

روش‌های جستجوی علمی

مریم ترکی هرچگانی

کارشناس کتابداری و اطلاع‌رسانی

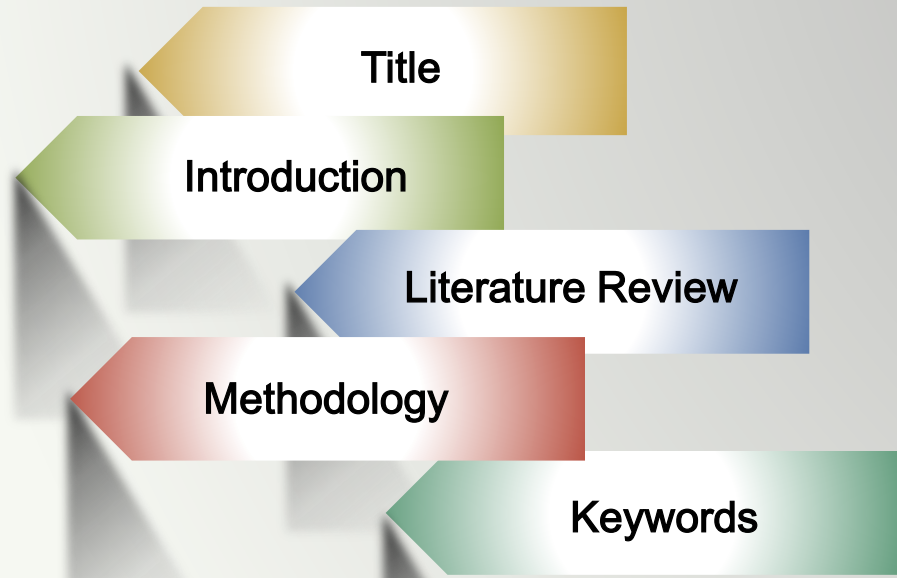
علوم پزشکی شهرکرد- بیمارستان آیت ا... کاشانی



some reasons for searching the medical literature

- to answer a specific patient case-related question (practice)
- to learn more about a medical topic (education)
- to determine current best practice (guideline)

to give the best possible care to patients using Evidence-Based Medicine (EBM)



Title

Introduction

Literature Review

Methodology

Keywords

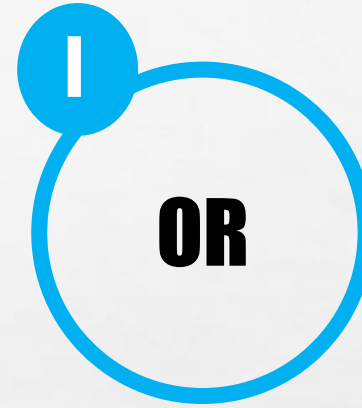
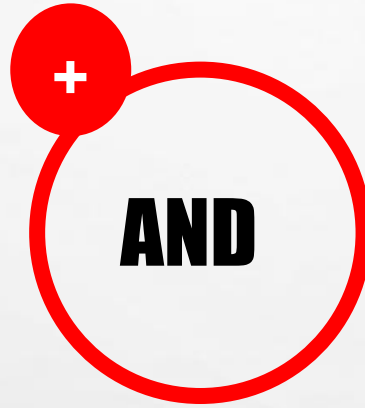
Techniques for Improve Searching

1. Ability to structure and parse a question
2. Knowledge of basic database structure
3. Use of Boolean Logic
4. Use of Field Searching
5. Use of Controlled Vocabulary
6. Specialty techniques (truncation, etc.)
7. Consistent step-by-step procedure

