Preceptor Connection: Library Resources and Searching Refresher - Session for Students AND Preceptors

Janice Kung & Deanna Townsend
September 17th , 2024

Library Resources Overview

U of A & AHS

Image source: rawpixel.com

Attention: Preceptors!

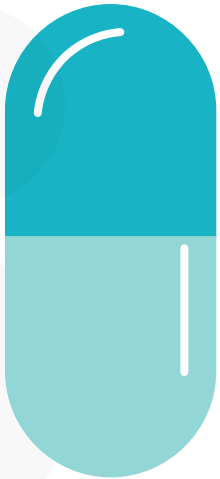
Apply for U of A Library Access!

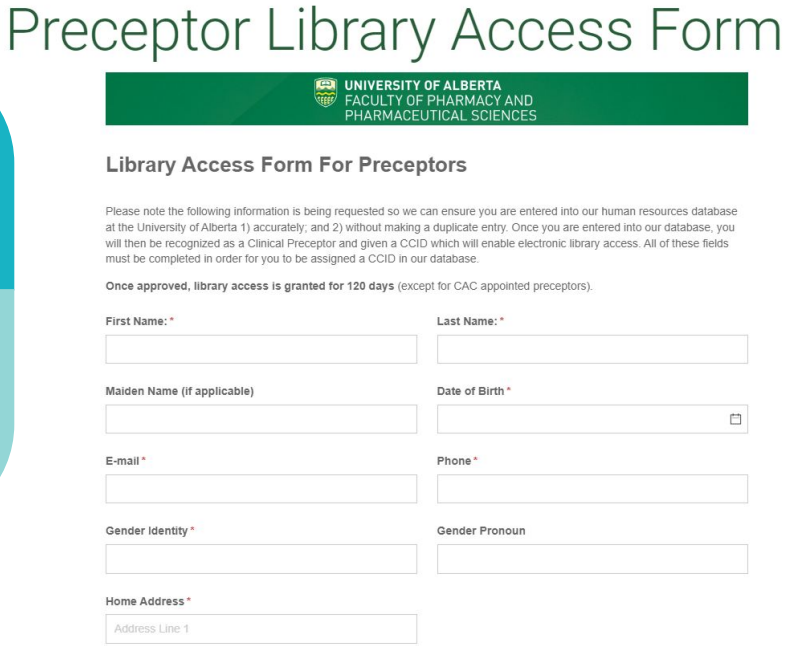
Clinical Preceptors: 120 days
Clinical Academic Colleagues: 3-year rolling term

Wealth of journals & Resources!

Increased access to journals not available at AHS.

E.g. Scopus/Web of Science





Preceptor Library Access Form

UNIVERSITY OF ALBERTA
FACULTY OF PHARMACY AND PHARMACEUTICAL SCIENCES

Library Access Form For Preceptors

Please note the following information is being requested so we can ensure you are entered into our human resources database at the University of Alberta 1) accurately; and 2) without making a duplicate entry. Once you are entered into our database, you will then be recognized as a Clinical Preceptor and given a CCID which will enable electronic library access. All of these fields must be completed in order for you to be assigned a CCID in our database.

Once approved, library access is granted for 120 days (except for CAC appointed preceptors).

First Name: *
Last Name: *
Maiden Name (if applicable)
Date of Birth *
E-mail *
Phone *
Gender Identity *
Gender Pronoun
Home Address *
Address Line 1

U of A Pharmacy Guide

https://guides.library.ualberta.ca/pharmacy

Subject Guides > Health Sciences > Pharmacy and Pharmaceutical Sciences > Home

Pharmacy and Pharmaceutical Sciences

Search this Guide Search

- Home
- Ebooks (Textbooks)
- Citation Help and Course-specific resources
- Mobile Apps
- Reference Management Software
- Online Dictionaries
- Pharmacy Resources & Patient Info
- Key Journals

Librarian

Article Databases ie. Non-Preappraised Research

- PubMed (with links to UofA e-journals)
- MEDLINE (1946-present via Ovid)
- Scopus
- EMBASE
- Web of Science - All Databases
- SciFinder-n
- CINAHL Plus with Full Text
- PsycINFO

Drug Information

- CPS Full Access
  Includes CPS Drug Information, critical updates such as warnings, advisories, and drug shortages; and useful tools such as medical calculators, Clin-Info, Pill Identifier, and Lexi-Interact drug interaction checker.
- UpToDate LexiDrug (formerly Lexicomp)
  Comprehensive drug information tool for use at the point of care. Contains drug monographs, modules for drug interactions, identification, calculations, toxicology, patient education, and natural products. A mobile app is available for download.
- AHS Parenteral Manual
- Drug Product Database (DPD)
- Bugs & Drugs

Search Across the Hierarchy of Evidence

- Trip Pro
- ACCESSSS Federated Search

Summaries & Guidelines

- DynaMed
  DynaMed is an evidence-based clinical point-of-care tool. Click here for instructions on how to download the mobile app to your phone.
- ClinicalKey
- Tools for Practice
- CPG Infobase: Clinical Practice Guidelines
- NICE Guidelines

Preappraised Resources

- Cochrane Library
- ACP Journal Club
  Click on "Journal Club" in Annals of Internal Medicine

Library Services (KRS)

