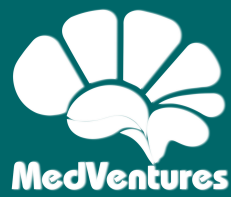




MASTERING THE SYSTEMATIC REVIEW DAY - 2 WORKSHOP



TODAYS TARGET

**DOWNLOAD AND COLLECT ALL
RELATED PAPERS WITH SEARCH
STRINGS.**

WHY SEARCH STRATEGY?

WHAT IS SEARCH STRINGS?

- 1. BOOLEAN LOGIC & SEARCH SYNTAX**
- 2. DATABASE-SPECIFIC SEARCH STRATEGIES**
- 3. LIVE SEARCH DEMO & GROUP ACTIVITY**
- 4. ZOTERO REFERENCE MANAGEMENT**
- 5. PRISMA FLOWCHART & TROUBLESHOOTING**

**("EPILEPSY"[MESH] OR "DRUG RESISTANT EPILEPSY"
[MESH] OR "REFRACTORY EPILEPSY"[TIAB])
AND
("CANNABIDIOL"[MESH] OR "CBD"[TIAB] OR "EPIDIOLEX"
[TIAB])
AND
("ANTICONVULSANTS"[MESH] OR "PLACEBO"[TIAB])
AND
("SEIZURES"[MESH] OR "SEIZURE FREQUENCY"[TIAB])
)
AND ("RANDOMIZED CONTROLLED TRIAL"[PT] OR
"CLINICAL TRIAL"[PT])**

BOOLEAN OPERATORS

1.1 BOOLEAN

BOOLEAN OPERATORS

AND

OR

NOT



Task:

EXAMPLE - COFFEE AND TEA

Operator	Function	Example	Result
AND	Narrows search	"Smoking AND Cholesterol"	Articles with both terms
OR	Broadens search	"Smoking OR Tobacco"	Articles with either term
NOT	Excludes term	"Obesity NOT Diabetes"	Articles with ‘Obesity’ but not ‘Diabetes’

12 TRUNCATION (*)

USE A SYMBOL (USUALLY *) TO SEARCH FOR VARIATIONS OF A WORD.

EXAMPLE: SMOK* → FINDS SMOKE, SMOKING, SMOKER, SMOKERS

 TASK:



1.3 - PHRASE SEARCHING (“ ”)

USE QUOTES TO FIND EXACT PHRASES.

EXAMPLE: "PHYSICAL ACTIVITY" VS PHYSICAL ACTIVITY (SEARCHES THE PHRASE AS A UNIT)



TASK:

1.4 - MESH TERMS (MEDICAL SUBJECT HEADINGS)

- USED MAINLY IN PUBMED TO STANDARDIZE TERMS.
- EXAMPLE: INSTEAD OF JUST SEARCHING "HEART ATTACK," USE THE MESH TERM: "MYOCARDIAL INFARCTION"[MESH]

1.5 FILTERS

USE FILTERS TO NARROW DOWN YOUR RESULTS TO WHAT'S MOST RELEVANT.

FILTER TYPE EXAMPLE USE

- ARTICLE TYPE RCTS, REVIEWS, META-ANALYSES
- LANGUAGE ENGLISH
- DATE RANGE LAST 5 YEARS

EXPERIMENTS

- ELDERS AND DIABETES
- “ELDERS AND DIABETES”
- “ELDERS” AND “DIABATES”
- “ELDERS” AND “DIABETES”
- "ELDER*" AND "DIABETES"
- "ELDER*" AND "DIABET*"
- "ELDER*[MESH]" AND "DIABET*"
- "ELDER*" [MESH] AND "DIABET*"
- "ELDER*" [MESH] AND "DIABET*" [MESH] (IT DID NOT INCLUDE DIABETES AND ELDERLY)

ACTIVITY - 1

- TASK:
- REARRANGE THE STRING TO MATCH THE PICO.
- IDENTIFY AND FIX ERRORS (E.G., MISSING OR, INCORRECT NOT)
- EDIT/ADD/DELETE BOOLEAN OPERATORS ONLY