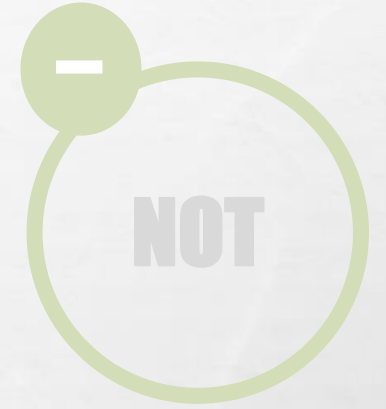
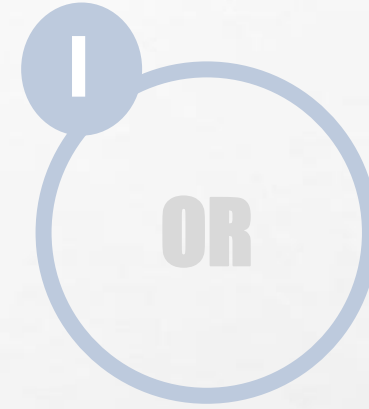
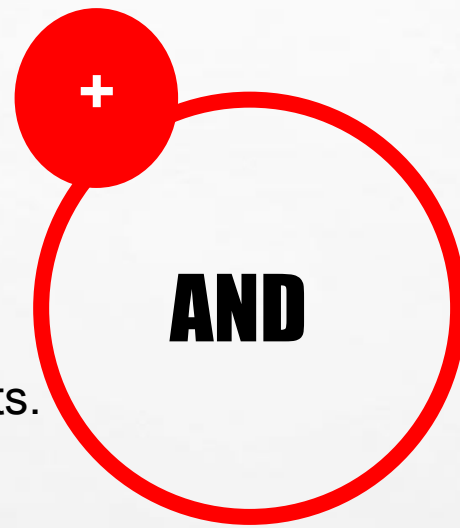


Keywords

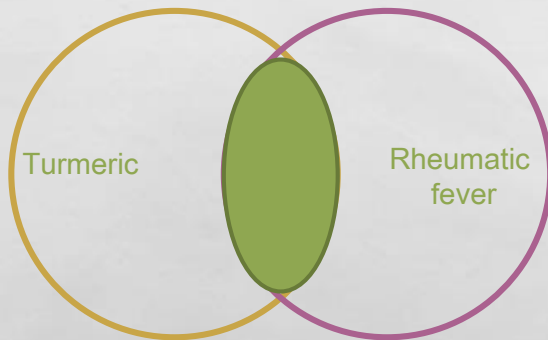
Boolean Operators



Both terms included in any results.

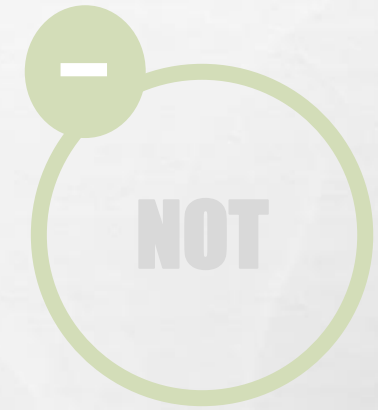
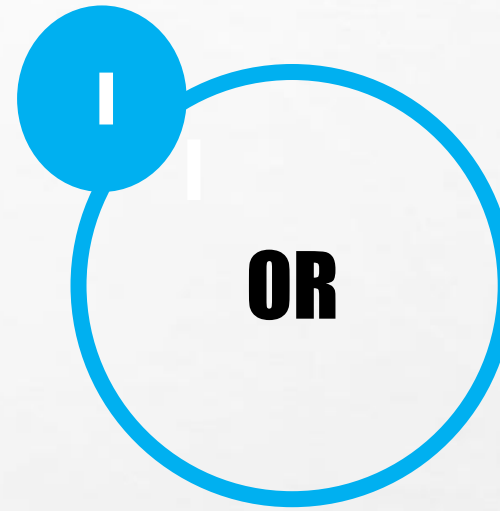
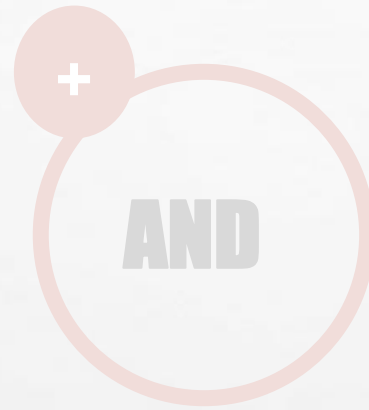


