FINDING THE EVIDENCE:
Building a search

OSOT 527
March 7, 2019
OBJECTIVES

• Develop skills for finding evidence
• Pico framework
• Search techniques
• Prepare for Exam on March 25
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

- OSOT 519
  - INTRODUCTION
  - OT RESOURCES
  - SEARCHING TECHNIQUES

- OSOT 527
  - BUILDING ON WICKED MODULES
  - DEVELOPING SKILLS FOR FINDING EVIDENCE
  - PICO FRAMEWORK
  - SEARCH TECHNIQUES

- OSOT 547
  - RESEARCH PROJECT SUPPORT
  - DATABASES
  - ADVANCED SEARCH SKILLS
  - CITATION MANAGEMENT
<table>
<thead>
<tr>
<th>Search tactic</th>
<th>MAX</th>
<th>Meets expectations</th>
<th>Missed opportunity</th>
<th>MARK</th>
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</thead>
<tbody>
<tr>
<td>Included all appropriate search concepts from PICO</td>
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<tr>
<td>Use of correct MeSH</td>
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<td>Used explode as appropriate</td>
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<td>Use of appropriate keywords</td>
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<tr>
<td>Correct use of keyword tools such as truncation</td>
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<tr>
<td>Appropriate limits eg. Age, language, study type</td>
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<tr>
<td>Combined all concepts</td>
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<td>Search efficiency i.e. did not limit each search statement, did not combine too many sets, logical structure</td>
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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

- Patient, Population, Problem
- Intervention, Issue
- Comparison, Control
- Outcome

Search Terms (MeSH & keywords) and Combinations
Would the use of commercial video game systems such as Xbox, Kinect, or Nintendo Wii improve balance outcomes and quality of life in aged patients who have suffered a stroke?

-------Analyse the PICO
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

\[ \text{AND} \]

\[ A \cap B \]
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
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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**