

An Introduction to PubMed

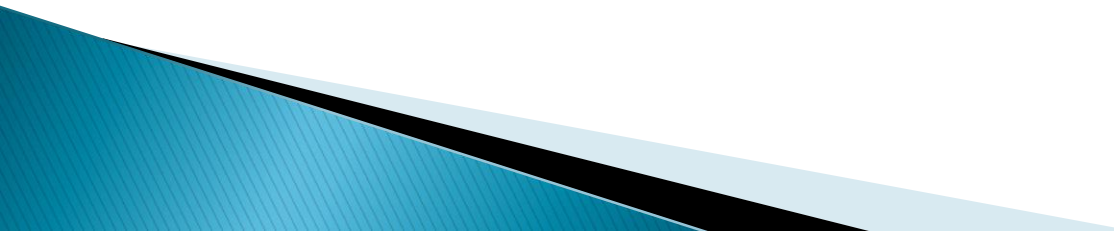
By: Dr. Alireza Khatony

Clinical Research Development Center
Of Imam Reza Hospital
2021

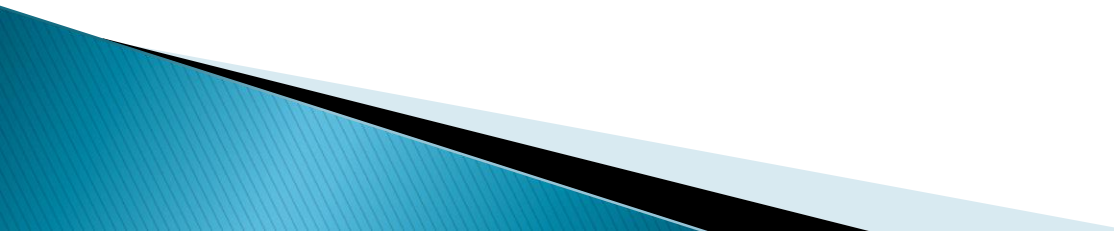
PubMed coverage

- ▶ MEDLINE
- ▶ PubMed Central (PMC)
 - Full text
 - Preprint
- ▶ NCBI Bookshelf
 - The National Center for Biotechnology Information

MEDLINE

- ▶ MEDLINE contains citations to journal articles in the **life sciences** with a concentration on **biomedicine**.
 - ▶ The MEDLINE **database** contains citations from the late 1940s to the present, with some older material.
 - ▶ New citations from MEDLINE journals are received electronically from publishers and appear in PubMed daily.
- 

PubMed Central (PMC)

- ▶ PubMed Central (PMC) is a **full text archive** that includes articles from journals reviewed and selected by NLM for archiving (current and historical), as well as individual articles and **preprints** collected for archiving in compliance with funder policies
- 

Preprints

- ▶ As of June 2020, PubMed Central (PMC) includes preprints that report NIH-funded research results. Citations to these preprints are deposited in PubMed.

Preprints

EXAMPLE

To search for preprints in PubMed, include preprint[filter] in your query.

`covid-19 AND preprint[pt]`

EXAMPLE

To exclude preprints from your search results in PubMed, use the Boolean operator NOT.

`covid-19 NOT preprint[pt]`

NCBI Bookshelf

- ▶ Bookshelf is a full text archive of **books, reports, databases,** and other documents related to biomedical, health, and life sciences.

Introduction to MEDLINE

- MEDLINE is the bibliographic database of the **National Library of Medicine**
- This database contains over 16 million citations to articles that are found in journals covering **medicine, allied health sciences, and preclinical sciences**

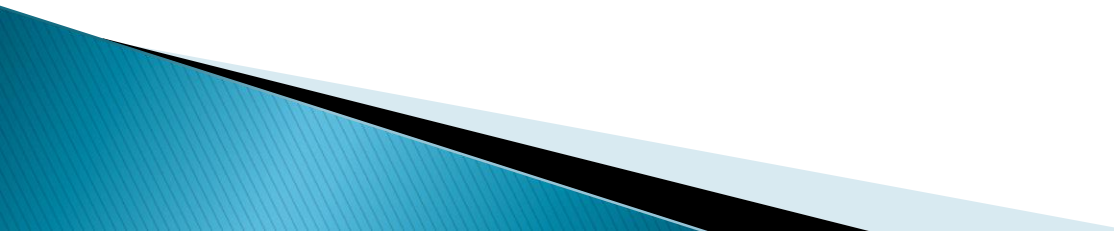
Introduction to MEDLINE

- Citations in MEDLINE are drawn from more than **5000 journals**
- This is the **largest database** of its kind

