



# Literature Review

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# Literature review

- What it is
- **Scientific account** of what **has** already been **published** on a specific topic
- What it is not
- Description or summary of all published information



# Literature reviews must....

1. Be organised around a **specific research question/** topic
2. **Synthesize** information into a summary of what is and is not known
3. Identify areas of **uncertainty/ controversy**
4. **Create questions** that need further research



# Literature review

- Involves two processes
  - 1. Searching for information
  - 2. Critically appraising the literature



# Literature Search using PubMed



# Contents

- Aim
- Systematic approach to searching
- How to use PubMed
- What not to do



# Aim

- Time saving
  - Restrict absolute number titles
  - Increase number relevant titles
- Reduce **Numbers Needed to Read**



# PubMed: What is it?

- **PubMed** is a **free** database accessing the MEDLINE database of citations, abstracts and some full text articles on life sciences and biomedical topics.
- <http://www.nlm.nih.gov/services/pubmed.html>





# PubMed: What is in it?

- As of 8 March 2012 ~ over 25 million citations for biomedical literature
  - from [MEDLINE](#), life science journals, and online books.
- As of November 2011, 5,600 in Medline
- Different languages []



# Systematic approach to searching

What to do and what NOT to do



# Search strategy in PubMed

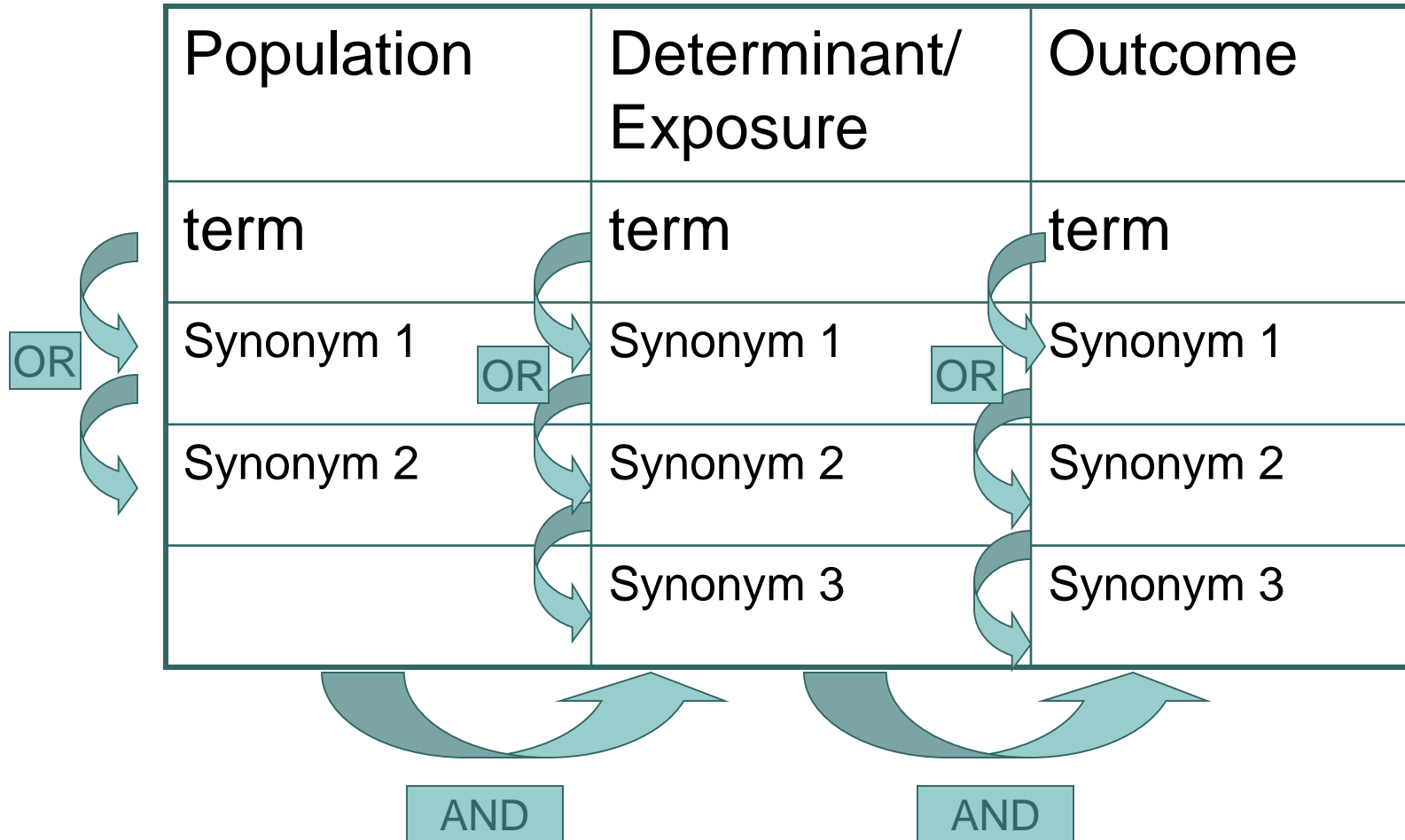
- Use knowledge, logic and creativity
- Start with good Research Question
  - Population
  - Determinant/ Exposure
  - Outcome
- Have several terms & synonyms for all
  - Be aware: UK / US spelling



