



Providing Evidence about the Pandemic



Librarian Roles on a Rapid Response Team for COVID-19



Hello!



Hannah J. Craven, MLIS¹

Research & Scholarly Communications Librarian



@HannahC_MLIS



[0000-0002-1701-3655](https://orcid.org/0000-0002-1701-3655)

Rachel J. Hinrichs, MS, MSLS²

Health Sciences Librarian



@Rhinrichs1



[0000-0003-0762-744X](https://orcid.org/0000-0003-0762-744X)

Caitlin A. Pike, MLS, MPH²

Health Sciences Librarian

@Libris_Fidelis

[0000-0002-5758-1737](https://orcid.org/0000-0002-5758-1737)

Amy E. Blevins, MALS¹

Associate Director for Public Services

@blevinsa

[0000-0002-0859-2683](https://orcid.org/0000-0002-0859-2683)

¹Ruth Lilly Medical Library, Indiana University School of Medicine, Indianapolis, IN

²IUPUI University Library, Indiana University Purdue University-Indianapolis, Indianapolis, IN

Slides available

<http://hdl.handle.net/1805/25913>



This work is licensed under the Creative Commons Attribution 4.0 International License.
<http://creativecommons.org/licenses/by/4.0/>

Agenda



1. Answering a call to action
2. Project management
3. Utilizing our expertise
4. Project maintenance
5. Challenges
6. Project Assessment
7. Outcomes



1

Answering a call to action

Desire for Evidence-based Policy



How it Started



- Saturday, March 14, 2020
- University Librarian, Jere Odell, who had previous work experience with Amy Gilbert, JD, MPH sent the call to our library directors
- Wanted a librarian on the team
- Needed permission to “drop everything”

Purpose



Assist policy makers and front-line responders with making evidence-informed decisions regarding COVID-19 for their patients, health care, and Indiana by providing rapid, accurate information.

WISE Indiana

Indiana FSSA

Indiana CTSI

WISE Indiana

Continuing
Education

Vaccine FAQs

Annotated
Bibliographies



Internal Advisory
Team

Monthly Mingles
for COVID-19 Researchers

Literature
Reviews





2

Project management

Administration & Data Management



Administration



- RLML Associate Director leads the librarian team
 - Attended daily meetings with WISE Indiana Partners
 - Organized librarian team meetings
 - Established question assignment system for librarian
 - Important advocate to protect our time
 - Serves on WISE Indiana Internal Advisory Team

Data Management



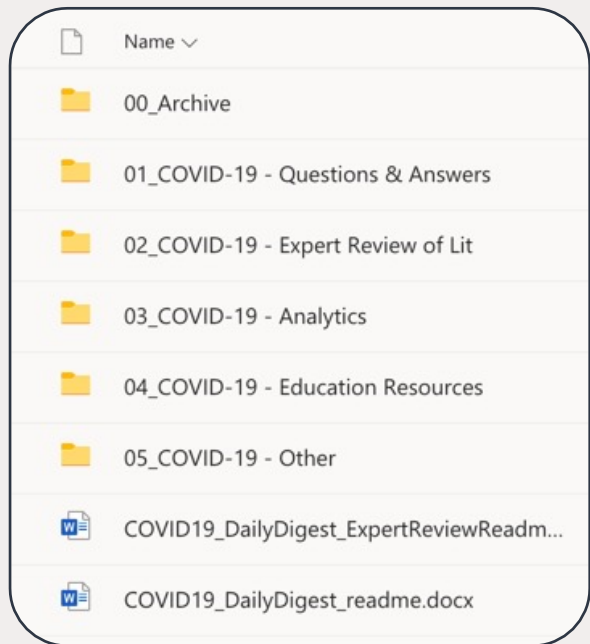
- Folder structure
- ReadMe files
 - Processes
 - Tracking document
 - File naming conventions
- Annotated Bibliography template
- Citation management

