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EBP Workshop

Catherine Suttle





In this session

- We are going to:
 - Use an ophthalmic practice-related scenario to find evidence
 - Follow the first two steps of the EBP process:
 - Ask
 - Acquire

Tomorrow you will go through this process yourself





How we will do this

- Using a clinical scenario, we will formulate an answerable question using the PICO method
- Find evidence, starting at the highest level and working down





What is an 'answerable' question?

- We can pose a question, but it might be too vague or ambiguous to find a specific answer.
 - Example: Does homeopathy work?
- On the other hand, we can pose a specific question for which we can find information targeting that particular question
 - Example: Is homeopathy effective in the treatment of chronic open angle glaucoma?





Use of the 'PICO' method

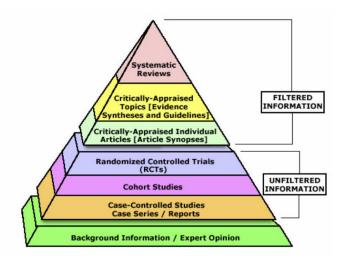
- This method helps us to ensure we include all important concepts in the question
- The method often needs to be modified in order to include relevant concepts
 - For example, your scenario may include no intervention (I), and you may not want to include a comparison (C).
 - You may be interested in a diagnostic test, or perhaps in prevalence or prognosis of a particular condition.
 - See the <u>EBOptometry web site</u> for more on this





Where do we look for evidence?

- Start at the top of the pyramid and work down if necessary
- Start with one or more of these (or other) resources:
 - www.cochrane.org/
 - www.trip.com
 - www.ncbi.nlm.nih.gov/pubmed





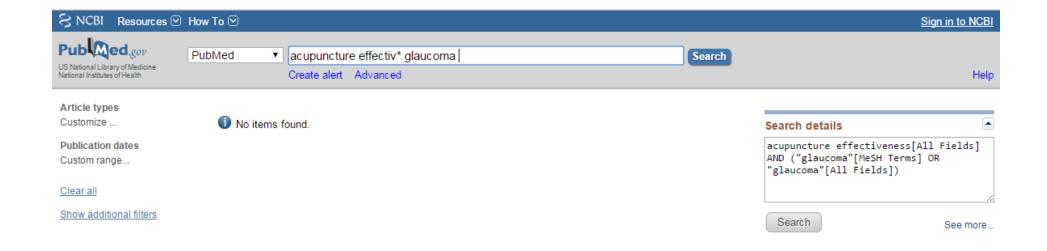


How do we look for evidence?

- We use key words taken from our question
- Narrow or broaden the search as needed
- For example, for the question:
 - Is acupuncture effective as a treatment for glaucoma?
 - I might use the keywords acupuncture, effectiv* and glaucoma



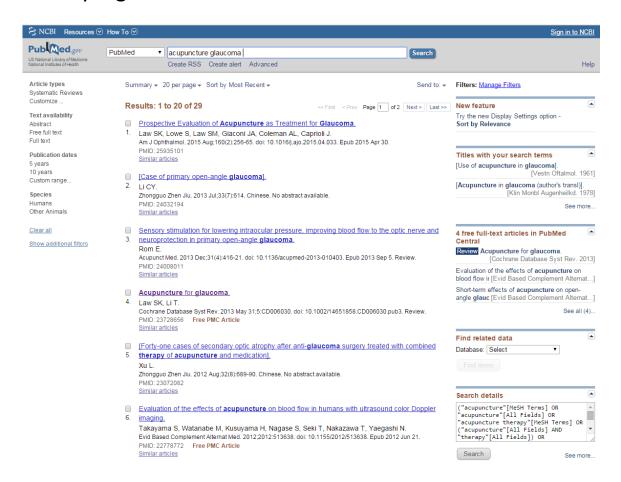
No results are found with these search terms. The search was too narrow, and needs to be broadened.