# Search strategy

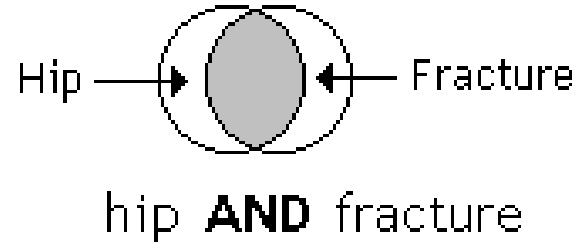
- Search #1: Population **OR** synonyms
- Search #2: Determinant **OR** synonyms
- Search #3: Outcome **OR** synonyms
  
- Search #4: Combine #1, #2 and #3
  - Population (#1) **AND** Determinant (#2)  
**AND** Outcome (#3)

# Basic Search Scheme

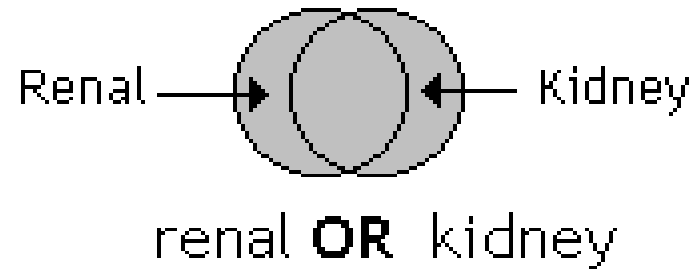


# Boolean operators

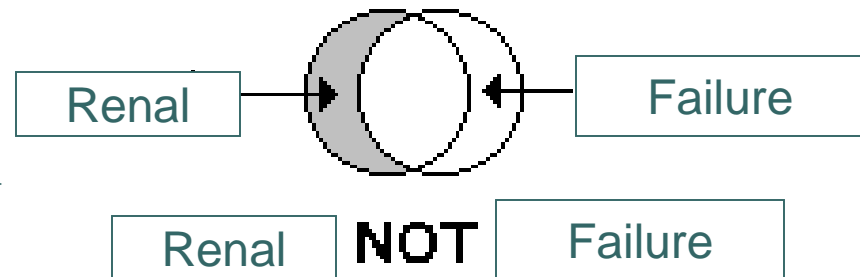
○ AND



○ OR



○ NOT





# How to search in PubMed?

- Use 'Title/ Abstract' in search builder, under Advanced Search tab in Pubmed
- <http://www.ncbi.nlm.nih.gov/pubmed>

PubMed

Search

Advanced

Help



**PubMed**  
PubMed comprises more than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

PubMed COMMONS



**Featured comment - Sep 21**  
Relevance of space? Author T Brinker notes predominant view of perivascular space in brain & emerging alternatives.  
[1.usa.gov/1o5R99R](http://1.usa.gov/1o5R99R)

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More Resources

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
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## PubMed Advanced Search Builder

 [Tutorial](#)

Use the builder below to create your search

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### Builder

All Fields ▾



[Show index list](#)

AND ▾

All Fields ▾



[Show index list](#)

[Search](#) or [Add to history](#)

### History

There is no recent history



# Research Question

- Does **renal impairment** increase **mortality** risk in **Type 2 Diabetes Mellitus**?
- Population: Type 2 DM
- Determinant: Renal impairment
- Outcome: Mortality



# Example

Population		
Type 2 Diabetes		
Type 2 diabetics		
Non insulin dependent diabetes		

OR



### PubMed Advanced Search Builder

YouTube Tutorial

History deleted.

