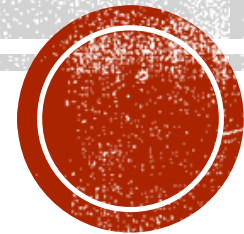


A 3D white figure holding a large magnifying glass and a blue folder, symbolizing research or investigation.

# RESEARCH PROCESS

Dr Sabina Aziz  
Department Of Public Health



# OBJECTIVES

- Explain the different steps in the research process
- Explain and differentiate between academic medical literature and popular literature
- Justify the sources of literature selected for research
- Use academic sources of medical literature to develop background for your research topic
- Use the literature to frame a research question for the research topic of interest



# The Research Process

## 1 Identify

A research topic and the information you need

## 2 Find

Information by using keywords & search strategies

## 3 Evaluate

The information you found and decide if you can use it

## 4 Organize & Use

The information you have in the argument you are making



# STEPS IN THE RESEARCH PROCESS

*A list of ten steps*

**STEP 1: Select a research topic or area and conduct background reading and formulate your question**



**STEP 2: Get background information**



**STEP 3: Refine your search topic**



**STEP 4: Consider your resource options**



**STEP 5: Select the appropriate tool**



**STEP 6: Use the tool**



**STEP 7: Locate your materials**



**STEP 8: Analyse your materials**



**STEP 9: Organize and write**



**STEP 10: Compose your bibliography**



# REMEMBER.

The steps of any population health research project are:



All these steps are essential for an effective research process



How and  
where do you  
start ?

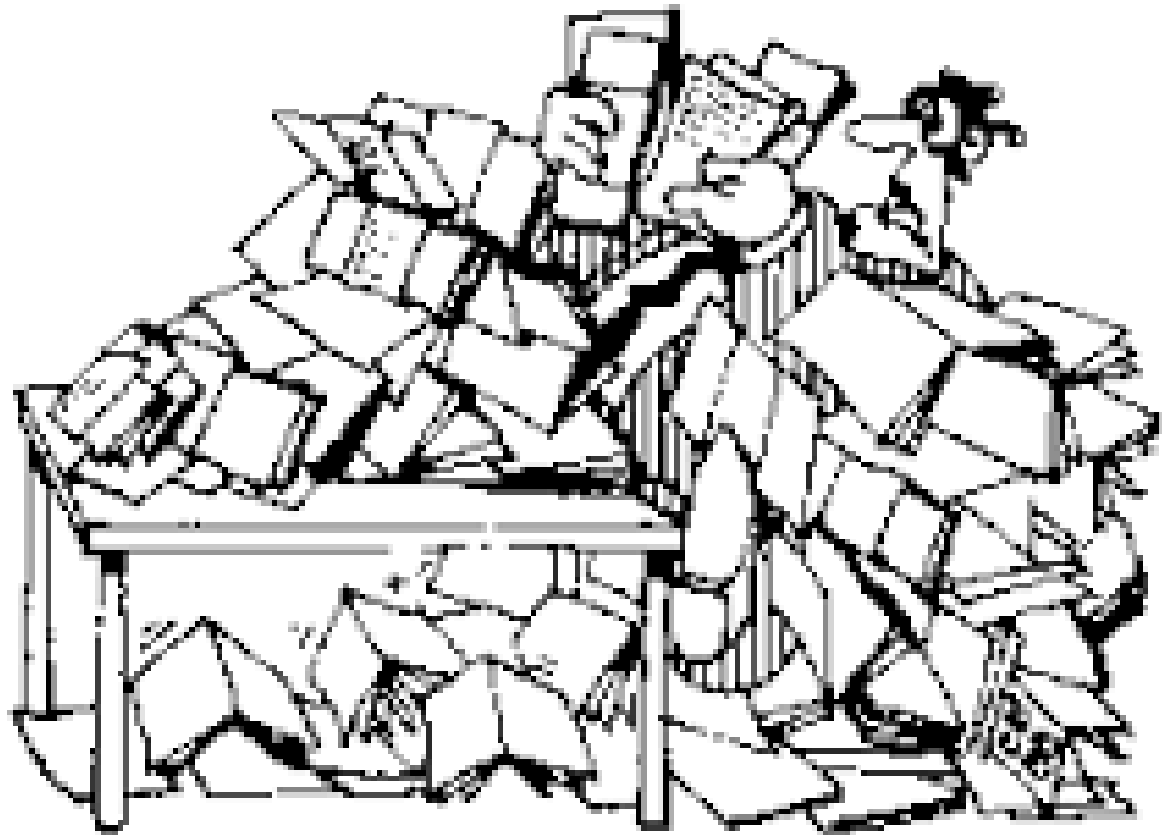


Like this ?





