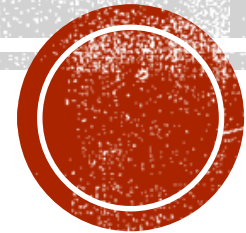




RESEARCH PROCESS

Dr Sabina Aziz
Department Of Public Health
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OBJECTIVES

- Define research process
- Differentiate between the different sources of literature
- Differentiate between academic medical literature and popular literature
- Justify the sources of literature selected for research
- Discuss and explain how to start with research.
- Explain different steps in research process.



WHAT IS RESEARCH PROCESS?



Series of various actions which are necessary for effective research work .



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



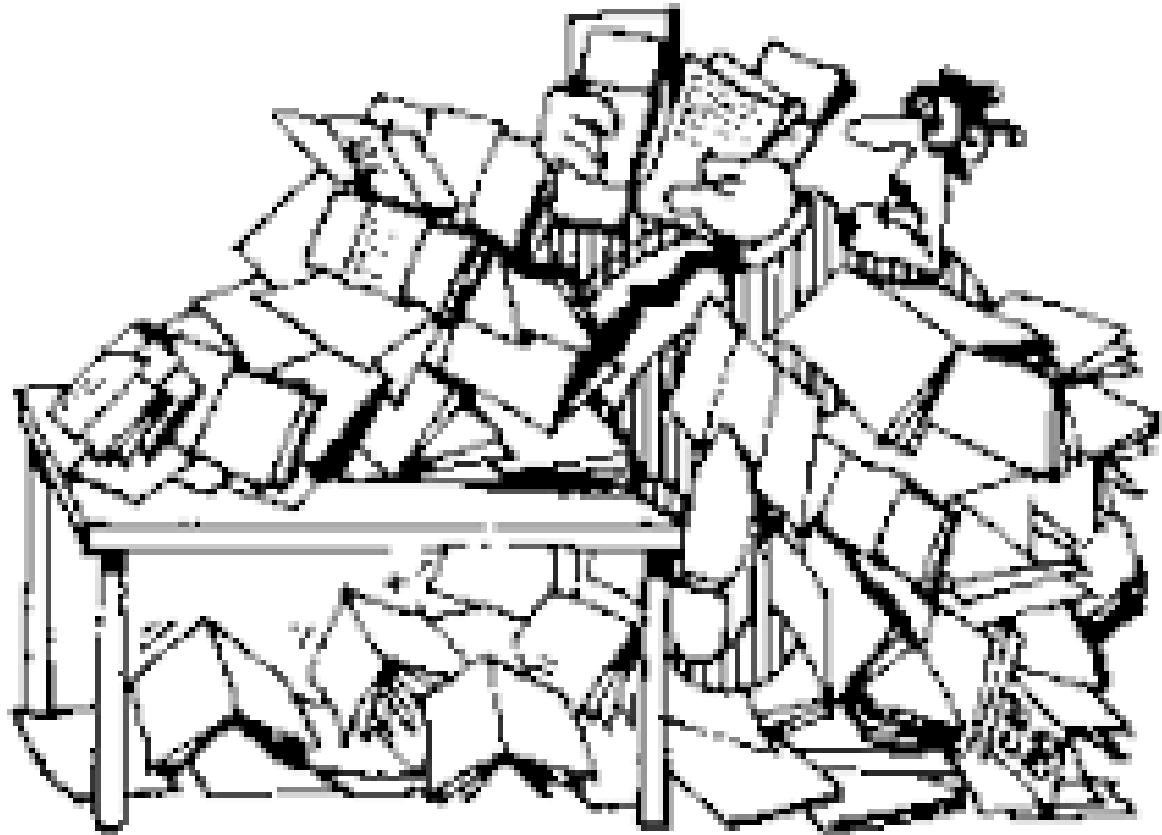
How and
where do you
start ?



Like this ?



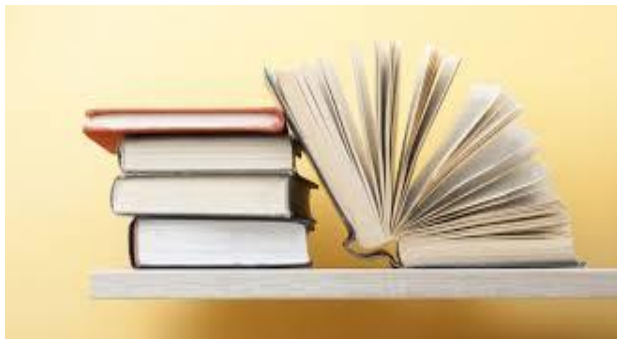
LIKE THIS
?



FROM WHERE YOU GET INFORMATION FROM?