((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract]

[Edit](#)

[Clear](#)

#### Builder

	Title/Abstract	type 2 diabetes	-	<a href="#">Show index list</a>
OR	Title/Abstract	type 2 diabetics	-	<a href="#">Show index list</a>
OR	Title/Abstract	non insulin dependent diabetes	- +	<a href="#">Show index list</a>

or [Add to history](#)

#### History

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Search	Add to builder	Query	Items found	Time
#1	<a href="#">Add</a>	Search ((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract]	<a href="#">56747</a>	03:31:08



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# Example

	Determinant/ Exposure	
	Renal	
OR	Kidney	
OR	Albuminuria	
OR	Glomerular	

The diagram illustrates a set of relationships between terms. On the left side of the table, there are three light blue boxes, each containing the text 'OR'. To the right of each 'OR' box is a curved arrow pointing towards the right. The top arrow points from the 'OR' box to the 'Renal' row. The middle arrow points from the 'OR' box to the 'Kidney' row. The bottom arrow points from the 'OR' box to the 'Glomerular' row. This suggests that 'OR' is a logical operator connecting the terms in the rows.

### PubMed Advanced Search Builder

Tutorial

(((renal[Title/Abstract]) OR kidney[Title/Abstract]) OR albuminuria[Title/Abstract]) OR glomerular[Title/Abstract]

[Edit](#)

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#### Builder

	Title/Abstract	renal	-	<a href="#">Show index list</a>
OR	Title/Abstract	kidney	-	<a href="#">Show index list</a>
OR	Title/Abstract	albuminuria	-	<a href="#">Show index list</a>
OR	Title/Abstract	glomerular	- +	<a href="#">Show index list</a>

or [Add to history](#)

#### History

[Clear history](#)

Search	Add to builder	Query	Items found	Time
#1	<a href="#">Add</a>	Search <b>((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract]</b>	<a href="#">56747</a>	03:31:08



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Search	Add to builder	Query	Items found	Time
<a href="#">#2</a>	<a href="#">Add</a>	Search (((renal[Title/Abstract]) OR kidney[Title/Abstract]) OR albuminuria[Title/Abstract]) OR glomerular[Title/Abstract]	<a href="#">585424</a>	04:03:22
<a href="#">#1</a>	<a href="#">Add</a>	Search ((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract]	<a href="#">56747</a>	03:31:08



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# Example

		Outcome
		Mortality
	OR	Death

## PubMed Advanced Search Builder

Tutorial

(mortality[Title/Abstract]) OR death[Title/Abstract]

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### Builder

mortality  [Show index list](#)  
  death  [Show index list](#)

or [Add to history](#)

### History

[Clear history](#)

Search	Add to builder	Query	Items found	Time
<a href="#">#2</a>	<a href="#">Add</a>	Search (((renal[Title/Abstract]) OR kidney[Title/Abstract]) OR albuminuria[Title/Abstract]) OR glomerular[Title/Abstract]	<a href="#">585424</a>	04:03:22
<a href="#">#1</a>	<a href="#">Add</a>	Search ((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract]	<a href="#">56747</a>	03:31:08



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Search	Add to builder	Query	Items found	Time
#3	<a href="#">Add</a>	Search (mortality[Title/Abstract] OR death[Title/Abstract])	<a href="#">717376</a>	04:05:25
#2	<a href="#">Add</a>	Search (((renal[Title/Abstract] OR kidney[Title/Abstract] OR albuminuria[Title/Abstract] OR glomerular[Title/Abstract])	<a href="#">585424</a>	04:03:22
#1	<a href="#">Add</a>	Search ((type 2 diabetes[Title/Abstract] OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract])	<a href="#">56747</a>	03:31:08



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# Example

Population	Determinant/ Exposure	Outcome
Type 2 Diabetes	Renal	Mortality
Type 2 diabetics	Kidney	Death
Non insulin dependent diabetes	Albuminuria/ Albumin	
	Glomerular	