6 Library Locations

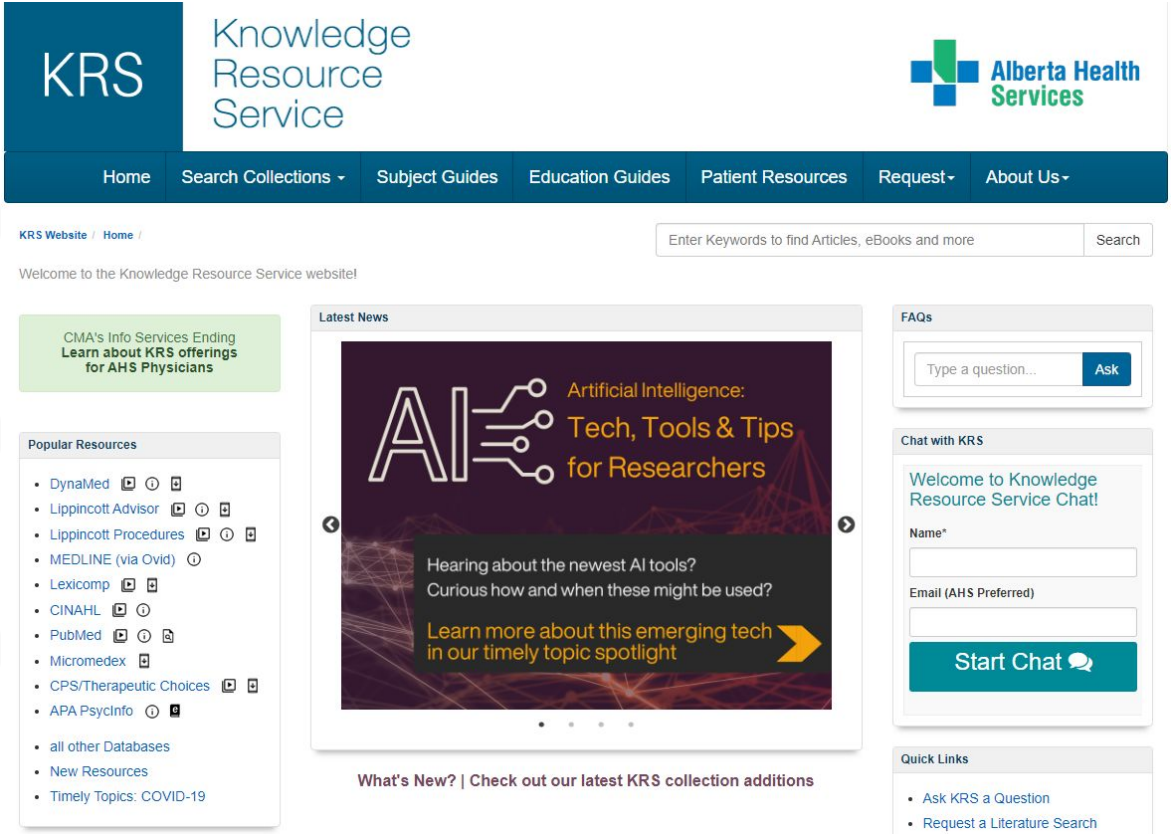
Edmonton, Calgary & Red Deer

Accessible Resources

Clinical Practice

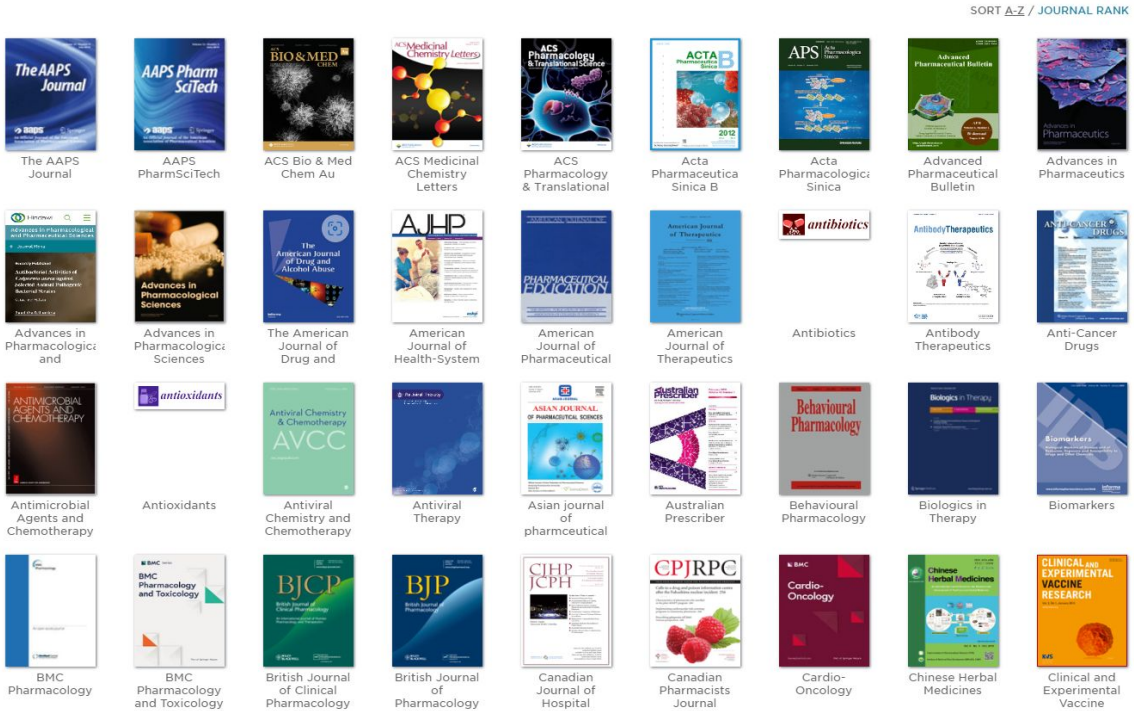
Support

Chat & Request Services



krs.ahs.ca

Supporting Evidence-Informed Practice



Point of Care Resources

- DynaMed
- LexiDrug

Reference Services & Support

- Article Requests
- Search Support
- Drug Information

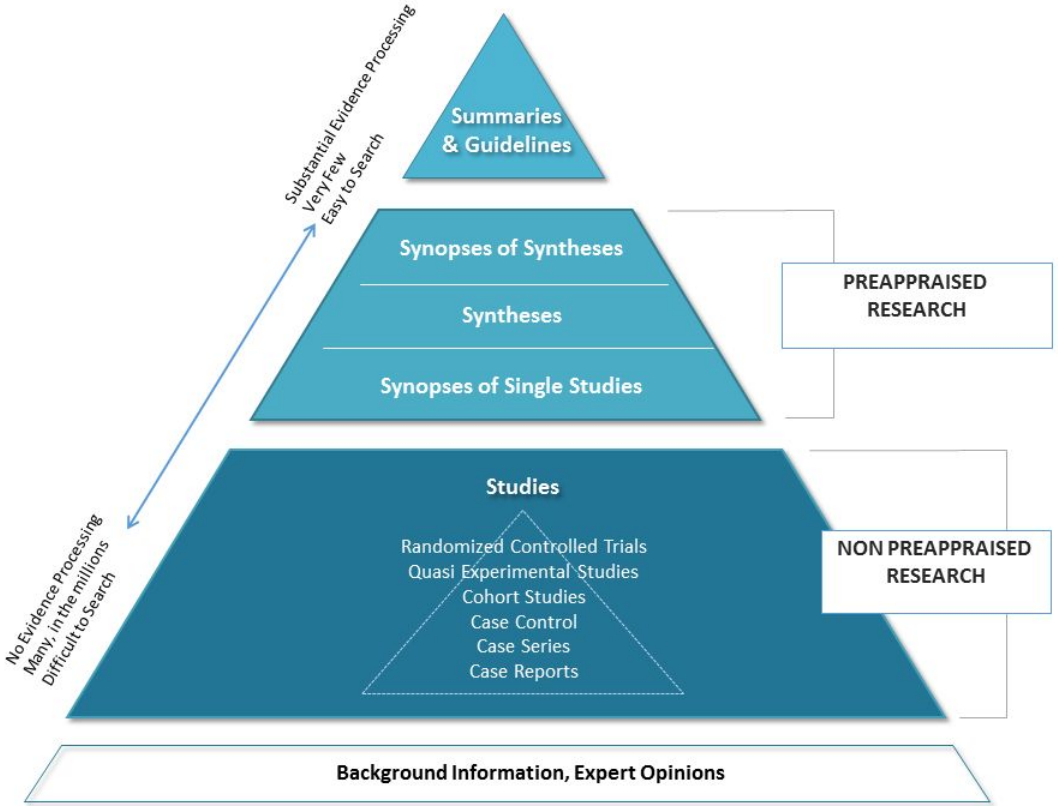
Searching

Basic vs. Advanced

Image source: rawpixel.com

QUESTION

Levels of Evidence

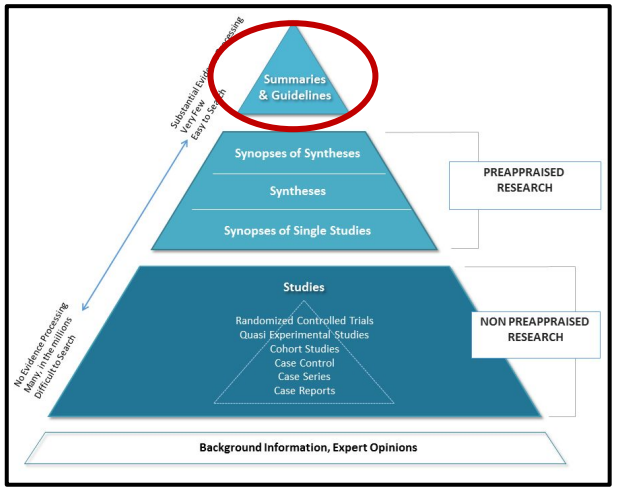


Adapted by L. Tjosvold from: Agoritsas T, Vandvik P, Neumann I, Rochwerg B, Jaeschke R, Hayward R, Guyatt G, McKibbon K. Finding Current Best Evidence. In: Guyatt G, Meade MO, Rennie D, Cook DJ. eds. JAMA evidence Using Evidence to Improve Care. New York, NY: McGraw-Hill; 2014.

