Chapter 3

Accessing the Biomedical Literature for the Best Evidence



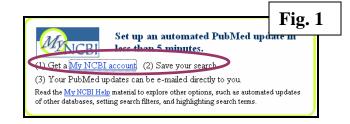
Starting the Search

Creating and Using a My NCBI Account

Make sure your browser supports Pop-ups and accepts "cookies"

A. Register for a My NCBI Account

- 1 Go to: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 Click on "Get a My NCBI account" (fig. 1)
- 3 Click on "Register" on the next page
 - Follow the instructions and click "Register" (fig. 2)
- 4 Check your Email for the confirmation
- 5 Follow the instructions on the email
- 6 You can Click the "Keep me signed in unless I sign out" checkbox so you will be indefinitely logged in on your personal computer *do not* use this option on shared or public computers.





B. Sign in to My NCBI

- 1 Go to http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 On the top right hand corner, click on "Sign In" (fig. 3)



Sign in here or register for an account.

User Name
Password

Keep me signed in unless I sign out
Leave unchecked on public computers

Sign In

I forgot my password
About automatic sign in

My NCBI: Sign In

3 Type in your Username and Password (fig. 4)

C. Save a Search to My NCBI and Get Email Updates

- 1 Go to http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 Enter your Search terms in the Search Box (fig. 5)
- 3 After you are done with your search, you will see an option to "Save Search" (fig. 6)
- 4 A Pop-Up Box will appear (fig. 7)
 - Decide if you want to receive email updates
 - 1. Click Yes if you are in EBP-1
 - 2. Have emails sent to your NUHS account
 - Press Okay when done



Performing a Search Using the PubMed Database of Biomedical Literature

A. Starting the Search

- 1 Go to: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 Identify the key concepts for your search.
- 3 Enter the terms in the search box. (fig. 1)
 - You can search by keyword, subject, or author
- 4 Click Go.



B. Searching Techniques

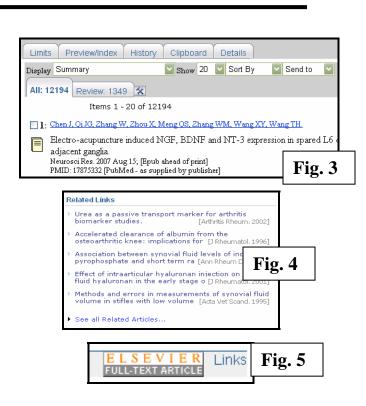
- Booleans (AND, OR, NOT) can be used to broaden or narrow your search.
- 2 The **Wildcard** (?) can be used to replace any character.
 - Enter **ne?t** to find results containing **neat**, **nest or next**.
- 3 Truncation (*) will find all forms of a word. Enter chiro* to find results containing chiropractic and chiropractor. Enter acup* to find results containing acupuncture and acupressure.
- 4 Click **Single Citation Matcher** from the sidebar to find citations with a fill-inthe-blank format (**fig. 2**)

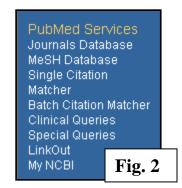


- Search by Clinical Study categories (therapy, diagnosis, etiology, etc) for background (broad) or foreground (narrow) clinical questions.
- 6 Click on **Special Queries** from the sidebar to initiate pre-build clinical queries focused on complementary and alternative medicine topics. Scroll down to "CAM on PubMed."

C. Viewing Results (fig. 2)

- 1 Citations are initially displayed 20 per page with the most recently entered citations displayed first
- 2 You can **Sort by** Publication Date, Author, or Journal
- The **Author** link takes you to the citation information and/or the full text of the abstract. (**fig. 3**)
- 4 Clicking the "Related Articles, Links" link will perform a search for articles with similar subject headings. A new Result List will display. (fig. 4)
- 5 In the **Abstract View**, you can get full-text of an article if you see the following (or similar) link in the top right corner. (**fig. 5**)
- You can use the "**Send to**" pull-down bar (**fig. 3**) to send the abstract as an email or to the printer





D. Using Limits

- Click on the "Limits" tab below your search query. (fig. 6)
- 2 You can Limit by: (fig. 7)
 - Publication Date
 - Human or Animal Subjects
 - Gender
 - Subsets and Topics (including CAM)
 - Language
 - Study Design
 - Subject Age
 - Type of Article



Core clinical journals

Dental journals

Nursing journals

Clipboard

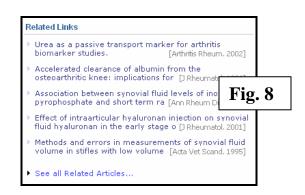
History

Fig. 6

Details

E. Expanding Results

- Clicking the "Related Articles, Links" link will perform a search for articles with similar subject headings. A new Result List will display. (fig. 8)
- 2 Remove too broad or too specific terms from the search box to change the results.
- 3 Try using alternative terms to describe the concepts for which you are searching.
- 4 Save your searches using your My NCBI account. When finished, save your best searches and delete those that produced too many or non-relevant results.