AND



AND

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Tutorial

((#1) AND #2) AND #3

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#### Builder

Recent Query	#1	-
AND	Recent Query	#2
AND	Recent Query	#3

[Search](#) or [Add to history](#)

#### History

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Search	Add to builder	Query	Items found	Time
<a href="#">#3</a>	<a href="#">Add</a>	Search (mortality[Title/Abstract] OR death[Title/Abstract])	<a href="#">717376</a>	04:05:25
<a href="#">#2</a>	<a href="#">Add</a>	Search (((renal[Title/Abstract] OR kidney[Title/Abstract] OR albuminuria[Title/Abstract] OR glomerular[Title/Abstract])	<a href="#">585424</a>	04:03:22
<a href="#">#1</a>	<a href="#">Add</a>	Search ((type 2 diabetes[Title/Abstract] OR type 2 diabetics[Title/Abstract]) OR non insulin dependent diabetes[Title/Abstract])	<a href="#">56747</a>	03:31:08

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Send to: Filter your results:

Results: 1 to 20 of 851

<< First < Prev Page 1 of 43 Next > Last >>

All (851) Free Full Text (181) Review (293)

Renin Inhibitors and Cardiovascular and Renal Protection: An Endless Quest?

1. Azizi M, Ménard J. Cardiovasc Drugs Ther. 2012 Mar 6. [Epub ahead of print] PMID: 22392185 [PubMed - as supplied by publisher] Related citations

Glitazones in chronic kidney disease: Potential and concerns.

2. Bolignano D, Zoccali C. Nutr Metab Cardiovasc Dis. 2012 Feb 23. [Epub ahead of print] PMID: 22364889 [PubMed - as supplied by publisher] Related citations

Pharmacological management of type 2 diabetes mellitus in patients with ckd.

3. Hamilton CA. J Ren Care. 2012 Feb;38 Suppl 1:59-66. doi: 10.1111/j.1755-6886.2012.00275.x. PMID: 22348365 [PubMed - in process] Related citations

One Risk Assessment Tool for Cardiovascular Disease, Type 2 Diabetes, and Chronic Kidney Disease.

4. Alssema M, Newson RS, Bakker SJ, Stehouwer CD, Heymans MW, Nijpels G, Hillege HL, Hofman A, Witteman JC, Gansevoort RT, Dekker JM. Diabetes Care. 2012 Feb 14. [Epub ahead of print] PMID: 22338109 [PubMed - as supplied by publisher] Related citations

The role of serum uric acid in cardiovascular disease in Type 2 diabetic and non-diabetic subjects: A narrative review.

5. Zoppini G, Targher G, Bonora E. J Endocrinol Invest. 2011 Dec;34(11):881-6. PMID: 22322536 [PubMed - in process] Related citations

Chronic kidney disease and mortality risk among older patients with type 2 diabetes mellitus (ZODIAC-24).

6. Drion I, van Hateren KJ, Joosten H, Alkhalaf A, Groenier KH, Kleefstra N, Wetzels JF, Bilo HJ. Age Ageing. 2012 Feb 6. [Epub ahead of print]

Find related data Database: Select Find items

Search details ((#1) AND #2) AND #3 Search See more...

Recent activity Turn Off Clear (((type 2 diabetes[Title/Abstract]) OR type 2 diabetics[Title/A... (851) PubMed type 2[Title/Abstract] (90314) PubMed type 2 diabetes[Title/Abstract] (48435) PubMed ((((((cardiac[Title/Abstract]) OR coronary[Title/Abstract]) OR he... (16 PubMed (renal[Title/Abstract]) OR kidney[Title/Abstract] (570025) PubMed



# How to MeSH up your search

What NOT to do



# MeSH database

- Medical Subject Headings (MeSH)
- Systematic keyword catalogue
- Related to content
- 5 MeSH terms per record
  - Based on title and abstract words
- Partially manual process
  - Misclassification possible
    - MeSH = US spelling





# MeSH database

- Author keywords: NOT used
- Only available 3 – 6 months after publication
- Adjustment to terms regular
  - Eg. 2007
    - 22 terms removed
    - 494 terms added
    - 99 terms replaced