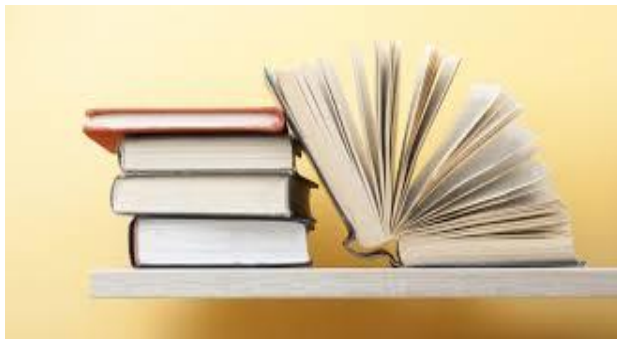
LIKE THIS  
?



# FROM WHERE YOU GET INFORMATION FROM?



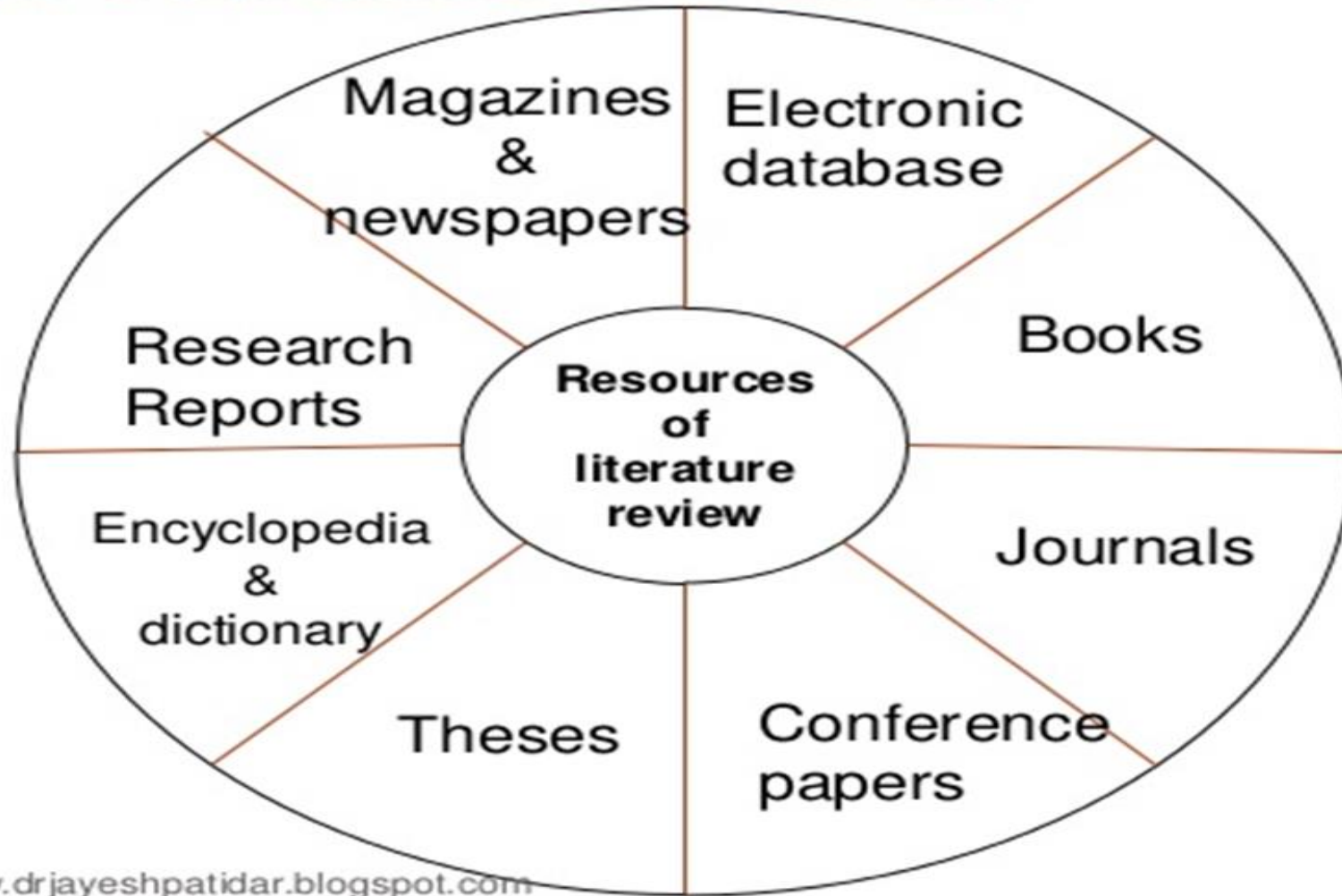
WHAT SOURCES?????