Excerpt from ReadMe file

4. Annotated Bibliography Steps

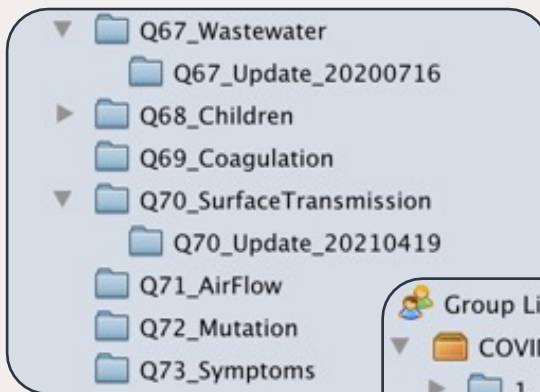
- 4.1. Email question received from [redacted]
- 4.2. Open files using “Online Mode”
- 4.3. If you open files otherwise, lock them first. Please unlock when completed.
- 4.4. Amy B. will add question to excel file COVID19_RRT.xlsx and assign it to a librarian
- 4.5. Use the template. (TEMPLATE_COVID19_RRT_Q##_Type_DescriptiveWord_INITIALS_YYYYMMDD.docx)
- 4.6. Save your Word document to “Questions and Answers” with the following file naming convention:
COVID19_RRT_Q##_Type_DescriptiveWord_LibrarianINITIALS_YYYYMMDD
Example: COVID19_RRT_Q05_Bib_Swabbing_HJC_20200315
- 4.7. Librarians send your completed response with just the link for the document to [redacted] and cc:
[redacted]
- 4.8. Complete the rest of the excel spreadsheet for your question for tracking purposes
(Link to file, Date answered, Answer location, Comments, etc.)
- 4.9. Move onto the next question

Folder structures



A screenshot of a file explorer window. At the top, there is a search bar with the text "Name" and a dropdown arrow. Below the search bar, there is a list of items:

- 00_Archive
- 01_COVID-19 - Questions & Answers
- 02_COVID-19 - Expert Review of Lit
- 03_COVID-19 - Analytics
- 04_COVID-19 - Education Resources
- 05_COVID-19 - Other
- COVID19_DailyDigest_ExpertReviewReadm...
- COVID19_DailyDigest_readme.docx



A screenshot of a file explorer window showing a hierarchical folder structure:

- Q67_Wastewater
 - Q67_Update_20200716
- Q68_Children
- Q69_Coagulation
- Q70_SurfaceTransmission
 - Q70_Update_20210419
- Q71_AirFlow
- Q72_Mutation
- Q73_Symptoms



A screenshot of a file explorer window showing a "Group Libraries" folder structure:

- COVID19 - Expert Review
 - 1_Citations of interest - ALL
 - 1a_Time sensitive
 - 2_Post in development
 - 3_Posted
 - Duplicate Items
 - Unfiled Items
 - Retracted Items
 - Trash

Zotero for citation management



Hannah Craven
@HannahC_MLIS

...

@zotero I'm working with a clinical group to help clinicians make evidence-based decisions related to #COVID19 is there a way we can waive the fee for unlimited storage during this crisis?

3:40 PM · Mar 31, 2020 · Twitter Web App



Zotero
@zotero

...

If you're using Zotero for research related to COVID-19, let us know at covid19@zotero.org. We'll provide unlimited online file storage for the duration of the crisis.

10:34 AM · Apr 1, 2020 · TweetDeck

282 Retweets 24 Quote Tweets 456 Likes



Hannah Craven @HannahC_MLIS · Apr 1, 2020

...

Replying to @zotero

Thank you so much!!! Email coming shortly! 🙏🙏🙏🙏🙏🙏



1



4



Hannah Craven @HannahC_MLIS · Apr 1, 2020

...