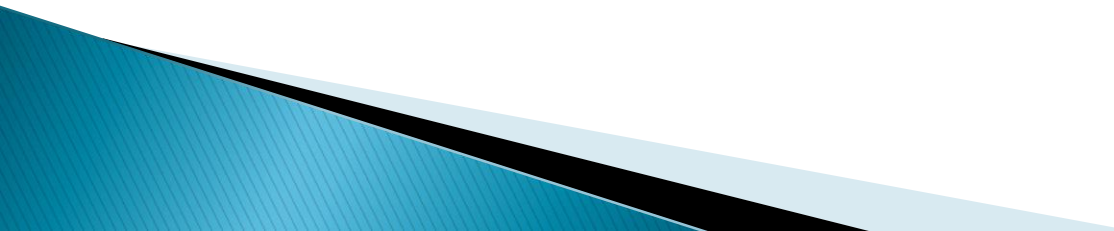
Introduction to PubMed

- PubMed is the publicly available version of MEDLINE that is provided free of charge by the National Library of Medicine at <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>.pubMed
- [PubMed.gov](http://pubmed.gov)

Why should you use PubMed?

- ▶ PubMed contains all citations from the medical literature back to 1953
 - ▶ PubMed is updated daily directly from publishers
 - ▶ PubMed links directly to the home pages of the journals
- 

What is PubMed?

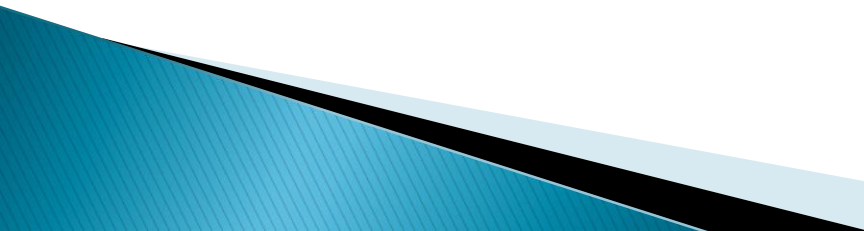
- ▶ free meta search engine
 - ▶ access to the bibliographic information source MEDLINE
 - ▶ daily update
 - ▶ increase of 500.000 records a year
 - ▶ contains approximately **19 million article citations from 5.000 journals published worldwide**
 - ▶ service of the United States National Library of Medicine (NLM) and the National Institutes of Health (NIH)
- 

Why should you use PubMed?

- ▶ **Over 4,600 medical journals are indexed yearly**
- ▶ **Newspapers, life science journals, nursing journals, and medical management journals, and others are all covered in PubMed.**

What is PubMed?

▶ Covers

- Medicine
 - Nursing
 - Dentistry
 - Veterinary medicine
 - Healthcare systems
 - Preclinical sciences
- 