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**Builder**

- Affiliation
- ✓ All Fields
- Author
- Author - Corporate
- Author - First
- Author - Full
- Author - Identifier
- Author - Last
- Book
- Date - Completion
- Date - Create
- Date - Entrez
- Date - MeSH
- Date - Modification
- Date - Publication
- EC/RN Number
- Editor
- Filter
- Grant Number
- ISBN
- Investigator
- Investigator - Full
- Issue
- Journal
- Language
- Location ID
- MeSH Major Topic
- MeSH Subheading
- MeSH Terms
- Other Term
- Publication
- Pharmacological Action
- Publication Type
- Publisher

AND

Search

**History**

There is

Search field with minus icon and [Show index list](#)

Search field with minus and plus icons and [Show index list](#)

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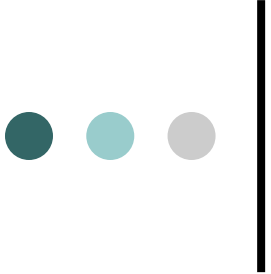
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# Nurses and other allied health researchers

- RQ: What is the level of knowledge and attitudes of nursing students toward tuberculosis?
- Reason: To understand and determine whether there is a need for improvement in nursing education regarding tuberculosis.



# Research Question

- What is the **level of knowledge and attitudes of nursing students toward tuberculosis?**
- Population: Nursing students
- Determinant: Level of knowledge and attitudes towards TB
- Outcome: None

# Example

Population		
Nurse	? Nurse student	
nursing		

OR



# Example

	Determinant/ Exposure	
	attitude	
OR	↕	
	knowledge	
OR	↕	
	behaviour	
OR	↕	
	Behavior	
OR	↕	
	Perception	
OR	↕	
	perceive	

# Example

	Determinant/ Exposure/ (Disease of interest)	
	tuberculosis	
OR	TB	

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Search	Add to builder	Query	Items found	Time
<a href="#">#4</a>	<a href="#">Add</a>	Search ((#1) AND #2) AND #3	<a href="#">63</a>	03:10:34
<a href="#">#3</a>	<a href="#">Add</a>	Search (tuberculosis[Title/Abstract] OR TB[Title/Abstract]	<a href="#">139991</a>	03:10:13
<a href="#">#2</a>	<a href="#">Add</a>	Search (((attitude[Title/Abstract] OR knowledge[Title/Abstract] OR behaviour[Title/Abstract] OR behavior[Title/Abstract] OR perception[Title/Abstract] OR perceive[Title/Abstract]	<a href="#">865699</a>	03:07:52
<a href="#">#1</a>	<a href="#">Add</a>	Search (nurse[Title/Abstract] OR nursing[Title/Abstract]	<a href="#">230611</a>	03:06:38

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- Free Full Text (12)
- Review (12)

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- [Cerebral malaria: What is known and what is on research.](#)
- 1. Gay F, Zougbedé S, N'dilimabaka N, Rebollo A, Mazier D, Moreno A.  
Rev Neurol (Paris). 2012 Mar 1. [Epub ahead of print]  
PMID: 22386676 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Do nurses have a different physical health profile? A systematic review of experimental and observational studies on nurses' physical health.](#)
- 2. Fronteira I, Ferrinho P.  
J Clin Nurs. 2011 Sep;20(17-18):2404-24. doi: 10.1111/j.1365-2702.2011.03721.x. Epub 2011 Jul 13. Review.  
PMID: 21752130 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Knowledge, attitudes and practices of private sector providers of tuberculosis care: a scoping review.](#)
- 3. Bell CA, Duncan G, Saini B.  
Int J Tuberc Lung Dis. 2011 Aug;15(8):1005-17. Review.  
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- 4. Bender A, Peter E, Wynn F, Andrews G, Pringle D.  
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- 5. Akin S, Gorak G, Unsar S, Mollaoglu M, Ozdilli K, Durna Z.  
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- 6. James S, Watson M.  
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- Example: effect of traffic-related air pollution on blood pressure

- Gather separate concepts:

- Blood pressure, hypertension

- Vehicle exhaust, diesel exhaust, vehicle emissions, traffic, etc.

- 

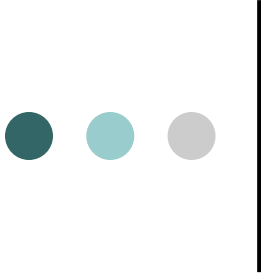
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# Practical session

- Think of a research question and prepare search terms
  - 5 minutes
- Go through PubMed search together



Thank you

Any Questions?