Clinical Searching

Basic

Image source: rawpixel.com

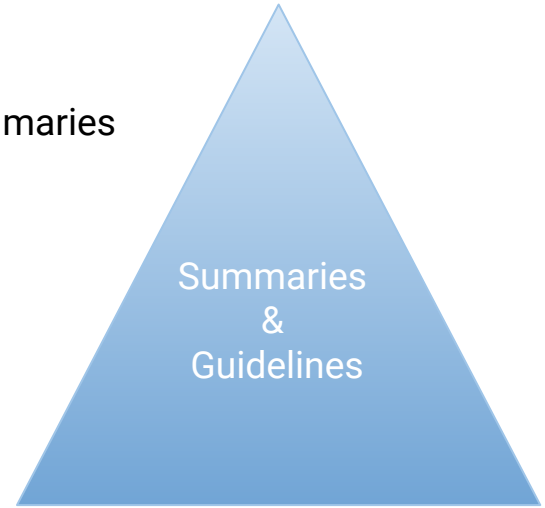


Levels of Evidence & Clinical Searching

Evidence based summaries

& clinical guidance

- TRIP
- LexiDrug
- Dynamed
- CPS



Pre-Appraised Research

Adapted by L. Tjosvold from: Agoritsas T, Vandvik P, Neumann I, Rochwerg B, Jaeschke R, Hayward R, Guyatt G, McKibbon K. Finding Current Best Evidence. In: Guyatt G, Meade MO, Rennie D, Cook DJ. eds. JAMA evidence Using Evidence to Improve Care. New York, NY: McGraw-Hill; 2014.

Point of Care Tools

Clinical Topics & Answers

DynaMed

Evidence-based clinical decision support for all health care staff written by physicians.
Best for its: Breadth/depth of clinical topics, expert overviews and recommendations, easy to find related practice guidelines.
Integrated into Connect Care

Lippincott Advisor

Evidence-based information to support nursing practice at the point of care.
Best for its: Nursing focus, including: nursing considerations for each clinical topic, nursing care plans, patient teaching library.
Integrated into Connect Care

Clinical Skills & Procedures

Lippincott Procedures

Step-by-step guidance, covering nursing, physical therapy, and respiratory therapy procedures and skills.
Best for its: Clear skill checklists, procedures with images/videos, groupings by specialty settings.
Integrated into Connect Care and Desktop Shortcut (on most AHS devices)

Drug Information

UpToDate® Lexidrug™

Comprehensive drug information with several specialty collections and resources (Trissel's IV-Check, Briggs Drugs in Pregnancy and Lactation, Martindale, ect.)
Best for its: Patient information handouts, and specialty resources.
Integrated into Connect Care

Micromedex

Comprehensive drug information and clinical decision support tools.
Best for its: Poisoning and toxicology resources

Summarizes Current Evidence

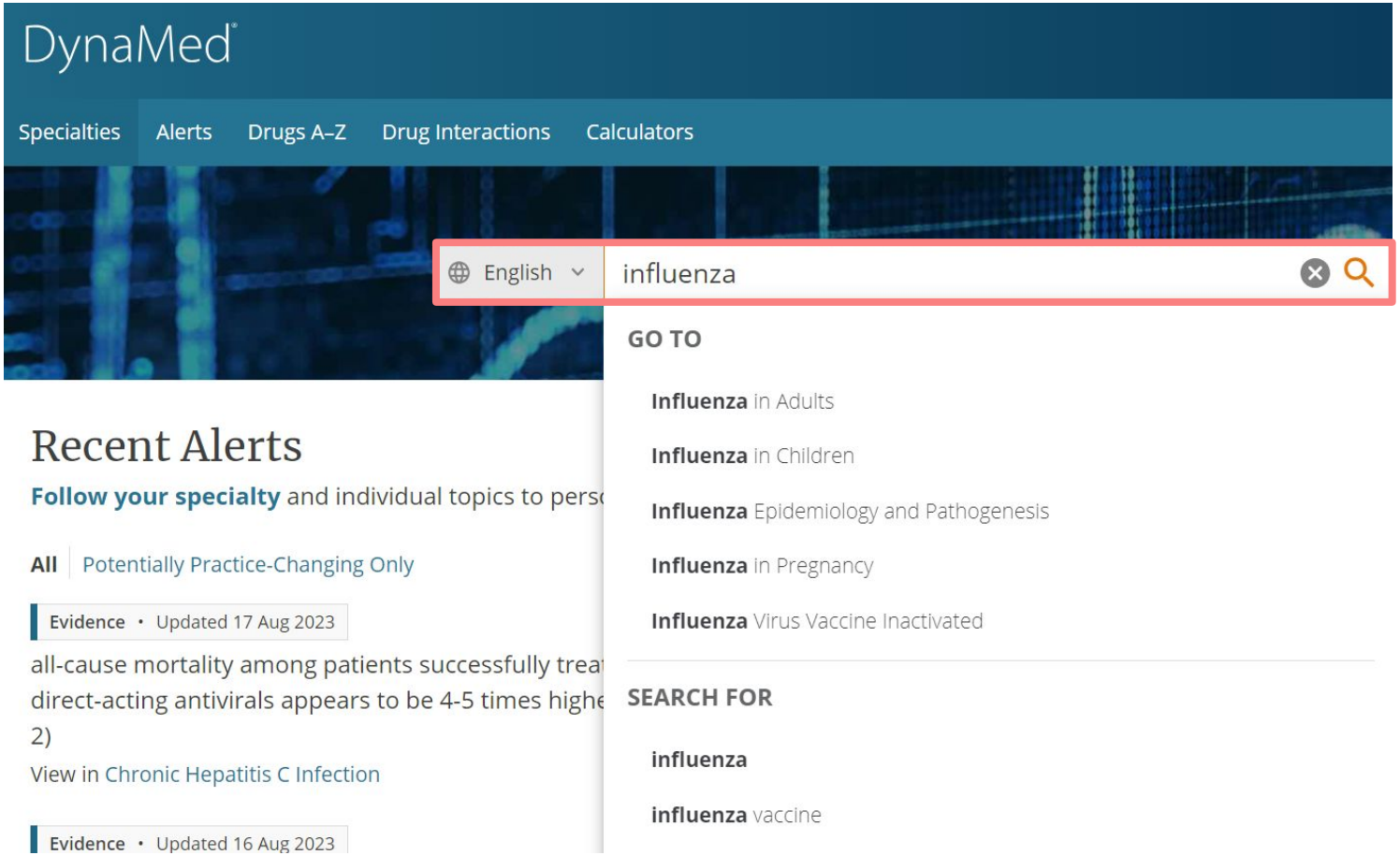
Information is Concise

Supports Clinical Questions & Skills

Connect Care Integrated

Easy to Use & Search

Mobile Accessible


DynaMed
Specialties
Alerts
Drugs A–Z
Drug Interactions
Calculators
English
influenza
GO TO
Influenza in Adults
Influenza in Children
Influenza Epidemiology and Pathogenesis
Influenza in Pregnancy
Influenza Virus Vaccine Inactivated
SEARCH FOR
influenza
influenza vaccine
Recent Alerts
Follow your specialty and individual topics to perso
All
Potentially Practice-Changing Only
Evidence • Updated 17 Aug 2023
all-cause mortality among patients successfully treat
direct-acting antivirals appears to be 4-5 times highe
2)
View in Chronic Hepatitis C Infection
Evidence • Updated 16 Aug 2023

DynaMed

Claim CME Credit

Specialties Alerts Drugs A–Z Drug Interactions Calculators

CONDITION

Influenza in Adults

Topic Updates Images About

SECTIONS:

