

# USING A TOOL TO TEACH SEARCH STRATEGY DEVELOPMENT

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# TWO EMBEDDED LIBRARIANS...

## Pharmacy

- PharmD students in 1<sup>st</sup> semester of study
- Goal: introduce complex search strategy development to answer drug information question
- Work is done in academic teams

## Public Health

- PhD and DrPH students in 2<sup>nd</sup> semester of study
- Goal: Complete literature review for a research class. Students have completed advanced search skills training in the previous semester.
- Work is done individually

# ...SAME PROBLEMS

- Simple searches
- Vague searches
- Multiple searches for the same concept
- Poorly-developed searches
- Haphazard article selection

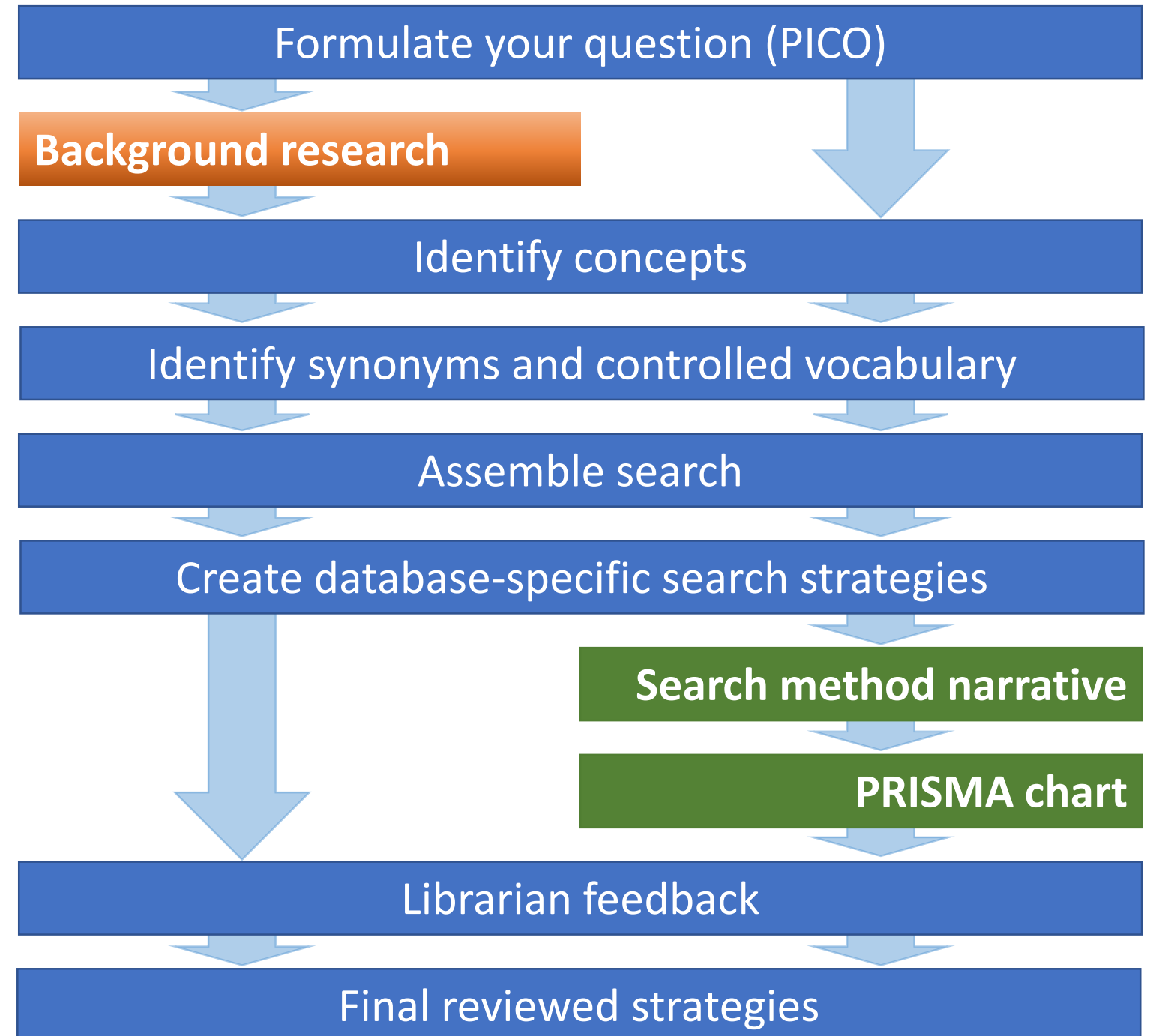


# BREAKING DOWN THE SEARCH PROCESS



## Pharmacy

## Public Health



# Librarian as reviewer rather than designer

# RESULTS



More robust search strategies



Greater understanding of controlled vocabulary



Improved knowledge of search process



More student engagement



# LEARNINGS

- Get IRB approval first!
- Delineate differences between PICO and search concepts
- Identify keywords first before getting into controlled vocabulary
- Form should be flexible to meet research needs of patron

## FORM-SPECIFIC LEARNINGS

- Use plain-text content controls to allow tabbing from field to field
- Make sure Developer is turned **off** and “Restrict Editing” is turned **on**

# INSTRUCTIONS TO USE FORM

- Both forms have a Creative Commons license, allowing you to alter and use form as you like if it is for non-commercial use and is attributed.
- To adjust the form to your own needs:
  1. Download the form desired below.
  2. Add/turn on the Developer toolbar in Microsoft Word.
  3. Click on Restrict Editing and then “Stop Protection”.
  4. Click on the “Design Mode” button and start editing.
  5. Don’t forget to reverse steps 3 & 4 when you are ready to distribute the form!

## Download Pharmacy Form

<http://bit.ly/USFCOPSearch>

SEARCH STRATEGY DEVELOPMENT	
<b>Formulation Question</b> Formulate a question you have been asked and identify the following information, even if you are not sure if you would use it in your search. If you have any questions, please contact the developer.	
<b>Population</b>	Click or tap here to enter text.
<b>Intervention</b>	Click or tap here to enter text.
<b>Comparison</b>	Click or tap here to enter text.
<b>Outcome</b>	Click or tap here to enter text.
<b>Refined Question</b> Refined above to create a clear statement of the research question. For example, "In patients with severe anemia from B12 deficiency, does iron supplementation reduce neurological symptoms?"	
<b>Search</b>	Click or tap here to enter text.
<b>State</b>	Click or tap here to enter text.
<b>Source</b>	Click or tap here to enter text.
<b>Year / n</b>	Click or tap here to enter text.
<b>Source</b>	Click or tap here to enter text.

## Download Public Health Form

<http://bit.ly/USFCOPHSearch>

Assignment: PICO, Search Strategy, Search Method Narrative, PRISMA diagram	
<b>Formulate Your Question</b>	
<b>Research Question</b>	Click or tap here to enter text.
<b>Identify Major Concepts from your PICO elements</b> Move items from PICO to Concepts now as it may take more than one concept to capture a single PICO element. What are the major concepts for your question?	
<b>Concept 1</b>	Click or tap here to enter text.
<b>Concept 2</b>	Click or tap here to enter text.
<b>Concept 3</b>	Click or tap here to enter text.