A response in under 3 hours! Thank you, @zotero! 😊



2





3

Utilizing our expertise

Librarians uniquely suited for this work



Our Expertise as Librarians



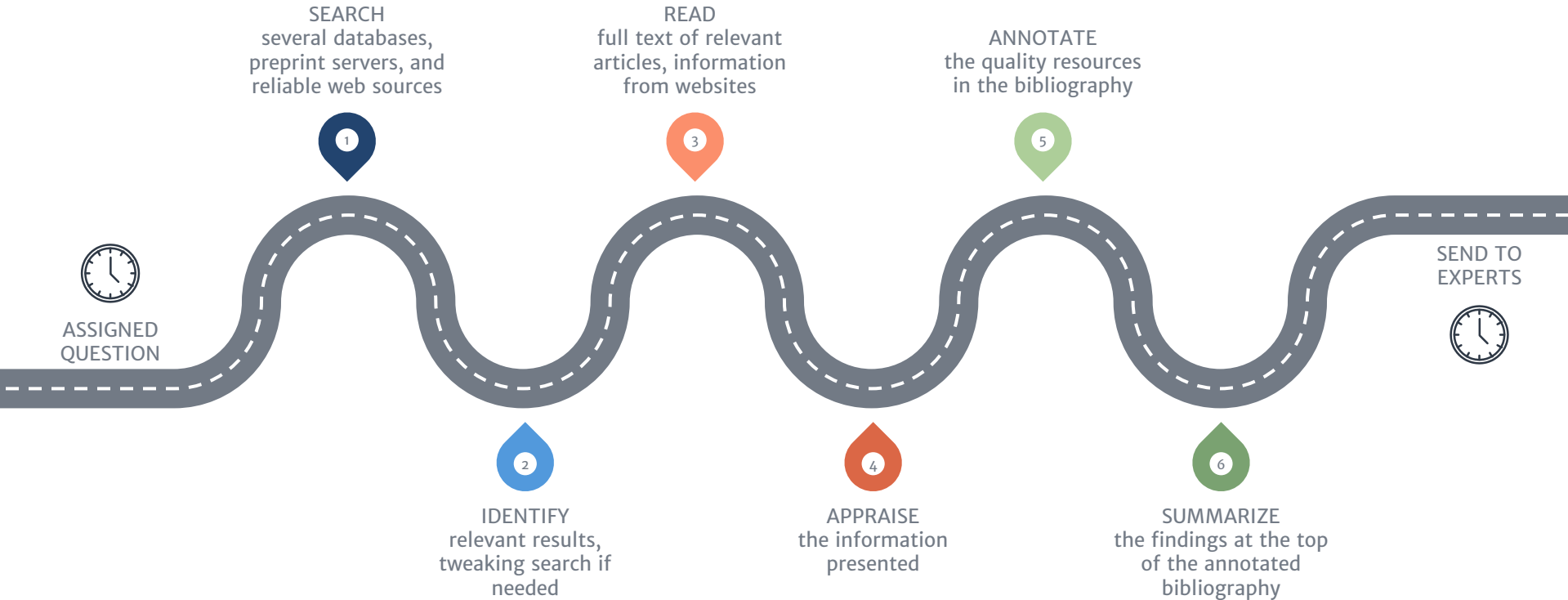
Expert searching in

- Evidence Based Medicine
- Public Health
- Nursing
- Law

Other relevant skills

- Critical Appraisal
- Synthesizing Research
- Data Management

Annotated Bibliographies process



<https://indianactsi.org/community/monon-collaborative/covid-19/questions/>

The screenshot shows the Indiana CTSI website. At the top, there are social media icons for Twitter and LinkedIn, and navigation links for Volunteer, Contact Us, Ask a Navigator, and Subscribe to CTSI News. The CTSI logo is on the left, and a search bar is on the right. A main navigation menu includes Home, About Us, Researchers, Community, News, Events & Multimedia, and COVID-19. The main content area features a large red banner with the text "COVID-19 DAILY DIGEST" and four sub-sections: ABOUT THE DIGEST, LITERATURE REVIEW, KEY QUESTIONS (highlighted with an orange arrow), and EDUCATIONAL RESOURCES. Below the banner is the text "FOR INDIANA'S FRONTLINE RESPONDERS" and a paragraph describing the digest's purpose. On the right, there is a "Subscribe to the Daily Digest" form with an email address field and a "Submit" button.

Disclaimer: This is not a clinical guideline or standard operating procedure. This is a summary of available evidence on the management of COVID-19 disease which practitioners and others engaged with Indiana's COVID-19 response may find useful. This document is current as of the date specified. Please note that new studies and literature are being published daily, and best practices are shifting rapidly during this international public health emergency.