20
Mins

ANSWERS

- ("OLDER ADULTS"[TIAB] AND "MELATONIN"[TIAB] AND "SLEEP DURATION"[TIAB] NOT "CHILDREN"[TIAB])
- ("PREGNANT"[TIAB] AND "WOMEN"[TIAB] AND "DEPRESSION"[TIAB] AND ("CBT"[TIAB] OR "COGNITIVE BEHAVIORAL THERAPY"[TIAB]) NOT "POSTPARTUM"[TIAB])
- ("CHILDREN"[TIAB] AND "ADHD"[TIAB] AND ("OMEGA-3"[TIAB] OR "FISH OIL"[TIAB]) AND "ATTENTION SPAN"[TIAB])
- ("TYPE 2 DIABETES"[TIAB] AND ("LOW CARB"[TIAB] OR "KETOGENIC"[TIAB]) AND "HBA1C"[TIAB])
- ("POST-SURGICAL"[TIAB] OR "POSTOPERATIVE"[TIAB] AND "VIRTUAL REALITY"[TIAB] AND "PAIN"[TIAB] NOT "CHRONIC PAIN"[TIAB])
- ("BREAST CANCER"[TIAB] AND "SURVIVORS"[TIAB] AND "YOGA"[TIAB] AND ("QUALITY OF LIFE"[TIAB] OR "QOL"[TIAB]) NOT "CHEMOTHERAPY"[TIAB])

EXPLANATION

**BUILDING YOUR OWN
STRATEGY**

**FROM STRATCH -
PUBMED**

2.LETS BUILD ONE

KEYWORDS - WHY DO WE NEED THEM IN SEARCH STRATEGY?

EXAMPLE -

**IN PATIENTS WITH PARKINSON'S DISEASE
(P), DOES DEEP BRAIN STIMULATION (I)
COMPARED TO STANDARD
PHARMACOLOGICAL THERAPY (C) IMPROVE
MOTOR SYMPTOMS (O)**

P (POPULATION):

- **"PARKINSON'S DISEASE"**
- **"PD"**
- **"NEURODEGENERATIVE MOVEMENT
DISORDER"**

EXAMPLE -

IN PATIENTS WITH PARKINSON'S DISEASE (P), DOES DEEP BRAIN STIMULATION (I) COMPARED TO STANDARD PHARMACOLOGICAL THERAPY (C) IMPROVE MOTOR SYMPTOMS (O)

I (INTERVENTION):

- **"DEEP BRAIN STIMULATION"**
- **"DBS"**
- **"NEUROSTIMULATION"**

EXAMPLE -

**IN PATIENTS WITH PARKINSON'S DISEASE
(P), DOES DEEP BRAIN STIMULATION (I)
COMPARED TO STANDARD
PHARMACOLOGICAL THERAPY (C) IMPROVE
MOTOR SYMPTOMS (O)**

C (COMPARISON):

- **"PHARMACOLOGICAL THERAPY"**
- **"LEVODOPA"**
- **"DOPAMINE AGONISTS"**

EXAMPLE -

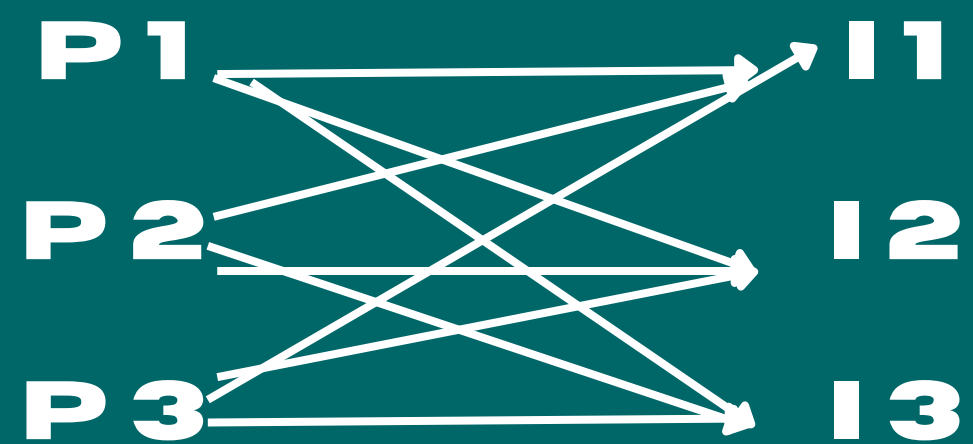
IN PATIENTS WITH PARKINSON'S DISEASE (P), DOES DEEP BRAIN STIMULATION (I) COMPARED TO STANDARD PHARMACOLOGICAL THERAPY (C) IMPROVE MOTOR SYMPTOMS (O)