Magazine/  
Journal



# The main sources from where literature can be searched are as ...



[www.drjayeshpatidar.blogspot.com](http://www.drjayeshpatidar.blogspot.com)





**(Original) Research Article**  
e.g. empirical study

**Review Article**  
e.g. literature review, systematic review

**Theoretical Article**

**Academic/Scholarly Sources**

**Book Review**

**Editorial**

**Popular Sources**

**General Interest**

**Trade Professional**

**Sensational**

BIG range



# How and where do you begin ?

Lets Review by applying this process to a problem



# Problem

Let's say you need some research resources for a paper you're writing for a class. You have a general topic – **diabetes** – and you know you need resources, but you aren't sure how to get started.



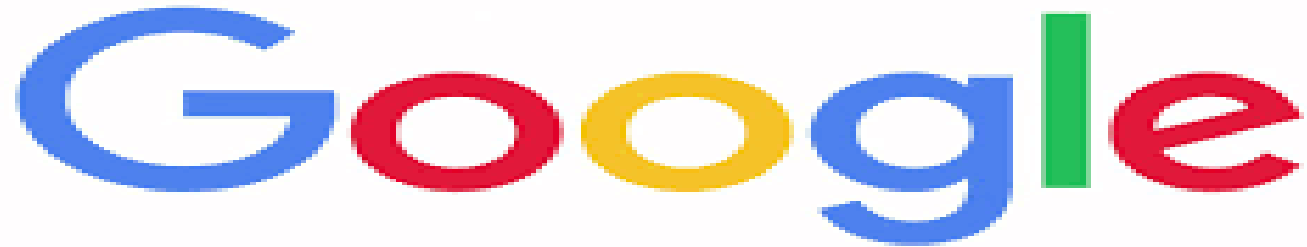


WHERE DO YOU FIND LITERATURE ?



# Research process

Your impulse would be to start with the **Internet**

The Google logo is displayed in its characteristic multi-colored font: 'G' is blue, the first 'o' is red, the second 'o' is yellow, 'g' is blue, 'l' is green, and 'e' is red.



# Research Process

**but first consider what you need to find:**

*quality, credible resources  
about or related to diabetes*



- Use guided keyword searching to find materials by topic or subject.
- Print or write down the citation (author, title, etc.) and the location information



# SEARCH ENGINES

- **FIND ADDITIONAL  
INTERNET RESOURCES**

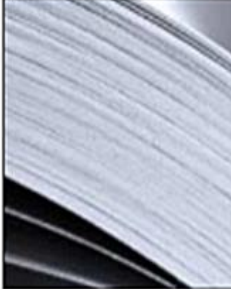
- [Google](#) and its  
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- [Google Scholar](#),
- [Google Books](#),
- [Google News](#),
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<a href="#">PubMed Tutorials</a>	<a href="#">Clinical Queries</a>	<a href="#">E-Utilities (API)</a>
<a href="#">New and Noteworthy</a>	<a href="#">Topic-Specific Queries</a>	<a href="#">LinkOut</a>



# Where to start when you need information

- A quick review of a topic
  - UpToDate
  - Emedicine
- Drugs
  - Micromedex                      MDConsult
  - UpToDate                      Drugs@FDA.gov
- Extensive review
  - Cochrane Library
- **Everything else**
  - **Start with PubMed/Embase**

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# REFERENCES

- 1.Hart, C. (1998) *Doing a Literature Review*. London: SAGE
- 2.Research methodology and basic biostatistics by Saira Afzal
- 3.Ridley, D. (2008) *The Literature Review: A Step-by-Step Guide for Students*. London: SAGE



# THANK YOU

Thank you for listening. Any questions?