Overview and Recommendations

Related Topics

General Information

Epidemiology

Etiology and Pathogenesis

Clinical Presentation

Diagnosis

Treatment

Complications and Prognosis

Prevention and Screening

Guidelines and Resources

Patient Information

References

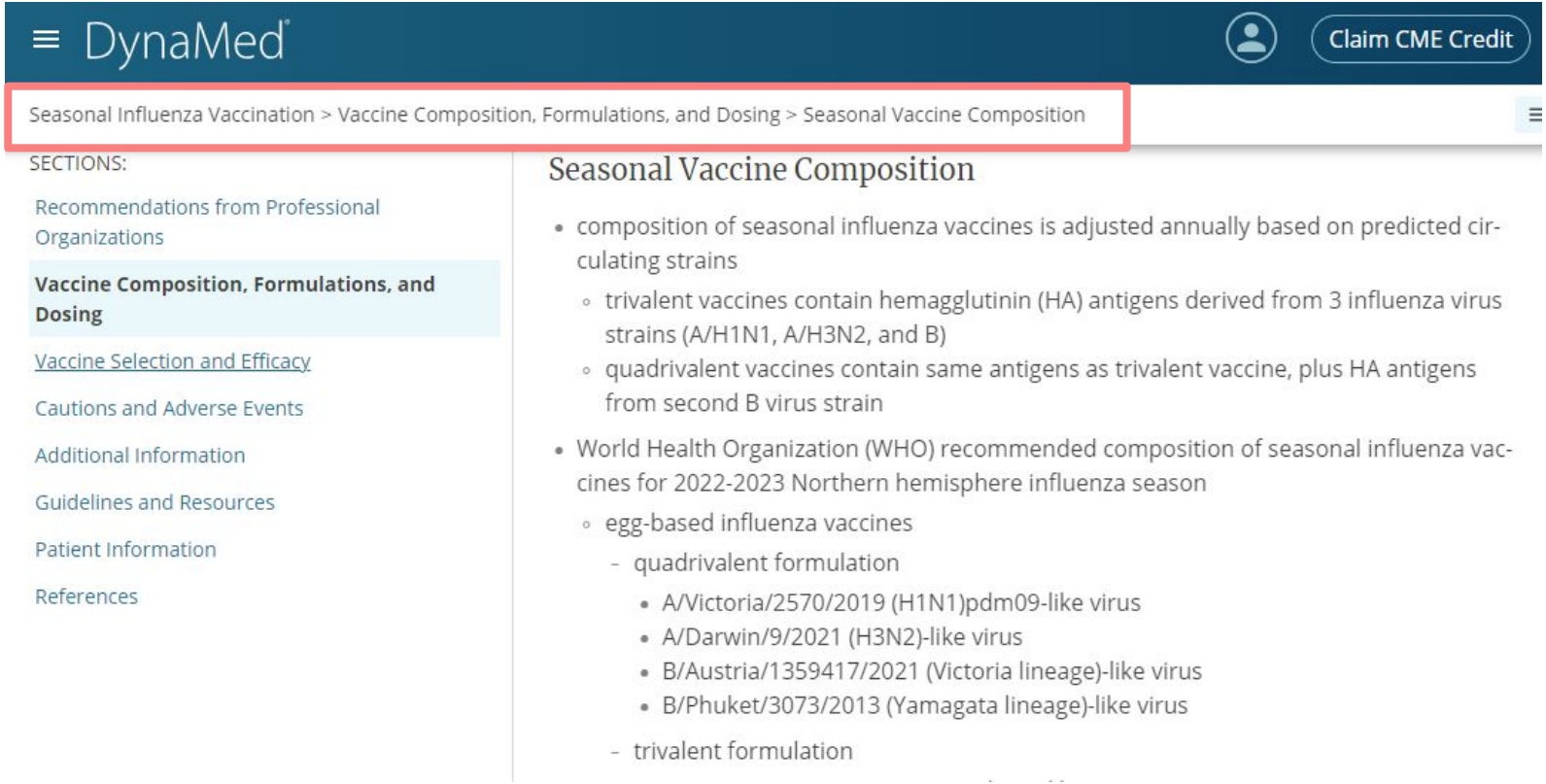
< Previous Section Next Section >

Overview and Recommendations

In this Section

Background

- Influenza in adults is a major cause of mortality and morbidity worldwide.
  - Annual epidemics in adults and children are associated with an estimated 3-5 million cases of severe illness and about 290,000-650,000 deaths.
  - Influenza infection is seasonal in temperate countries, with peaks during the winter months, but has sustained activity throughout the year in tropical climates.
- Influenza is a single-stranded, segmented, negative-sense, RNA virus, and member of the Orthomyxoviridae family.
  - Infection can be caused by 1 of 3 types of influenza virus, subtypes A, B, and C.
    - Influenza A and B are the dominant circulating viruses causing seasonal influenza epidemics.
    - Influenza C is believed to cause mild infection, but does not contribute to seasonal epidemics.
  - Minor genetic variations (antigenic drift caused by accumulating random mutations) are the cause of seasonal variation.


DynaMed
Claim CME Credit
Seasonal Influenza Vaccination > Vaccine Composition, Formulations, and Dosing > Seasonal Vaccine Composition
SECTIONS:
Recommendations from Professional Organizations
Vaccine Composition, Formulations, and Dosing
Vaccine Selection and Efficacy
Cautions and Adverse Events
Additional Information
Guidelines and Resources
Patient Information
References
Seasonal Vaccine Composition
composition of seasonal influenza vaccines is adjusted annually based on predicted circulating strains
trivalent vaccines contain hemagglutinin (HA) antigens derived from 3 influenza virus strains (A/H1N1, A/H3N2, and B)
quadrivalent vaccines contain same antigens as trivalent vaccine, plus HA antigens from second B virus strain
World Health Organization (WHO) recommended composition of seasonal influenza vaccines for 2022-2023 Northern hemisphere influenza season
egg-based influenza vaccines
quadrivalent formulation
A/Victoria/2570/2019 (H1N1)pdm09-like virus
A/Darwin/9/2021 (H3N2)-like virus
B/Austria/1359417/2021 (Victoria lineage)-like virus
B/Phuket/3073/2013 (Yamagata lineage)-like virus
trivalent formulation

Searching for Research Purposes

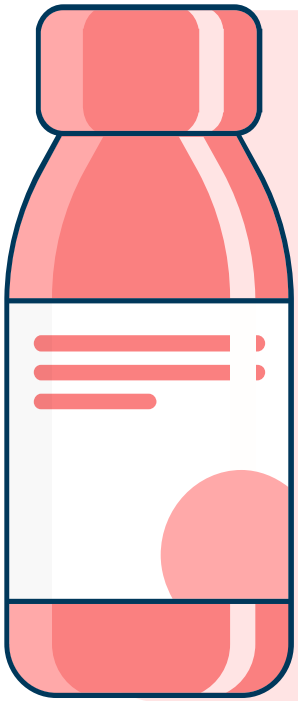
Advanced

Image source: rawpixel.com

Steps in a Systematic Search

1. Develop a clear, searchable research question
2. Identify key concepts from the research question
   Frameworks can organize these ideas
3. Organize concepts into circle diagram
   Visualize how concepts relate
4. Identify synonyms for each concept
   Language is important
5. Combine search concepts using appropriate operators (AND, OR)

Sample Research Question



For patients 65 years and older, does the use of an influenza vaccine reduce the future risk of pneumonia compared with patients who have not received the vaccine?