Turmeric **AND** Rheumatic fever

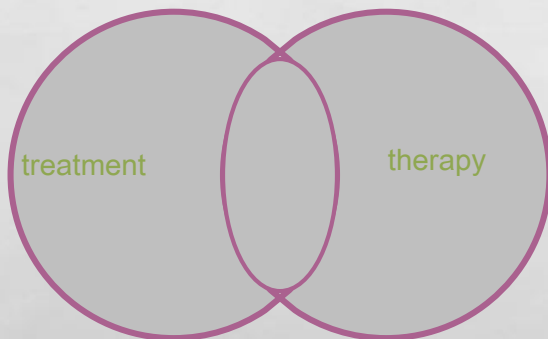


**Boolean
Operators**

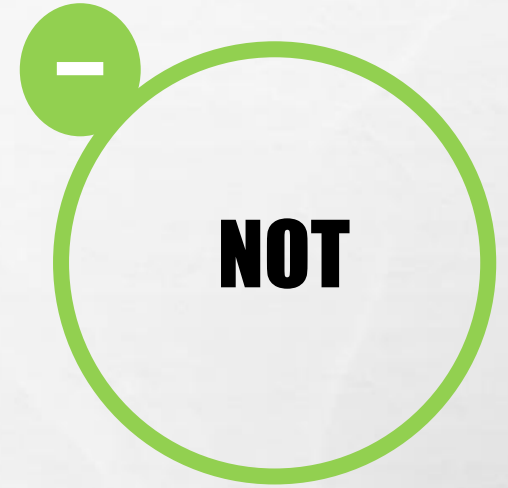
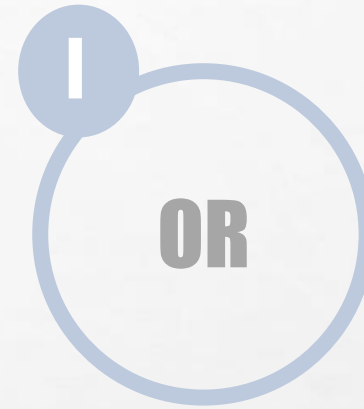
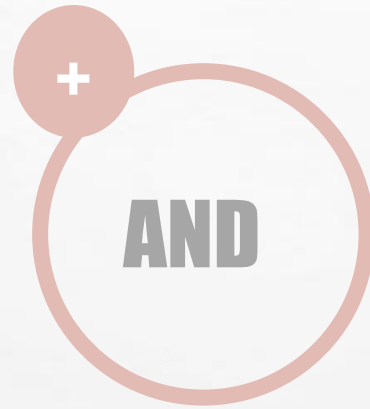
This will retrieve records that have either keyword. It is useful for **synonyms**.



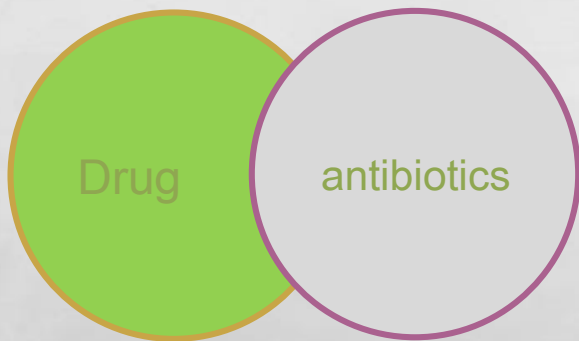
treatment **OR** therapy



**Boolean
Operators**



Excludes any results.
This will not retrieve records that unwanted keyword.



drug **NOT** antibiotics

**Boolean
Operators**

همپایه‌سازها

*

وجودتنه مشترک
در کلیدواژه

Pregnanc*

“ ”

یک کلیدواژه که
خود چند کلمه است.

“Rheumatic
fever”

()

چندین کلیدواژه با
رابط‌های مختلف

(influenza OR flu) AND
(vitamin C OR “ascorbic
acid”)

EXAMPLE

- (Faculty OR Teachers OR Professors)
- Diabetes NOT juvenile
- neoplasm AND (treatment OR therapy)
- • How many words could you think of for the idea of “cancer”?
- • Cancer, tumor, malignancy, neoplasm, sarcoma...

Creating a Boolean Search

QUESTION: Is Vitamin C helpful in treating the flu?