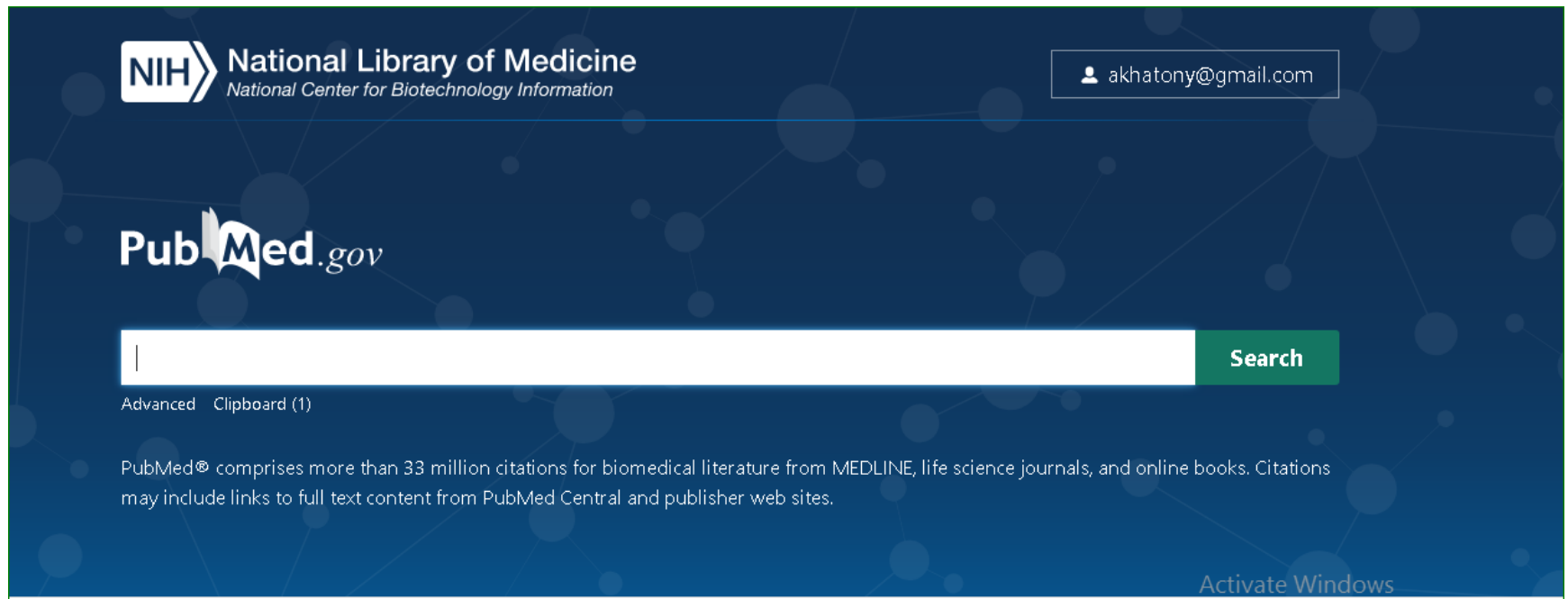
Where to start when you need information?

- Start with PubMed - all the time

Outlines

- ▶ سرچ ساده
- ▶ سرچ پیشرفته
- ▶ سرچ از طریق مش
- ▶ اصول سرچ (فیلترها)
- ▶ مدیریت نتایج (ذخیره، ارسال برای سایرین)

آشنایی کلی با قسمت‌های مختلف پایمدی Pubmed.gov



The screenshot shows the PubMed.gov website interface. At the top left is the NIH logo and the text "National Library of Medicine National Center for Biotechnology Information". At the top right is a user profile icon and the email address "akhatony@gmail.com". The main heading is "PubMed.gov". Below it is a search bar with a "Search" button. Under the search bar are links for "Advanced" and "Clipboard (1)". A paragraph of text describes the database: "PubMed® comprises more than 33 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." At the bottom right, there is a watermark that says "Activate Windows".

NIH National Library of Medicine
National Center for Biotechnology Information

akhatony@gmail.com

PubMed.gov

Search

Advanced Clipboard (1)

PubMed® comprises more than 33 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.


Activate Windows

PubMed Advanced Search Builder



[User Guide](#)