ANNOTATED BIBLIOGRAPHY: Viral testing of wastewater

July 16, 2020

(Update from May 29, 2020)

What is the evidence base for viral testing of wastewater to inform COVID-19 mitigation and containment efforts?

****Updated content is highlighted.**

Evidence

Summary of the Evidence

- Due to viral shedding being detectable in feces, testing raw/untreated wastewater or [sewage sludge](#) for COVID-19 RNA with PCR is one method for detecting the presence and level of virus in

Citations

- Hart OE, Halden RU. Computational analysis of SARS-CoV-2/COVID-19 surveillance by wastewater-based epidemiology locally and globally: Feasibility, economy, opportunities and challenges. *Science of The Total Environment*. 2020;730:138875. doi:10.1016/j.scitotenv.2020.138875
 - "The present study combined consideration of economy, scaling, practicability, and data analysis, with a particular focus on wastewater temperature as an undecorated
- **to 2 million people to establish presence or absence of symptomatic or asymptomatic**
La Rosa G, Iaconelli M, Mancini P, et al. First detection of SARS-CoV-2 in untreated wastewaters in Italy. *Science of the Total Environment*. 2020;1:139652. doi:10.1016/j.scitotenv.2020.139652
 - No standard for WBE and COVID-19, so tested three RT-PCR assay methods (one novel designed by the authors) and one qPCR assay method

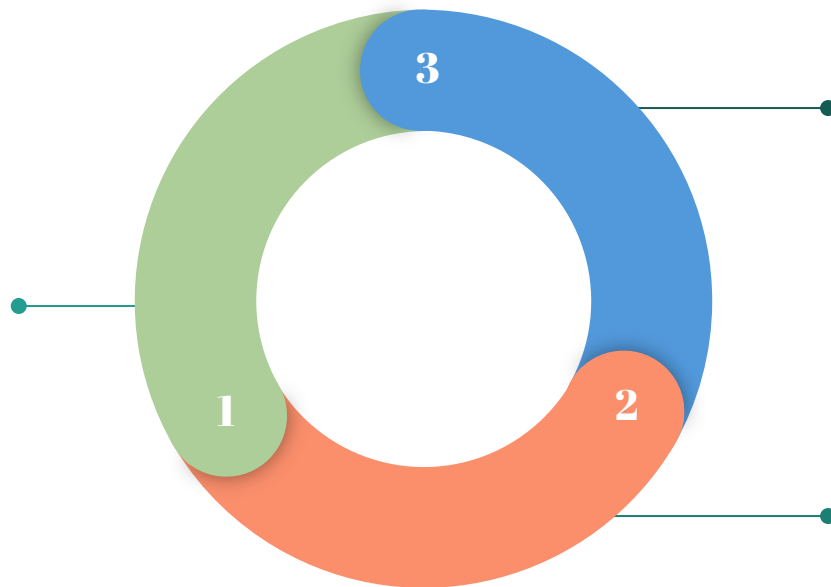


This work is licensed under a Creative Commons Attribution-NonCommercial 4.0 International License (creativecommons.org/licenses/by-nc/4.0/).

Daily Digest process

Librarian runs search

Librarians run their saved searches for the following topics: Clinical, Communication, Epidemiology, Mitigation, Resource Allocation, Schools, Aging population, etc.



Expert writes review of literature

Using handpicked articles, the experts would write daily/weekly blog posts summarizing the literature on their topic.

Articles delivered in Zotero

Citations were exported to Zotero by the librarian for the expert to access and use.

<https://indianactsi.org/community/monon-collaborative/covid-19/lit-review/>



4

Project maintenance

Tweaks to autopilot



Project maintenance



- Moved from urgency to maintenance
- Established process for onboarding and offboarding team members
- Scheduled data backups
- Created system for handling annotated bib updates
- Advocated for CC-BY-NC license



5

Challenges

Internal and external



Challenges



Internal locus of control

- High level subject matter
- Balance with other work duties
- Burnout
- Imposter Syndrome

External locus of control

- Understaffed libraries
- Weekend/after-hour work
- Ongoing pandemic
- Politics and policies



6

Project assessment

Quantitative & qualitative measures



Reminder: Purpose



Assist policy makers and front-line responders with making evidence-informed decisions regarding COVID-19 for their patients, health care, and Indiana by providing rapid, accurate information.