Identify Concepts in Research Question

P Population or Problem
I Intervention
C Comparison
O Outcomes

S - Study design
T - Time
S - Setting

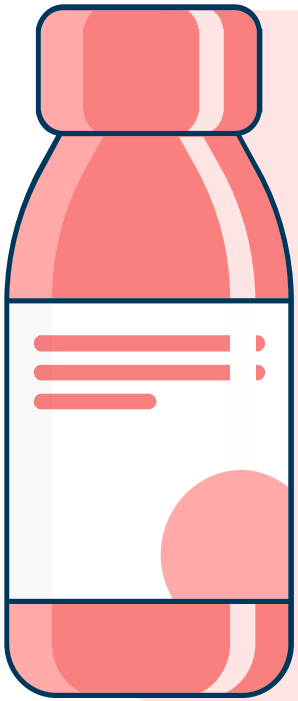
PICOS	*Ask yourself:*	*Example:*
Population (patient)	How would I describe a group of patients similar to mine? *What main problem am I studying?*	
Intervention (drug, procedure, etc.)	Which main intervention, am I considering?	
Comparison (optional)	What is the main alternative to compare with the intervention?	
Outcome	What can I hope to accomplish, measure, improve or affect?	
Study design	What study design would provide the best level of evidence for this question?	

Another Way to Break Down Research Questions

What are the experiences of pharmacists working in disaster settings (e.g. wildfire emergencies)?

P	Population or Problem	Pharmacists
C	Concept	Experiences
C	Context	Disaster settings

Sample Research Question



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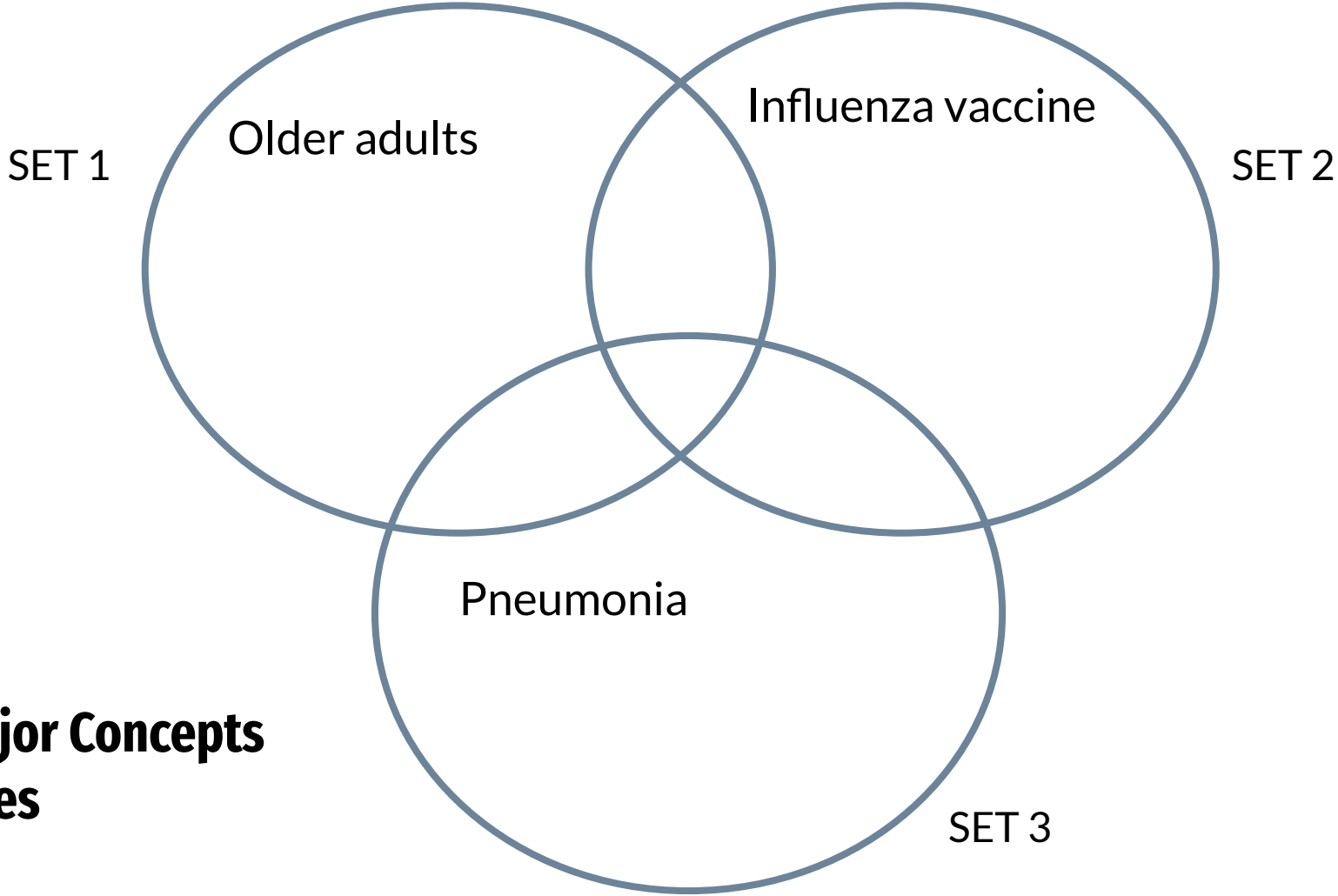
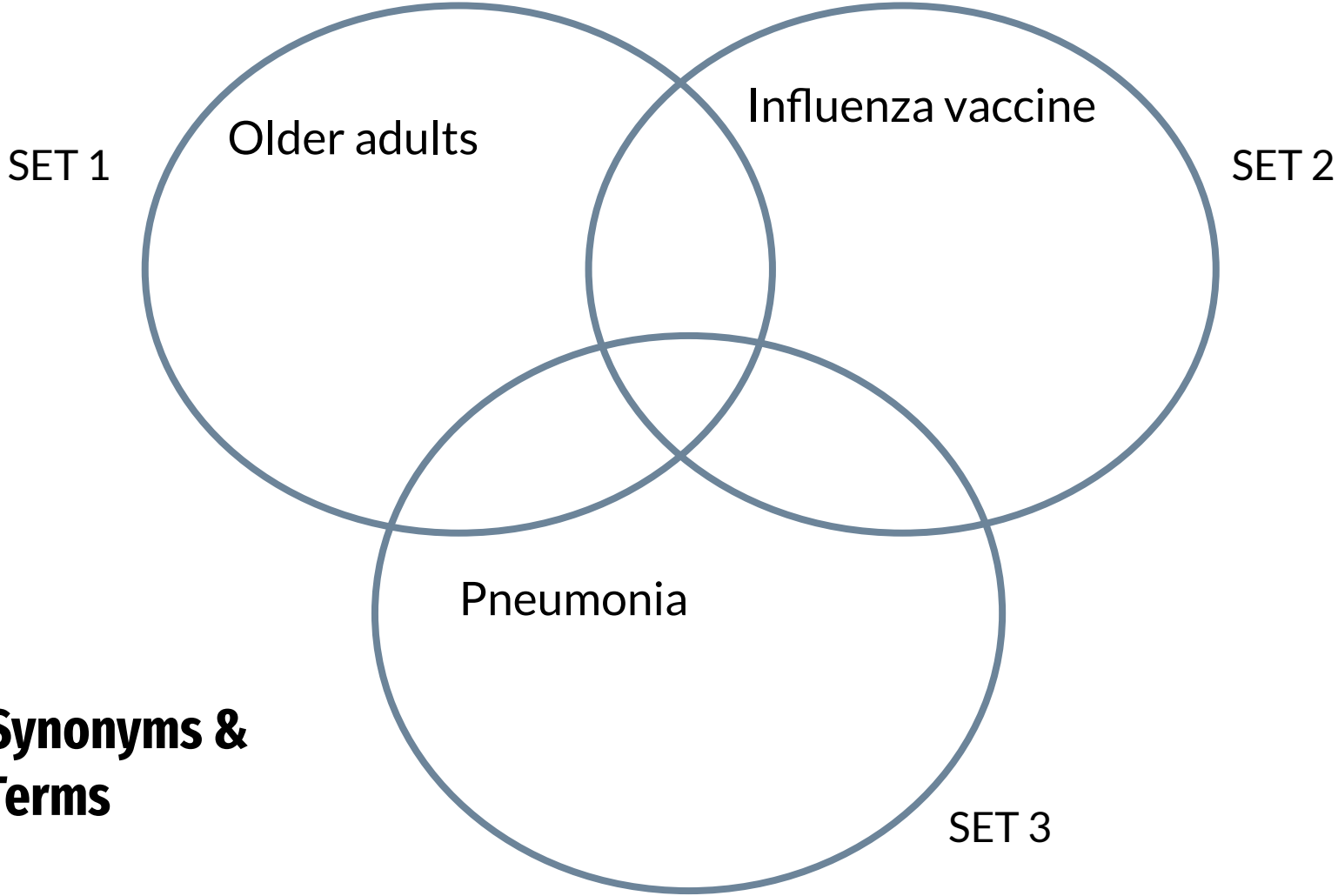
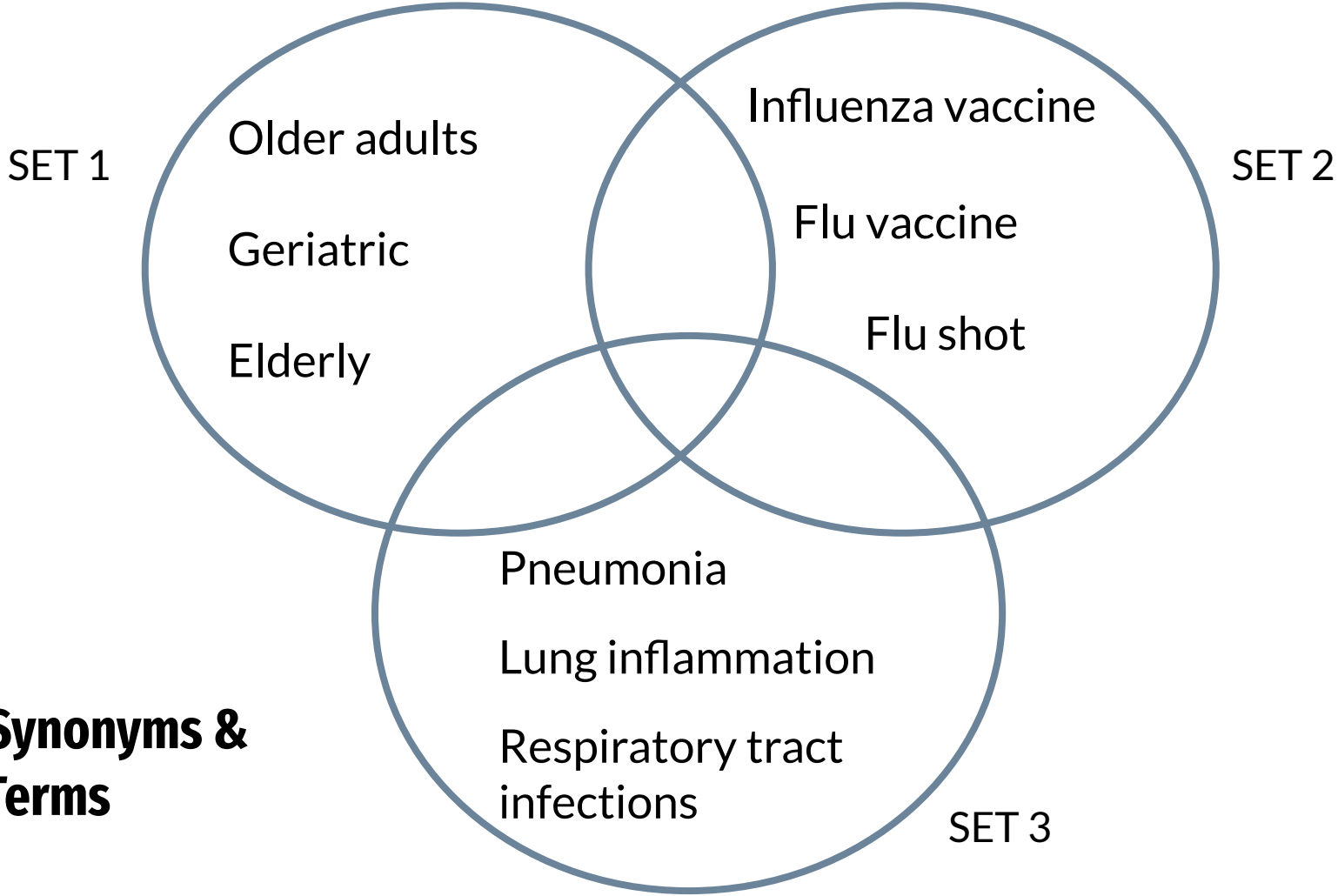