Add terms to the query box



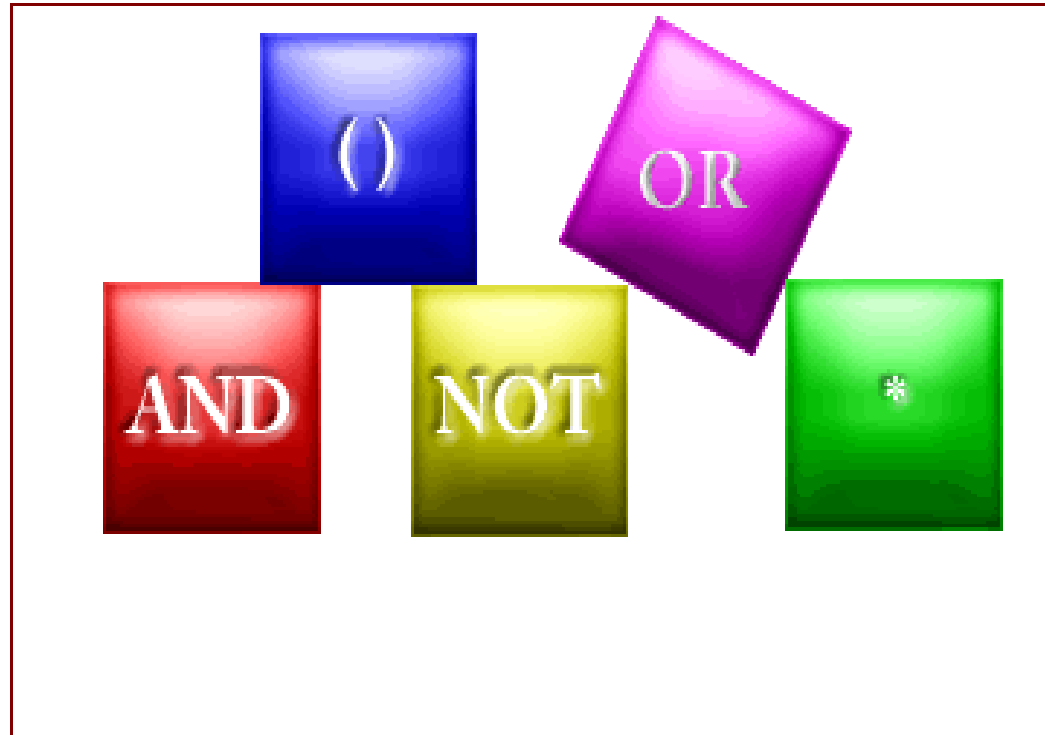


[Show Index](#)

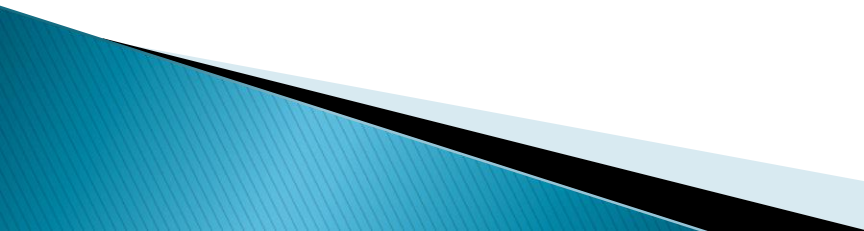
Query box

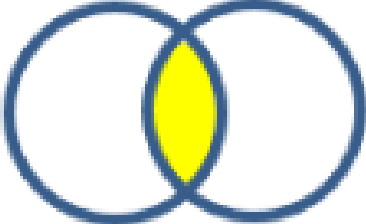
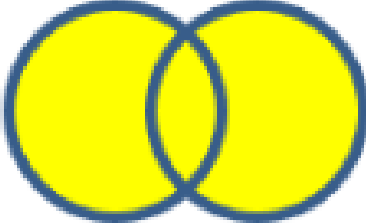
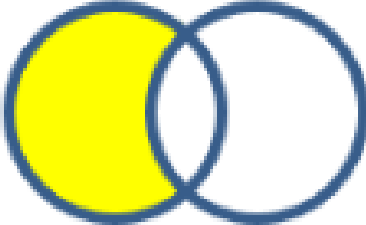


