FINDING THE EVIDENCE:
Building a search

OSOT 527
March 19, 2020
OBJECTIVES

• Develop skills for finding evidence
• Pico framework
• Search techniques
• Prepare for Exam on March 31
Feedback from Survey

• How to develop PICO(T) questions
• Which resources or databases or search engines or point of care tools to use
• Efficient and effective searching using search engine tools
• Narrowing results to relevant papers
Sequence of Database Searching Skills

- **INTRODUCTION**
- **OT RESOURCES**
- **SEARCHING TECHNIQUES**

**OSOT 519**

- **BUILDING ON WICKED MODULES**
- **DEVELOPING SKILLS FOR FINDING EVIDENCE**
- **PICO FRAMEWORK**
- **SEARCH TECHNIQUES**

**OSOT 527**

- **RESEARCH PROJECT SUPPORT**
- **DATABASES**
- **ADVANCED SEARCH SKILLS**
- **CITATION MANAGEMENT**

**OSOT 547**
## EXAM RUBRIC

<table>
<thead>
<tr>
<th>Search tactic</th>
<th>MAX</th>
<th>Meets expectations</th>
<th>Missed opportunity</th>
<th>MARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Included all appropriate search concepts from PICO</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of correct MeSH</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used explode as appropriate</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of appropriate keywords</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Correct use of keyword tools such as truncation</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of correct Boolean logic OR/AND</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appropriate limits eg. Age, language, study type</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Looked for appropriate study types/evidence</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combined all concepts</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Search efficiency i.e. did not limit each search statement, did not combine too many sets, logical structure</td>
<td>1</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
By the end of the workshop

✓ Be able to use PICO to design a logical search
✓ Know how to find Subject Headings (MeSH)
✓ Be able to use Explode and sub-headings
✓ Know how to search with Keywords
✓ Be able to use Truncation
✓ Know how to combine search results with AND or OR
✓ Be able to Refine search results with Limits
✓ Know how to Save your search
✓ Be able to Send Search History for marking
Building Blocks

- P: Patient, Population, Problem
- I: Intervention, Issue
- C: Comparison, Control
- O: Outcome

Search Terms (MeSH & keywords) and Combinations
PICO(T)

Would the use of commercial video game systems such as Xbox, Kinect, or Nintendo Wii improve balance outcomes in aged patients who have had a stroke?

-------Analyse the PICO
<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>STROKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>WII or comparable video games</td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Improve balance</td>
<td></td>
</tr>
</tbody>
</table>
Structured Search Template

1. P subject heading
2. P keyword
3. 1 or 2
4. I subject heading
5. I keyword
6. 4 or 5
7. 3 and 6
8. Limit

See example on handout
Exploding the ASTHMA Tree

BANG!

Asthma and the more specific concepts are all searched together with OR
Twins: Subject Heading and Keyword

Hold hands with OR
Combining search sets (Boolean)

mORe

A

B

AND

A

B
Truncation and Wildcards

Use **truncation symbol** * for variant endings
  * At end for plural, tenses etc.
    
    e.g. walk* = walks, walking, walker ....

Use **wildcard symbols** ? or # for alternative spelling
  ? For British/American 0 or 1 character
    
    e.g. colo?r = colour or color
  # For 1 letter change
    
    e.g. wom#n = woman or women
Send a search history

- Check **one** reference
  - Highest level of evidence for the exam
- Click on *Email*
- In the popup box add *your email*
- In the From box type *your email*
- In Subject line provide *your name*
- In Message box type your *PICO(T) question*
- Check **Include Search History**