1. Identify concepts and list terms

Concept 1	Concept 2	Concept 3
Influenza	Vitamin C	Treatment
Influenza	Vitamin C	Treatment
Flu	Ascorbic acid	Therapy
		healing

Step 2

2. Make your OR statements, one per concept

- (influenza OR flu)
- (vitamin C OR ascorbic acid)
- (treatment OR therapy OR healing)

Steps 3 and 4

3. Put “AND” between each of the OR statements

(influenza OR flu) AND (vitamin C OR ascorbic acid) AND (treatment OR therapy OR management)

4. Consider any NOT statements you might want to add.

Note: NOT isn't used very often

جستجوی عمیق!؟

PIEO

جستجوی عمیق!؟

Patients
Population
Participant
Problem

PICO

جستجوی عمیق!؟

Intervention

Patients
Population
Participant
Problem

PICO

جستجوی عمیق!؟

Intervention

Patients
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Participant
Problem

PICO

Comaration
Comparator

جستجوی عمیق!؟

Intervention

Patients
Population
Participant
Problem

PICO

Comaration
Comparator

Outcome

PICO search

QUESTION: Is Vitamin C helpful in treating the flu?

P	I	C	O
Influenza	Vitamin C	-	Treatment
Flu	Ascorbic acid	-	Therapy
		-	healing

PICO search in Pubmed

- P= ("Human Influenzas"[tiab] OR (Influenzas[tiab] AND Human[tiab]) OR Influenza[tw] OR Influenzas[tw] OR "Human Flu"[tiab] OR (Flu[tiab] AND Human[tiab]) OR "Human Influenza"[tiab] OR "Influenza in Humans"[tiab] OR "Influenza in Human"[tiab] OR Grippe[tiab] OR flu[tw])
- I=((Acid[tiab] AND Ascorbic[tiab]) OR "L-Ascorbic Acid"[tiab] OR (Acid[tiab] AND "L-Ascorbic"[tiab]) OR "L Ascorbic Acid"[tiab] OR "Vitamin C"[tiab] OR Hybrin[tiab] OR Magnorbin[tiab] "Sodium Ascorbate"[tiab] OR (Ascorbate[tiab] AND Sodium[tiab]) OR ("Ascorbic Acid"[tiab] AND "Monosodium Salt"[tiab]) OR "Ferrous Ascorbate"[tiab] OR (Ascorbate[tiab] AND Ferrous[tiab]) OR "Magnesium Ascorbate"[tiab] OR (Ascorbate[tiab] AND Magnesium[tiab]) OR "Magnesium di-L-Ascorbate"[tiab] OR "Magnesium di L Ascorbate"[tiab] OR ("di-L-Ascorbate"[tiab] AND Magnesium[tiab]) OR "Magnesium Ascorbicum"[tiab])
- C=-

PICO search in Pubmed

- O=(Therapeutic[tiab] OR Therapy[tiab] OR Therapies[tiab] OR Treatment[tiab] OR healing[tw])
("Human Influenzas"[tiab] OR (Influenzas[tiab] AND Human[tiab]) OR Influenza[tw] OR Influenzas[tw] OR "Human Flu"[tiab] OR (Flu[tiab] AND Human[tiab]) OR "Human Influenza"[tiab] OR "Influenza in Humans"[tiab] OR "Influenza in Human"[tiab] OR Grippe[tiab] OR flu[tw]) AND ((Acid[tiab] AND Ascorbic[tiab]) OR "L-Ascorbic Acid"[tiab] OR (Acid[tiab] AND "L-Ascorbic"[tiab]) OR "L Ascorbic Acid"[tiab] OR "Vitamin C"[tiab] OR Hybrin[tiab] OR Magnorbin[tiab] OR "Sodium Ascorbate"[tiab] OR (Ascorbate[tiab] AND Sodium[tiab]) OR ("Ascorbic Acid"[tiab] AND "Monosodium Salt"[tiab]) OR "Ferrous Ascorbate"[tiab] OR (Ascorbate[tiab] AND Ferrous[tiab]) OR "Magnesium Ascorbate"[tiab] OR (Ascorbate[tiab] AND Magnesium[tiab]) OR "Magnesium di-L-Ascorbate"[tiab] OR "Magnesium di L Ascorbate"[tiab] OR ("di-L-Ascorbate"[tiab] AND Magnesium[tiab]) OR "Magnesium Ascorbicum"[tiab]) AND (Therapeutic[tiab] OR Therapy[tiab] OR Therapies[tiab] OR Treatment[tiab] OR healing[tw])

Search Process

- ✓ Determine synonym keywords
- ✓ Combination of words
- ✓ Search strategy design

امروزتان پر از مهر خدا

سپاس