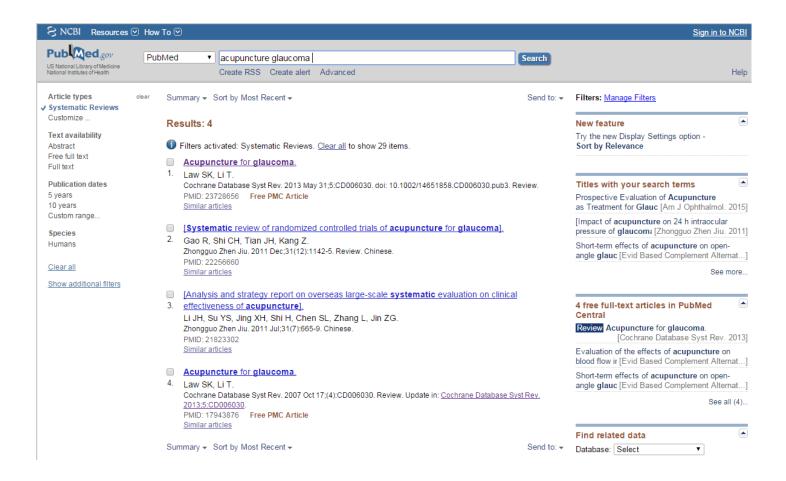
Now we might try *acupuncture glaucoma* and see what comes up. 29 is a fairly manageable number, but we could narrow this down a bit to include only high level evidence.







Great – some systematic reviews – and the most recent is available via 'open access'.







An example clinical scenario

- True story!
- A patient contacted the clinic to ask about some treatment she had heard about called perceptual learning which could improve reading in presbyopes, and asked whether we offered this, and what we thought of it.



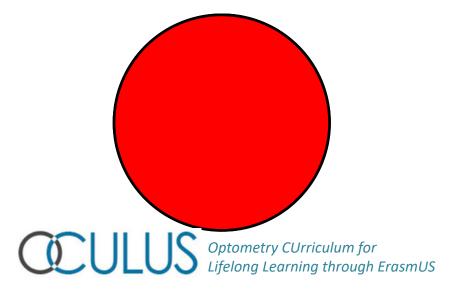
Next, we need to refine the scenario into a question

- Patient, population, problem?
- Intervention, or test?
- Comparison?
- Outcome?

 Have a go – talk with your partner(s) and decide on each of these components

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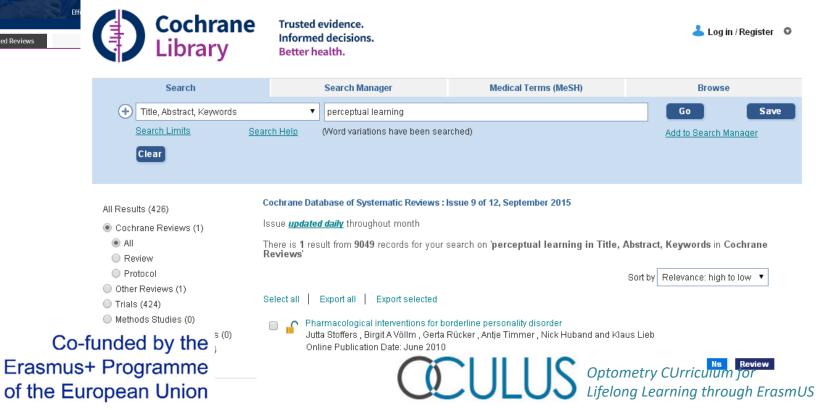
Our question and key words

- So our question could be:
- Does perceptual learning improve near acuity in presbyopes?
- This suggests the following key words
 - Perceptual learning
 - Near acuity
 - Presbyope or presbyopia
- We can use these key words in our search for evidence

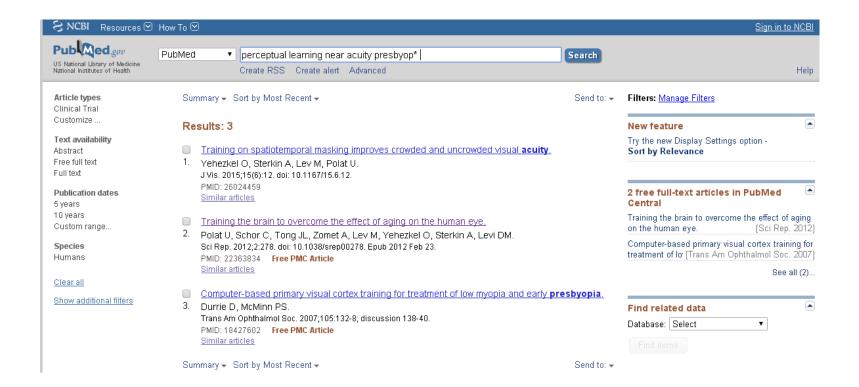


Highlighted Reviews

The Cochrane database has only one article, which is not relevant.



A few research papers are available on Pubmed. What level of evidence are they? Are they relevant? Are they available?







This article describes relevant research which seems to be the highest level available on this question – so we could appraise this one.



Now you try:

- Think of a clinical question you would like to answer
- Form an answerable question
- Identify key words from that question to form the basis of a search
 - [Here, you are conducting the first step, Ask]