O (OUTCOME):

- "MOTOR SYMPTOMS"**
- "UPDRS" (UNIFIED PARKINSON'S DISEASE RATING SCALE)**
- "TREMOR OR BRADYKINESIA" (USING BOOLEAN OPERATOR)**

PUBMED MESH TERMS AND INBUILT SEARCH STRING BUILDER

EXAMPLE -



C1

O1

C2

O2

C3

O3

81 POSSIBILITIES



2.1 GATHER YOUR PICO KEY WORDS

GATHER YOUR KEY WORDS -

AI PROMPT

GIVE ME 2-3 KEY WORDS FOR MY PICO (EACH P,I,C,O) -----

WHICH WILL HELP ME ESTABLISH SEARCH STRATEGY

5
Mins



GENERAL SEARCH STRATEGY

["P1" OR "P2" OR "P3"]

AND

["I1" OR "I2" OR "I3"]

AND

["C1" OR "C2" OR "C3"]

AND

["O1" OR "O2" OR "O3"])

10
Mins



**FIND IF YOU NEED
TRUNCATION**

TRUNCATION EXAMPLES

1. POPULATION (PARKINSON'S DISEASE)

• PARKINSON* → CATCHES:

- "PARKINSON'S"
- "PARKINSON"
- "PARKINSONISM"
- "PARKINSONIAN"

• NEURODEGENERAT* → CATCHES:

- "NEURODEGENERATIVE"
- "NEURODEGENERATION"

TRUNCATION EXAMPLES

2. INTERVENTION (DEEP BRAIN STIMULATION)

• **STIMULAT* → CATCHES:**

- **"STIMULATION"**
- **"STIMULATOR"**
- **"STIMULATING"**

• **NEUROSTIM* → CATCHES:**

- **"NEUROSTIMULATION"**
- **"NEUROSTIMULATOR"**

TRUNCATION EXAMPLES

3. COMPARISON (PHARMACOLOGICAL THERAPY)

• PHARMACOL* → CATCHES:

- "PHARMACOLOGICAL"
- "PHARMACOLOGY"
- "PHARMACOLOGIC"

• DOPAMIN* → CATCHES:

- "DOPAMINE"
- "DOPAMINERGIC"
- "DOPAMINERGICS"

TRUNCATION EXAMPLES

3. COMPARISON (PHARMACOLOGICAL THERAPY)

• PHARMACOL* → CATCHES:

- "PHARMACOLOGICAL"
- "PHARMACOLOGY"
- "PHARMACOLOGIC"

• DOPAMIN* → CATCHES:

- "DOPAMINE"
- "DOPAMINERGIC"
- "DOPAMINERGICS"

TRUNCATION EXAMPLES

4. OUTCOMES (MOTOR SYMPTOMS)

• **TREM*** → **CATCHES:**

- **"TREMOR"**
- **"TREMORS"**
- **"TREMULOUS"**

• **DYSKIN*** → **CATCHES:**

- **"DYSKINESIA"**
- **"DYSKINETIC"**
- **"DYSKINESIAS"**



**ADD TRUNCATION
IN YOUR OWN PICO
WHEREVER
NEEDED**

EXAMPLE -
“PARKINSON”

CHANGE IT TO

“PARKINSON*”



ZOTERO