How to assess?



Some things are easy to measure:

- Number of questions answered
- Turn-around time
- Subscribers to the daily newsletter
- Clicks, views (Google Analytics)

Some things are harder:

- Are our materials being cited?
- Were changes in policy/health care due to information provided?



7

Outcomes

Benefits to both parties



108 questions answered

18 question updates

16-hour average turnaround time

Search updates for 900+ blog posts

“In this rapidly evolving pandemic, it is critical that frontline leaders have the most updated information possible.

The WISE Indiana partnership has allowed us to get the most current information available into the hands of those who need it to best protect Hoosiers.”

Kristina Box, MD, FACOG

**Indiana State
Health Commissioner**



“IU Health leaders have been able to use the data referenced in the WISE Indiana COVID-19 Daily Digest to make better-informed decisions about keeping patients and health care workers safe.”

Samir Gupta, MD
Professor of Medicine, IUSM
Physician, IU Health



“I have gotten frequent requests for the COVID-19 Daily Digest’s dissemination, and many groups within our system are using it as part of their own committee report-outs. This partnership highlights how our state, universities and health systems are able to work together to achieve a better product than any one group working alone.”

Cole Beeler, MD

**Associate Professor of Medicine, IUSM
Physician, IU Health**

Positive outcomes



- Distilling overwhelming deluge of information
- Greater visibilities of librarians
- Salary savings
- WISE Indiana contributors will receive “letter of appreciation” for Award for Excellence in Public Health from Dr. Kristina Box

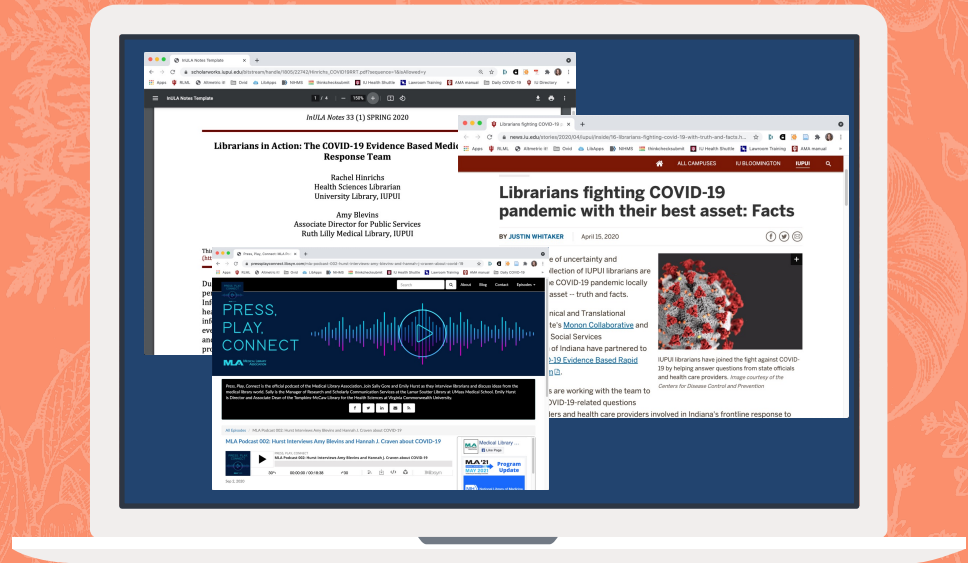
Learn more

Check out more information about the RRT to learn more details and nuances.

[InULA notes](#)

[News at IUPUI](#)

[MLA Podcast](#)



Thanks!



We would like to acknowledge
Miriam Murphy, JD, MLS and Chelsea Misquith, MI
for their work on the Rapid Response Team.

Hannah J. Craven, MLIS
hancrave@iu.edu
[@HannahC_MLIS](https://www.linkedin.com/in/HannahC_MLIS)

Rachel J. Hinrichs, MS, MSLS
Caitlin A. Pike, MLIS
Amy E. Blevins, MALS

Presentation template by [SlidesCarnival](#)

Botanical illustrations from
[Icones stirpium by Matthias de L'Obel](#) (public domain)