Building Blocks

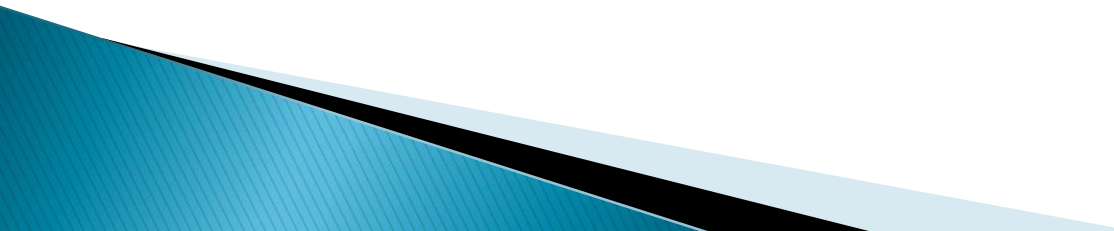


Building Blocks

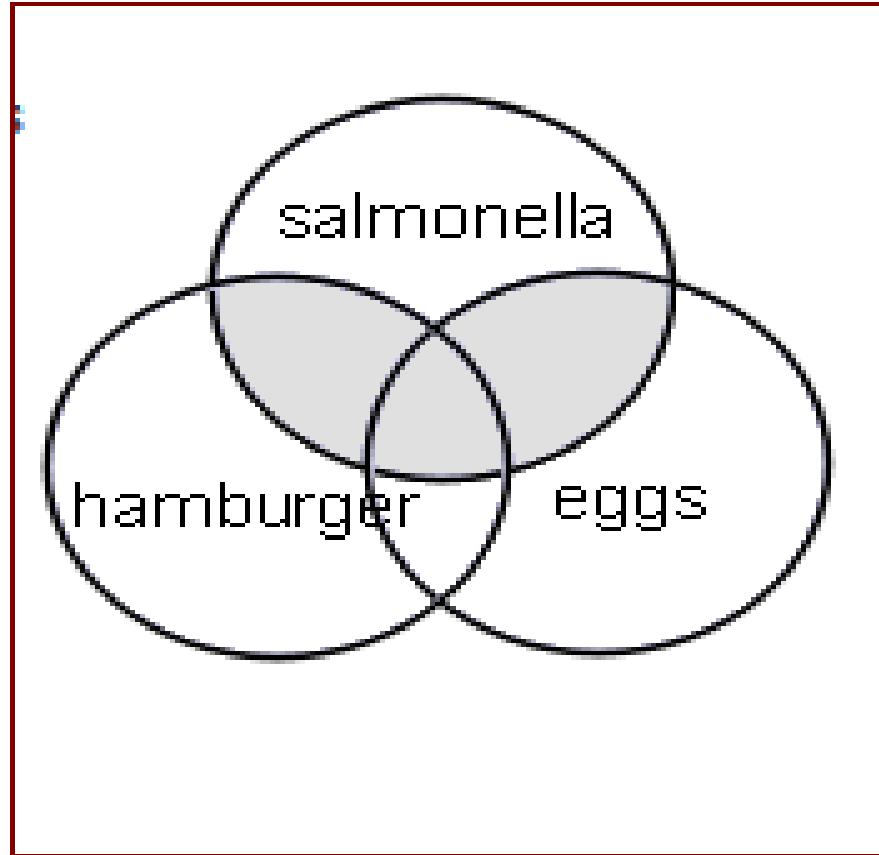
- ▶ The Boolean operators AND, OR, NOT can be used to combine search terms in PubMed.
 - ▶ In PubMed, Boolean operators **must be entered in uppercase letters.**
- 

| Concept | Search Examples | Results |
|------------|--|--|
| AND | politics AND media children AND poverty "civil war" AND Virginia |  Results will include both terms |
| OR | "law enforcement" OR police labor OR <u>labour</u> 60s OR sixties |  Results will include one or both terms |
| NOT | "civil war" NOT American Caribbean NOT Cuba therapy NOT physical |  Excludes results with the term following NOT |

Nesting

- ▶ This will retrieve records that contain the term salmonella, as well as one or both of the terms hamburger OR eggs.
 - ▶ salmonella AND (hamburger OR eggs)
- 

salmonella AND (hamburger OR eggs)



Search in PubMed

- ▶ Search for articles (usually abstracts)
 - By keyword
 - By author
 - By Journal
 - **specific citation**
 - **Author Journal Year**