched

- Medline via PubMe or PubMed in general
- Embase
- Cochrane Library (mostly CENTRAL)
- CINAHL
- APA PsycInfo
- Scopus
- Web of Science
- ProQuest Sociology & Social Sciences Collection
- ProQuest Dissertations & Theses Global
- ...

# Systematic Review Tools Used

- Citation Management
  - EndNote
  - Zotero
  - RefWorks
- Screening
  - Covidence (since Jan 2025), Rayyan, JBI SUMARI, SRDR+, Abstrackr, etc.
- Data Extraction
  - Covidence
- AI Tools for SRs Are Being Explored

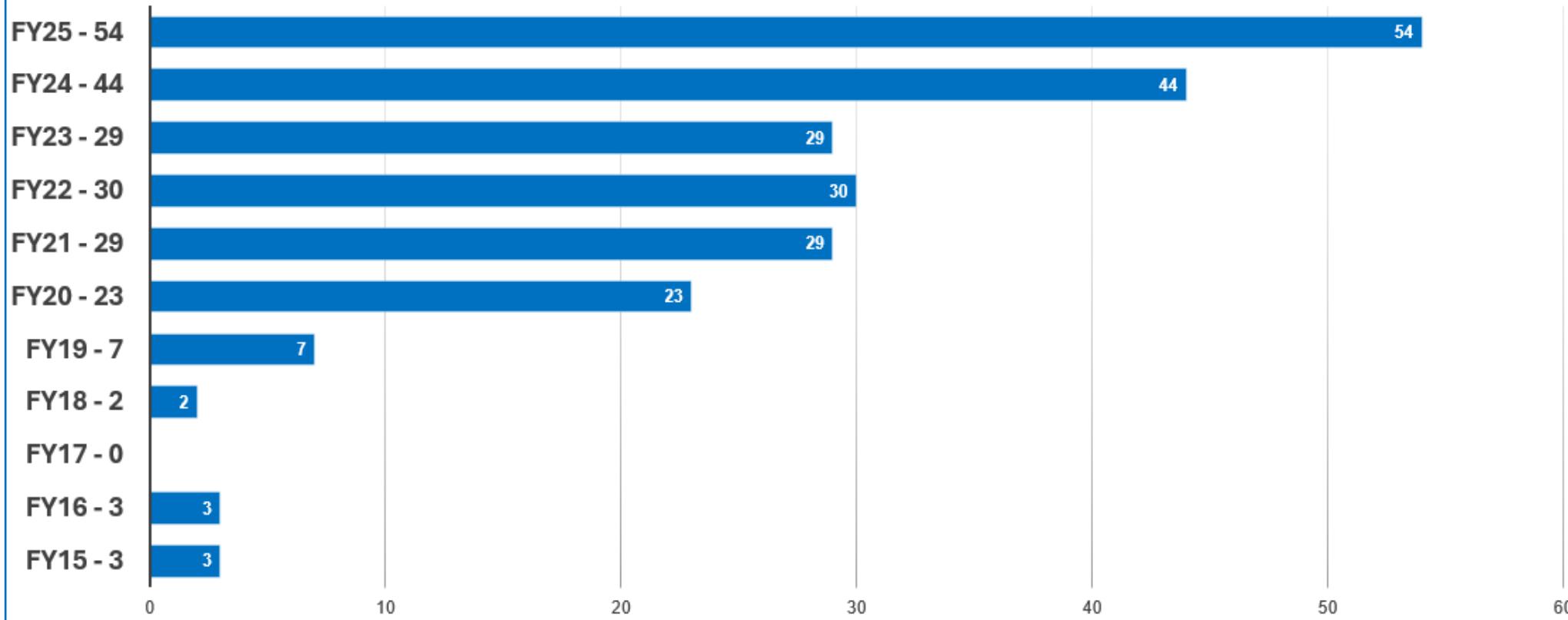
# 224 Systematic Review and Scoping Review Projects Supported

## July 1, 2014 – June 30, 2025

<u>Faculty / Staff / Fellows / Residents Collaborated</u>	<u>Faculty / Staff / Fellows / Residents Consulted</u>	<u>Students Consulted (incl SR Capstones)</u>	<u>Librarians Initiated</u>	<u>By Unit</u>	<u>By Fiscal Year</u>	<u>By Calendar Year</u>	<u>Total # of SR and ScR Projects Supported</u>
54	42	125	3	<b>224</b>	<b>224</b>	<b>224</b>	<b>224</b>
17 – Published			1 - Published	SPH (incl IFH, EOHSL) – 81	FY25 – 54	2025 – 28 (as of 6/30/25)	SRs – 184 (incl MAs & RR, UR, etc.)
2 – Posters only			1 - Published	RWJMS (incl UBHC) – 71	FY24 – 44		
2 – Accepted			1 - Paused	SHP – 15	FY23 – 29	2024 – 41	
3 – Submitted				NJMS – 12	FY22 – 30	2023 – 43	
4 – Writing up				CINJ – 11	FY21 – 29	2022 – 31	
11 – In progress				GSBS – 10	FY20 – 23	2021 – 36	
1 – Empty Rev				SAS – 6	FY19 – 7	2020 – 20	
5 – Discont'd				SDM - 4	FY18 – 2	2019 – 16	
1 – Paused				Library – 3	FY17 – 0	2018 – 1	
8 – Unknown				SSW – 3	FY16 – 3	2017 – 2	
				Rutgers Health – 2	FY15 – 3	2016 – 3	
				SEBS – 2		2015 – 2	
				Camden – 1			2014 – 1
				RU – 1			
				IPEC – 1			
				International – 1			