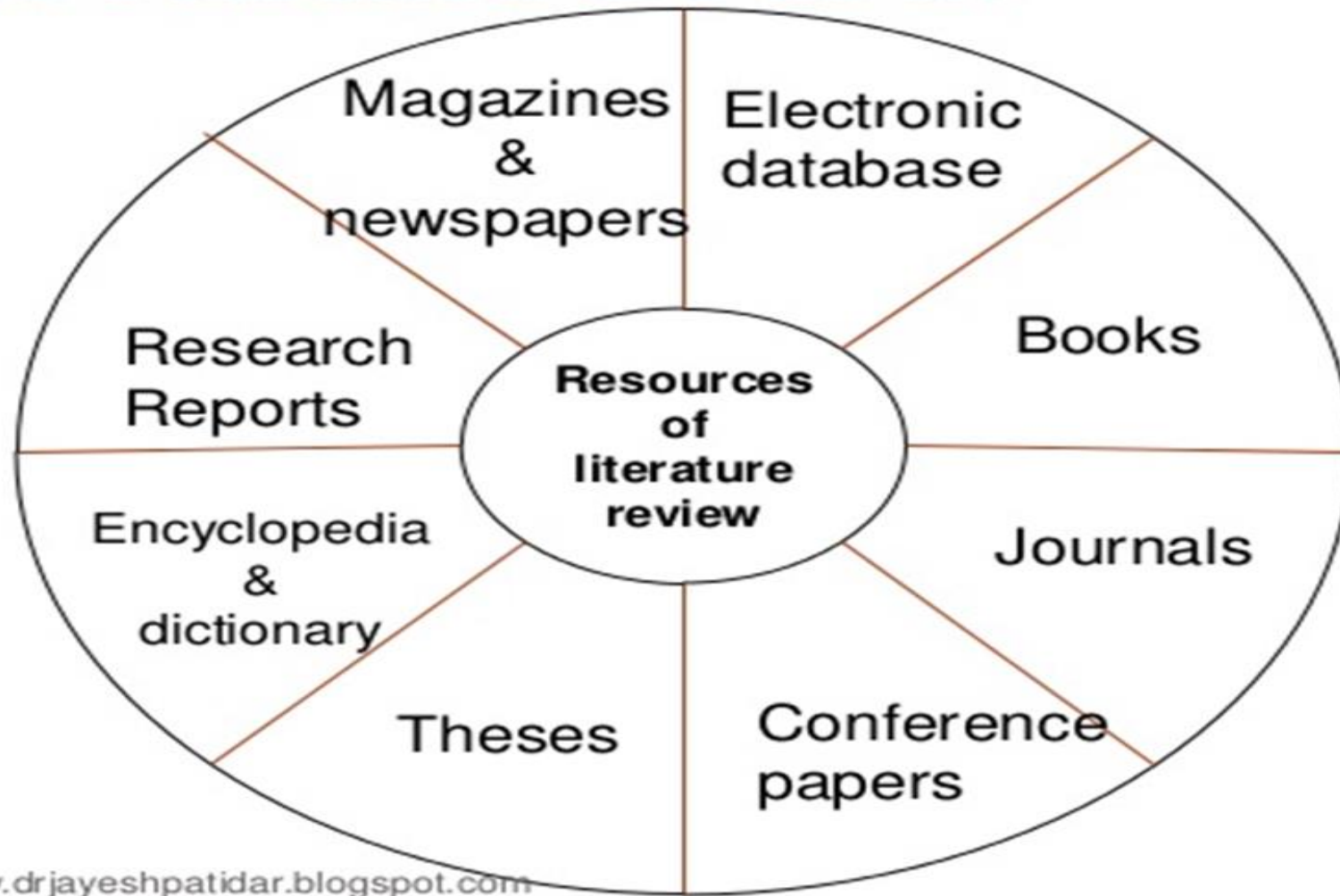
WHAT SOURCES?????



Magazine/
Journal



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



Sources of Literature

Primary

- Reports
- Theses
- E-mail, Memos, minutes
- Conference proceedings
- Company reports
- Unpublished manuscript sources
- Some government publications such as white paper etc.

Secondary

- Books
- Journals
- Newspapers
- Some government Publications

Tertiary

- Indexes
- Abstracts
- Catalogues
- Encyclopedia
- Dictionaries
- Bibliographies
- Citation Indexes



(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 ?

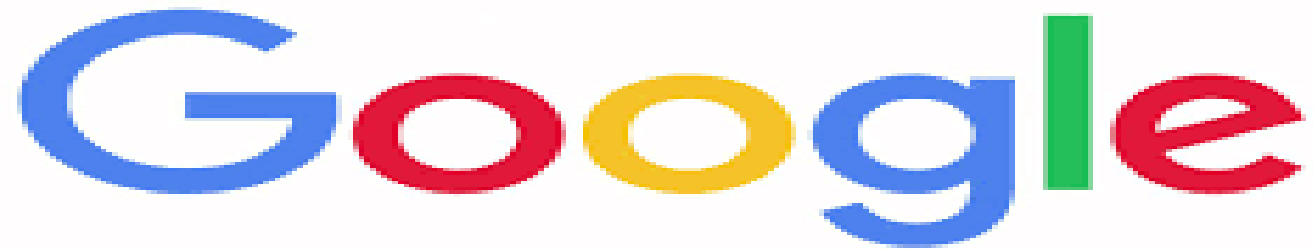
Where to **Begin?** At the **Beginning!**

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 ?

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

The Google logo is displayed in its characteristic multi-colored font. The letters are: 'G' in blue, 'o' in red, 'o' in yellow, 'g' in blue, 'l' in green, and 'e' in red. The logo is centered on a white background within a light gray rectangular frame.

Google



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
branches,
- [Google Scholar](#),
- [Google Books](#),
- [Google News](#),
- [YouTube](#)





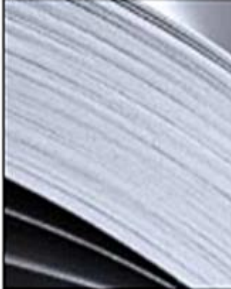
Articles include patents Case law

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PubMed FAQs	Batch Citation Matcher	Clinical Trials
PubMed Tutorials	Clinical Queries	E-Utilities (API)
New and Noteworthy	Topic-Specific Queries	LinkOut



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**

	National Library of Medicine Index of all Medical Literature FREE
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	Full Text Journals Online Password
	Password required
	Full Text books and journals Register for access Drug Database
	Intranet Access Only
	INSTANT ACCESS TO THE MINDS OF MEDICINE

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:

Identify study question

Select study approach

Design study & collect data

Analyze data

Report findings

All these steps are essential for an effective research process



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?

