PubMed Practice

<http://www.ncbi.nlm.nih.gov/pubmed>

Exercise #1

1. Clear your history and start with a fresh main screen and no limits set.

2. From the Search screen, search for articles on VESTIBULAR VERTIGO. How many articles did you identify? \_\_\_\_\_\_\_\_\_

3. Now you want to know if there are any articles on VESTIBULAR VERTIGO and QUALITY OF LIFE. Now how many articles did you identify? \_\_\_\_\_\_\_

4. Now refine your search so it specifically searches only vestibular vertigo and quality of life as 2 terms. (use quotations). Now how many articles did you identify? \_\_\_\_\_\_\_

5. What is the difference between search number 3 and 4? Use specific terms in your answer.

6. From search results in question 5, specify your filters for no specific article type, full text availability, publication dates between January 1, 2009 and December 31, 2014, and language German. Which article do you identify? Add it to your clipboard.

7. Clear all history and filters.

8. From the Advanced Search Screen, search for vertigo in all fields, author Eva Grill, Journal of Neurology, mesh terms: Primary health care and benign paroxysmal positional vertigo, published in 2014. Which article did you identify? Add the article to your clipboard.

Now create and perform a search on your own listing the steps from a scenario:

9. Your patient is a 42 year old female who describes frequent (4-5 times per week) symptoms of heartburn which occurs 30-60 minutes after meals, a sour or bitter taste in her mouth, and chronic sore throat. Her physical exam and laboratory data are normal. You know that gastroesophageal reflux disease (GERD) affects approximately 20% of adults and suspect that she may have this condition. You wish to find out if there is a recent English language clinical practice guideline available that discusses the diagnosis and treatment for this condition.

Please present how you went about this search, what fields and terms you used, and what final article you came up with.

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Exercise #2

1. Make sure your history is cleared and start with a fresh main screen with no limits set.

2. From the Search screen, search for articles on DIZZINESS. How many articles did you identify? \_\_\_\_\_\_\_\_\_

3. Now restrict the language to English only and for patients aged 65 or older. How many articles did you identify? \_\_\_\_\_\_\_\_\_

4. How many of these articles have to do with anxiety and dizziness? \_\_\_\_\_\_\_

5. Now look only for articles published in the last 5 years. How many articles fall into this category? \_\_\_\_\_\_\_\_\_\_

6. Now you want only articles in the field of health care utilization. The number of articles that fit this criteria is \_\_\_\_\_\_\_\_.

7. Who is the author and journal of the first article in exercise #6? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Enter in your latest search from your search history, but change the first AND to OR. (dizziness OR anxiety……) How many articles do you see? \_\_\_\_\_\_\_\_

9. Enter in your latest search from your search history, but change the first OR to NOT. (dizziness NOT anxiety……) How many articles do you see? \_\_\_\_\_\_\_\_

10. Explain the difference between #6 using AND, #8 using OR, and #9 using NOT.

11. Clear your history and start with a fresh main screen and no limits set.

12. Can antihypertensives give you diabetes? There was an important study on this topic in the New England Journal of Medicine by Fried, et al. Can you find it? Show your steps.

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Exercise #3:

1. Find references about the relationships between circadian rhythms and either cortisol or melatonin in humans. The search showed \_\_\_\_\_\_\_\_\_ articles.
2. Now perform a basic search specifically (only) for the term heart surgery in all fields.
3. Now go to Search History, combine the previous searches #1 and #2. What is the search coding for combining these two searches? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many articles do you find? \_\_\_\_\_\_\_\_\_\_\_\_

1. Select the article titled, “Effects of the heart-lung machine on melatonin metabolism and mood disturbances.” What are some of the MesH Terms for this citation?
2. Clear all Search History and make sure no limits are set.
3. What are the appropriate MesH Terms for the following:
   1. Heart attack \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Malaria \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. What ages are included in the term “child, preschool?” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the preferred MesH Term for “drooling?” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Using the MesH Database, find citations to articles about the prevention of chickenpox or the prevention of measles during pregnancy. Combine these results to retrieve English language articles within the last 5 years. How many articles do you end up with?\_\_\_\_\_\_\_\_\_\_\_\_ Show your search steps and the final search coding.

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Exercise #4

1. Clear your search history and start with a fresh main screen with no limits set.

2. From the Search screen, search for articles on nonsteroidal anti-inflammatory drugs.

How many articles did you identify? \_\_\_\_\_\_\_\_\_\_\_\_

3. You want to know if there are any articles on NSAIDs being applied topically. (Hint: Go to Advanced search and add to your previous search). How many articles do you now identify?\_\_\_\_\_\_\_\_\_\_\_

4. Now you have your search terms you intended for, but want only systematic reviews on this topic. What are 2 ways you could perform this search?

5. You have now decided to include both systematic reviews and randomized controlled trials on NSAIDs applied topically or orally that can lead to kidney failure. Show the steps of this search and how many articles you found: \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Also include the search coding used.

6. Clear all history and start with a fresh main screen and no limits set.

7. You saw this reference in one paper that you read and would like to read it. How would you go about searching for this specific article in PubMed?

Yardley L, Owen N, Nazareth I, Luxon L. Prevalence and presentation of dizziness in a general practice community sample of working age people. Br J Gen Pract. 1998;48:1131–5.

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Exercise #5

1. Clear your search history and start with a fresh main screen with no limits set.
2. From the Search screen, search for articles on SARCOPENIA. How many articles did you identify? \_\_\_\_\_\_\_\_\_

3. Now restrict the language to English only and for patients aged 65 or older. How many articles did you identify? \_\_\_\_\_\_\_\_\_

4. How many of these articles have to do with sarcopenia and disability? \_\_\_\_\_\_\_

5. Now look only for articles published in the last 5 years. How many articles fall into this category? \_\_\_\_\_\_\_\_\_\_

6. Now you want only articles including information on sarcopenia and muscle mass. The number of articles that fit this criteria are \_\_\_\_\_\_\_\_.

7. Who is the author and journal of the first article in exercise #6? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Enter in your latest search from your search history, but change the first AND to OR. (sarcopenia OR muscle mass……) How many articles do you see? \_\_\_\_\_\_\_\_

9. Enter in your latest search from your search history, but change the first OR to NOT. (sarcopenia NOT muscle mass……) How many articles do you see? \_\_\_\_\_\_\_\_

10. Explain the difference between #6 using AND, #8 using OR, and #9 using NOT. Draw a venn diagram to explain.

11. Clear your history and start with a fresh main screen and no limits set.

12. Is sarcopenia associated with disability? There was an important study on this topic in the Journal of American Geriatrics Society by Janssen, et al in 2006. Can you find it? Show your steps.