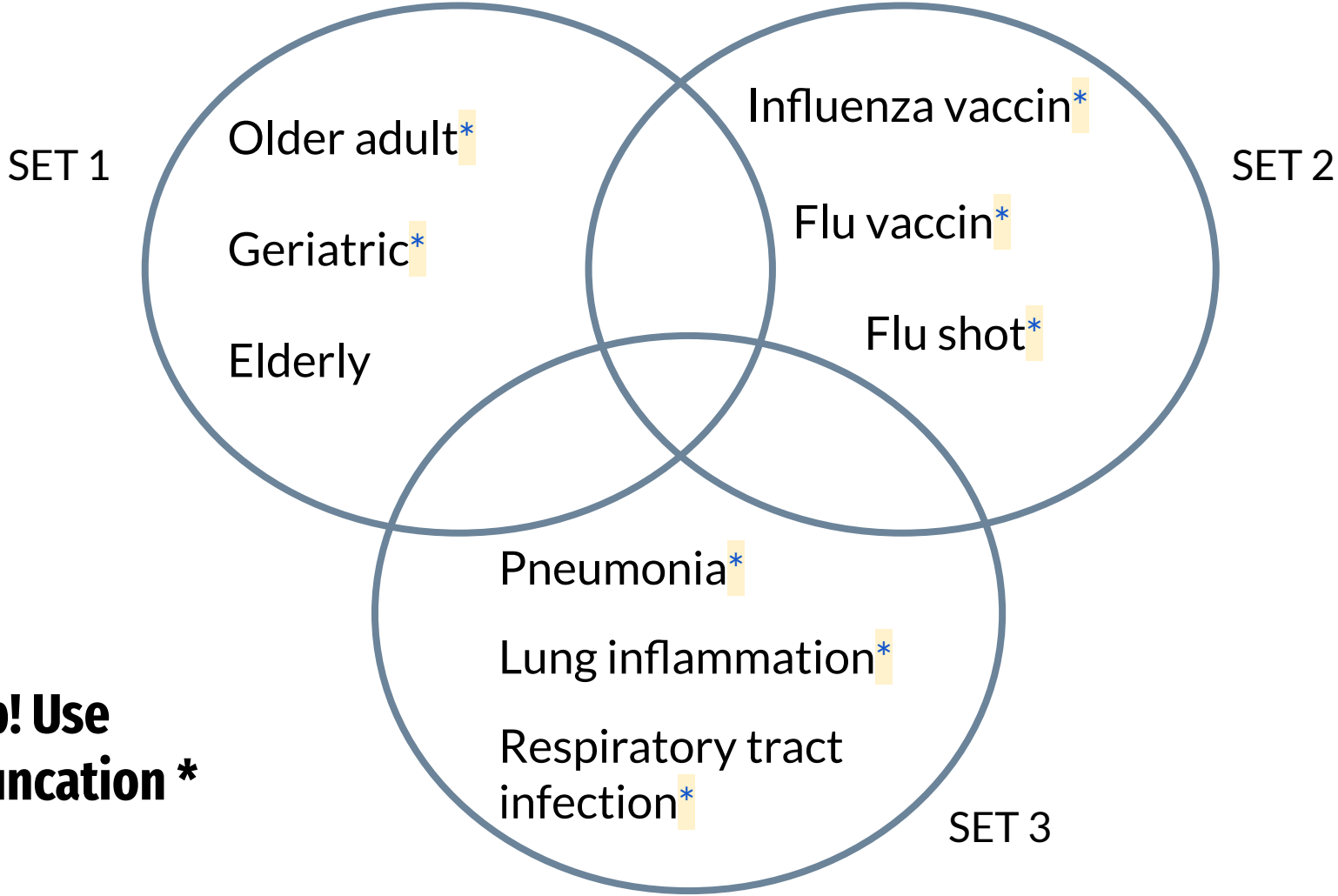
Move Major Concepts to Bubbles



Identify Synonyms & Related Terms

Identify Synonyms & Related Terms





Tip! Use truncation *

How to Develop a Better Search?