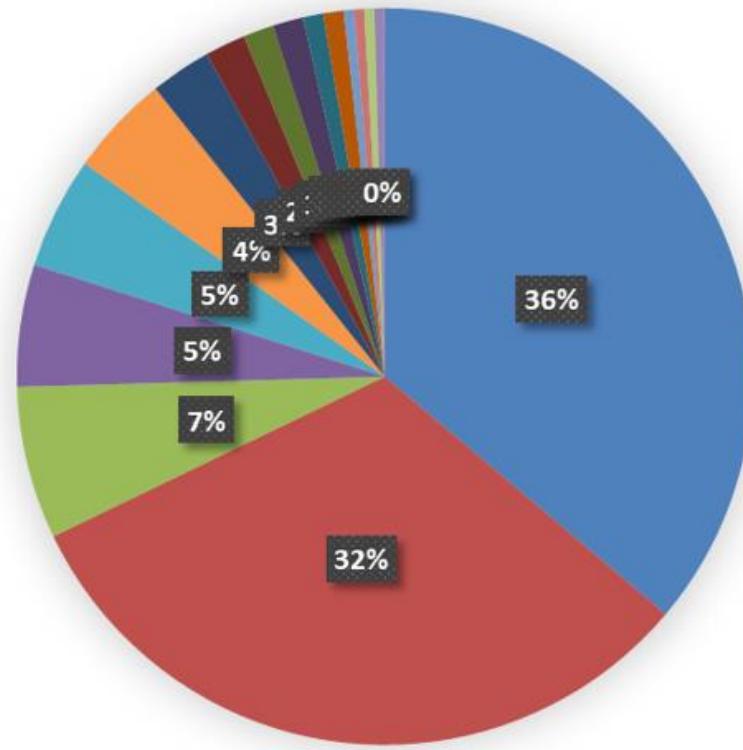
## 224 SR/ScR Projects by Fiscal Year

July 1, 2014 – June 30, 2025



# 224 SR/ScR Projects by Unit

(July 1, 2014 - June 30, 2025)



- SPH (including IFH, EOHSI) - 81
- RWJMS (including UBHC) - 71
- SHP - 15
- NJMS - 12
- CINJ - 11
- GSBS - 10
- SAS - 6
- SDM - 4
- Library - 3
- SSW - 3
- Rutgers Health - 2
- SEBS - 2
- Camden - 1
- RU - 1
- IPEC - 1
- International - 1

Note: The presenter serves as a liaison to SPH and CINJ, and is an adjunct assistant professor at RWJMS.

# Challenges Encountered

- Time and workload pressure arise due to high demand.
- Lack of researcher understanding of the SR process causes misunderstanding and requires training.
- Absence of SR protocol upon researchers' requests for support
- Delayed responses of team members hindering project progress.
- Recognition of contribution for co-authorship is not always honored.

# Lessons Learned

- Set boundaries and expectations at the beginning.
- Offer training workshops regularly
- Require a protocol to be in place
- Establish effective communication channels
- Require commitment of team members.
- Honor co-authorship (collaboration) / acknowledgment (consultation)

# Recommendations

- Develop an SR service model that best suits your library.
- Establish best practices to standardize service.
- Use an effective project management tool to track and assess the services provided collectively and to show the library impact.
- Make an assessment plan for both the service providers and recipients.
- Establish authorship guidelines in alignment with ICMJE recommendations if collaboration is made available.
- Explore and responsibly and ethically use selected AI assistants to help develop and translate search strategies and other SR phases with human-in-the-loop to enhance service efficiency.

# Using AI for SRs and Other ES Projects

- Follow the RAISE (Responsible use of AI in evidence SynthEsis) recommendations and guidance.
- Experiment using LLMs/GenAI tools for evidence synthesis with librarians' verification and refinement.
- Develop training programs to bridge any skill gaps in AI tool utilization and critical assessment of AI outputs pertaining to SRs and other evidence syntheses.
- Libraries develop a workflow that integrates GenAI as research assistants in the SR-ES process to improve efficiency without compromising quality.
- Document and emphasize librarian roles in AI-assisted SRs, outlining essential skills and knowledge areas.

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# Thank You!

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