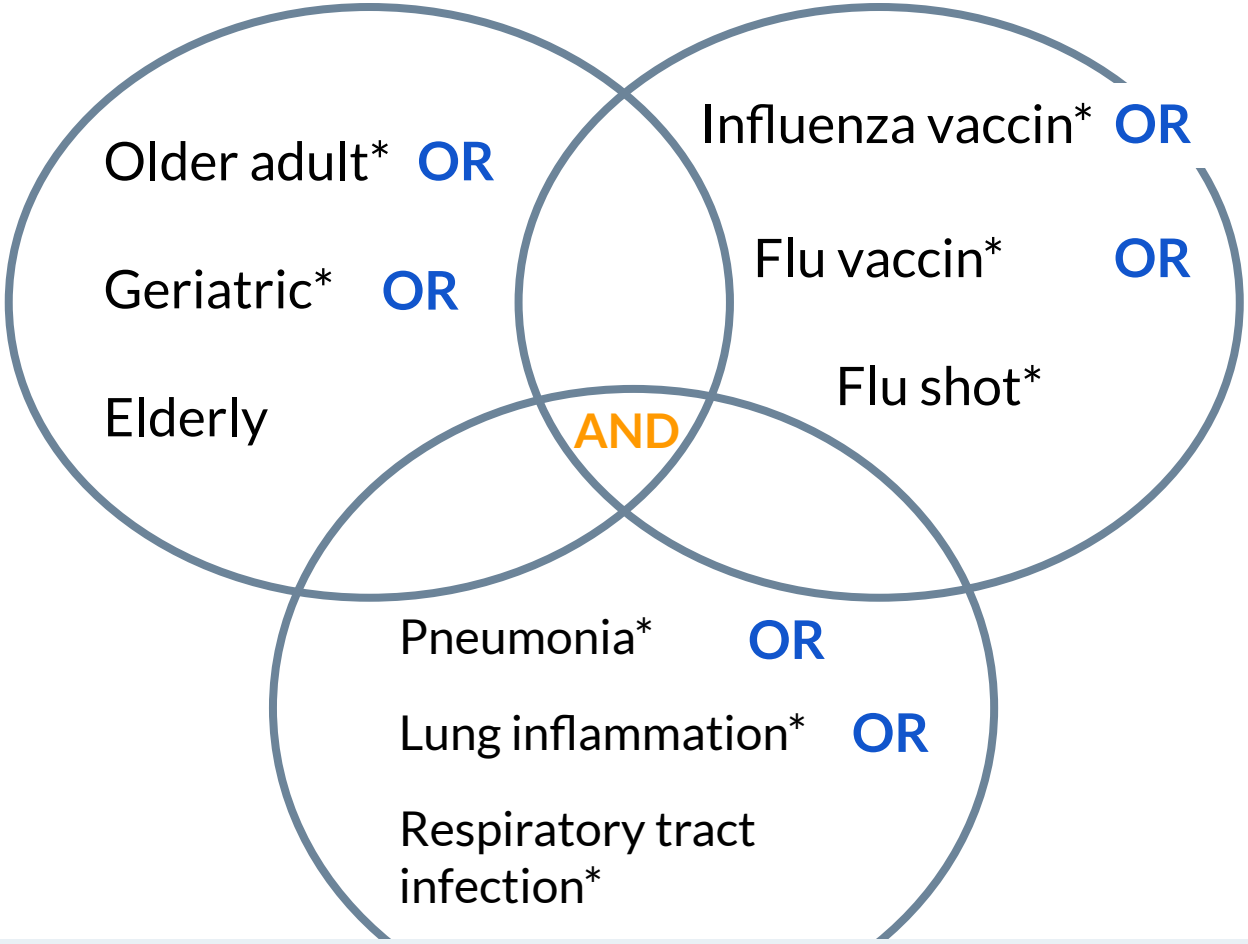
Truncation: kidney* = kidney, kidneys
→ Be careful that the root word is not too short! e.g. cat*

Synonyms: cancer, neoplasms, tumor, malignancy
→ Can be true synonyms, subtypes/examples, methods

Antonyms: barriers/facilitators, success/failure

Alternate spellings: optimise, optimize

Trade names/Generic names: Tylenol vs. acetaminophen



OR = More (older adult* OR geriatric* OR elderly)
AND = Less (older adult* AND flu shot* AND pneumonia*)

Combine Terms: Boolean Operators

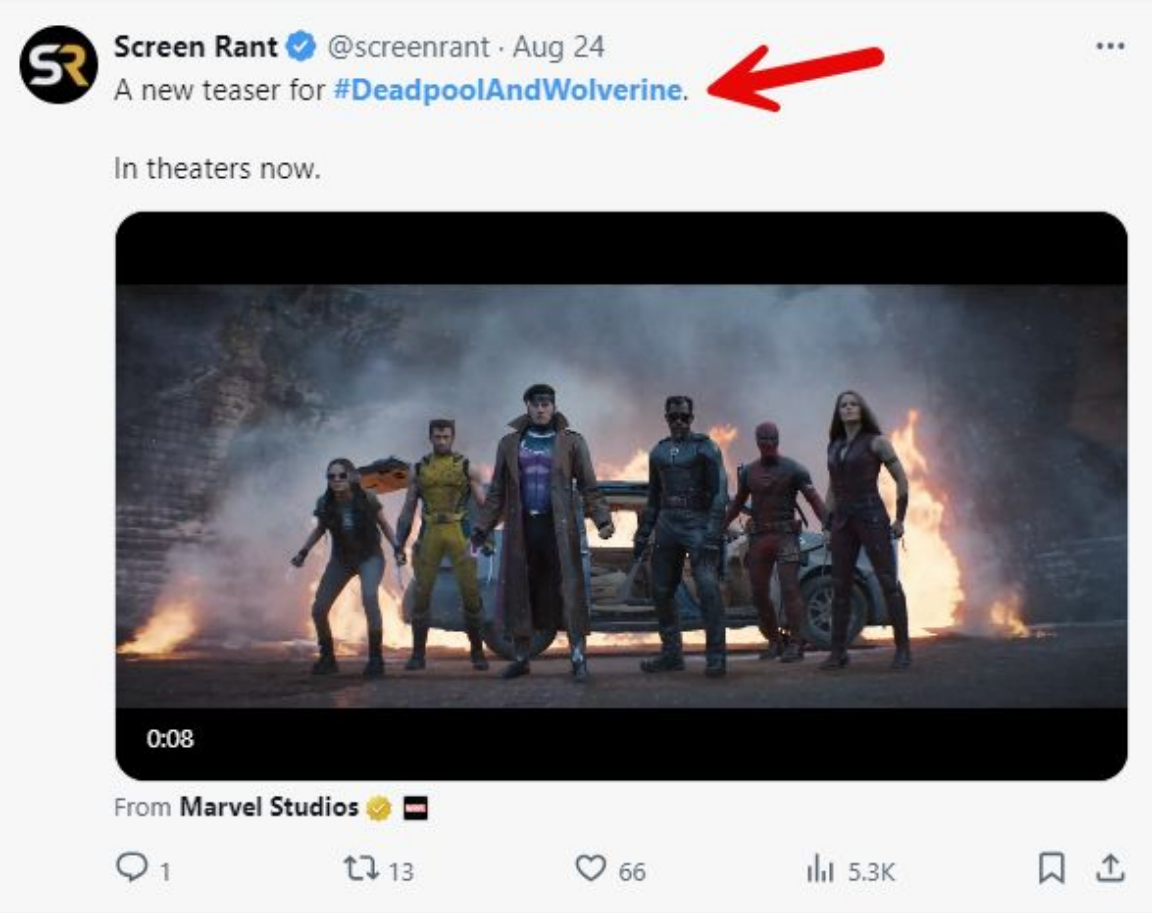
Operators tell the database exactly how to combine terms:

- Synonyms are combined with **OR**
- Different Concepts/Sets are combined with **AND**

(older adult* **OR** geriatric* **OR** elderly) **AND** (influenza vaccin* **OR** flu vaccin* **OR** flu shot*) **AND** (pneumonia* **OR** lung inflammation* **OR** respiratory tract infection*)

Before Going to MEDLINE...

Subject Headings!

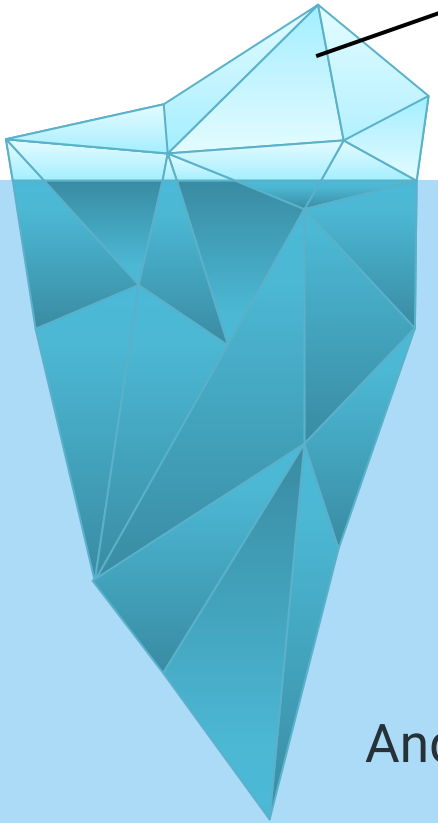


# ▲	Searches	Results
1	older adult*.mp.	138351
2	exp "Aged, 80 and over"/ or exp Aged/	3556544
3	geriatric*.mp.	126265
4	elderly.mp.	321568
5	1 or 2 or 3 or 4	3702996
6	exp Influenza Vaccines/ or influenza vaccin*.mp.	34616
7	flu vaccin*.mp.	2060
8	flu shot*.mp.	448
9	6 or 7 or 8	35436
10	pneumonia*.mp. or exp Pneumonia/	535104
11	lung inflammation*.mp.	9693
12	respiratory tract infection*.mp.	61132
13	10 or 11 or 12	587969
14	5 and 9 and 13	1329

MEDLINE Search Tips

- Search keywords one at a time, line by line
- Include subject headings where relevant, “tags”
  - Use Scope Notes to find more keywords
- .mp. = Keyword search, machine reading “many places” of the record
- .ti. = Search only in the **title** of the article
- Save your search!

MEDLINE



Pubmed

Embase

CINAHL

Web of Science

Scopus

Interdisciplinary database.

Strength in the biomedical literature.

And others…

Diagram featured by poweredtemplate.com

Scopus

Documents | Authors | Researcher Discovery *Pilot* | Affiliations

Search within
Article title, Abstract, Keywords

Search documents *
"older adult*" OR geriatric* OR elderly

AND

Search within
Article title, Abstract, Keywords

Search documents
"influenza vaccin*" OR "flu vaccin*" OR "flu shot*"

AND

Search within
Article title, Abstract, Keywords

Search documents
pneumonia* OR "lung inflammation*" OR "respiratory tract infection*"

+ Add search field | Add date range | Advanced document search >

Scopus

Documents | Beta Preprints | Patents | Secondary documents | Research data

1,418 documents found

Analyze results

All | Export | Download | Citation overview | ••• More | Show all abstracts | Sort by Date (newest)

Date (newest)
Date (oldest)
Cited by (highest)
Cited by (lowest)
Relevance
First Author (A-Z)
First Author (Z-A)
Source Title (A-Z)
Source Title (Z-A)

	Document title	Authors	Source		Citations
1	Article **Supporting vaccine (co)-administration decisions: Development and validation of a tool for assessing the risk of severe outcomes due to lower respiratory tract infections** Show abstract | Get It @ UAlberta | Related documents	Lapi, F., Domnich, A., Marconi, E., ... Icardi, G., Cricelli, C.	Respiratory M 232, 107761		0
2	Review **Infectious Disease Updates for Primary Care** Get It @ UAlberta | Related documents	McCulloch, D.J., Pottinger, P.S.	Medical Clinics of North America , 108(5), pp. 965–979	2024	0
3	Article • *Open access* **Changes in vaccination uptake against pneumococcal disease, influenza, and coronavirus disease 2019 (COVID-19) before and after a Head and Neck cancer diagnosis**	Eiberg, M.F., Rezahosseini, O., Bukan, K.B., ... Lindegaard, B., Harboe, Z.B.	Vaccine, 42(20), 125972	2024	0

Citation Managers

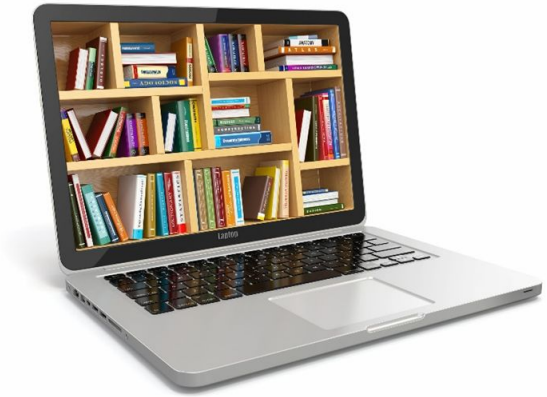
Keeping Track of your Literature

Image source: rawpixel.com

Benefits of Reference Managers

A

Collect & Organize References



B

Compile & Create Bibliographies

C

Export Directly from Databases

D

Share & Collaborate with Colleagues

maksym yemelyanov © 123RF.com

Choosing a Reference Manager

	EndNote 20	EndNote Basic	Mendeley	Zotero
Best features	Can store 10,000+ references and PDFs Deduplicates large numbers of references Many reference types (helpful for accurate citation) Highly customizable Ability to work offline	Free Cloud-based Many reference types (helpful for accurate citation)	Free (up to 2GB of online storage) User-friendly interface Ability to work offline	Free (up to 300 MB online storage) Open source User-friendly interface Imports accurate metadata for a wide variety of source types Ability to work offline Integration with multiple word processors
Drawbacks	Price (~$140) License tied to one device Steeper learning curve than other options No Google Docs integration (only MS Word and LibreOffice)	Limited storage capacity Limited citation styles and no custom style editing No PDF annotation No Google Docs integration (only MS Word and LibreOffice)	Small number of reference types Limited group sharing for free accounts No Google Docs integration (only MS Word)	Limited free cloud-based storage Works best with one primary workstation

Source: UAL, 2023

Further Questions? Ask us!

Janice Kung, MLIS

UNIVERSITY OF ALBERTA

Contact:

janice.kung@ualberta.ca

Deanna Townsend, MLIS

Alberta Health Services

Contact:

Deanna.Townsend@albertahealthservices.ca

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