F. Copying & Pasting the Query

- 1 In PubMed, click on the "History" tab (fig. 9)
- 2 Select the search that you used to locate your articles from the list of searches performed (fig. 10)



Search Most Recent Queries

#2 Search Knee and Hip and Pain Limits: only items with abstracts, Humans, Randomized Controlled Trial,
English, Complementary Medicine, All Adult: 19+ years

Limits

French

German

Italian

Japanese

Preview/Index

3 Paste Query into the Search Evaluation Form

G. Emailing the Citation

- 1 Click on the Author link for a selected result to view the abstract.
- In the drop down menu, select the "**Abstract Plus**" view.
- In the Abstract Plus view, click on the "**Send to**" pull down list (**fig. 8**)
 - Select "Email"

 Fig. 11

 Display AbstractPlus Show 20 Sort by Send to Send to

- 5 Select "Citation"
- 6 Type in "Team#.Topic.Search1" in the comments box. Add other comments to help you identify the activity, view, results, etc. as you see fit.
- 7 Type in the email addresses that you want to send the citation to, separated by a semi-colon (;)
 - Send the citation to your own email account
 - Send the citation to <u>ebp1@nuhs.edu</u>

Creating a Single PubMed Citation

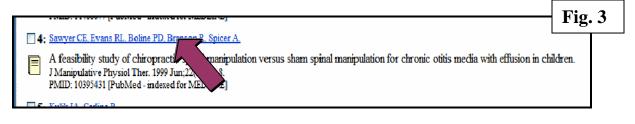
 Perform a simple search on PubMed http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?DB=pubmed (fig. 1)



2. Change the Display to the Summary format using the drop down box. (fig. 2)



3. Click the author link to display the AbstractPlus format (fig. 3)



4. **Copy the URL** completely from the browser's address bar. (fig. 4) You may also copy the **article's title**, which contains the permanent URL to the abstract.



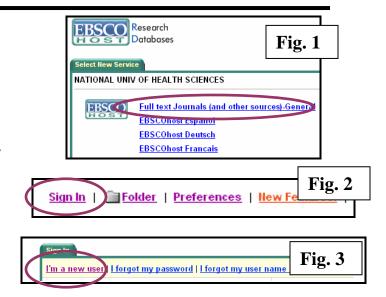
5. Paste the URL or the Article's Title into the Search Evaluation Form document. (fig. 5)

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=10395431&query_hl =1&itool=pubmed_docsum Fig. 5

Creating and Using a My EBSCOhost Account

A. Register for a My EBSCOhost Account

- 1 You can Access EBSCO in any of three ways.
 - Go to: http://search.ebscohost.com/
 - Use the LRC database page: http://www.nuhs.edu/show.asp?durki=216
 - Off Campus: Use the ID and Password List
- 2 Click on "Full text Journals (and other sources)-General" (fig. 1)
- 3 Select any of the databases and click "Continue"
 - Selecting one database allows the use of subject headings, controlled vocabulary – both a benefit to focused search strategies
- 4 Click on "Sign In", at the top right corner (fig. 2)
- 5 Click on "I'm a New User" on the next page
 - Fill in the information and click "Submit"
 - Please use your <u>NUHS student email</u> account to avoid spam filtering
- 6 Click "Continue" when you see the prompt



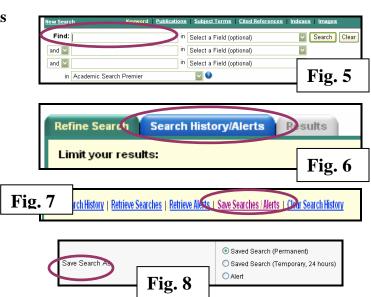
B. Sign in to My EBSCOhost

- 1 Go to http://search.ebscohost.com/
- 2 Click on "Full text Journals (and other sources)-General"
- 3 Select any of the databases and click "Continue"
- 4 Click on "Sign In", at the top right corner
- 5 Type in your Username and Password (**fig. 4**)



C. Save a Search to EBSCOhost and Get Email Updates

- 1 Go to http://search.ebscohost.com/
- 2 Log into you're My EBSCOhost account and select a database
- 3 Enter your Search terms in the Search Box (fig. 5)
- 4 On the Search Results page, click on "Search History/Alerts" (fig. 6)
- 5 Click on "Save Searches/Alerts" (fig. 7)
- 6 Follow the directions and click "Save"
 - Decide if you want to receive email updates
 - 1. If you are in EBP1, Save Search as "Alert" (fig. 8)



Performing a Search Using EBSCOhost Databases of Biomedical Literature

A. Starting the Search

- 1 Go to: http://search.ebscohost.com/
- 2 Click on "<u>Full text Journals (and other sources)</u>-General"
- 3 Select any of the databases and click "Continue"
- 4 Enter your search terms in the **Find** field. (**fig. 1**)
- 5 Click the **Search** button. A Result List is displayed.



B. Searching Techniques

- 1 Booleans (AND, OR, NOT) can be used to broaden or narrow your search.
- 2 The **Wildcard** (?) can be used to replace any character.
 - Enter ne?t to find results containing neat, nest or next.
- 3 **Truncation** (*) will find all forms of a word. Enter **chiro*** to find results containing **chiropractic** and **chiropractor**. Enter **acup*** to find results containing **acupuncture** and **acupressure**.
- 4 The Near (N) operator will find search terms within x words of one another, regardless of order.
 - Enter chiropractic N5 manipulation to find results that would match chiropractic manipulation as well as manipulation and chiropractic adjustment. (Using N5 results in items within 5 words proximity from each other).
- The **Within** (W) operator will find search terms within x words of one another, in the order in which you entered them.
 - Enter chiropractic W8 manipulation to find results that match chiropractic manipulation or chiropractic manipulation and modalities, but do not match manipulation and chiropractic adjustment. (Using W8 results in items within 8 words proximity from each other, in order).

C. Viewing Results (fig. 2)

- 1 The **Article Title** link takes you to the citation information and/or the full text. (**fig. 2**)
- 2 The **HTML Full Text** link takes you directly to the full text of the article in an "on-line" version.
- 3 The **PDF Full Text** link takes you to a Portable Document Format (PDF) version of the full text. The PDF will open in the Adobe® Reader®.
- 4 Clicking the **Folder** icon to the right of a result saves it to your EBSCO*host* account folder.
- 5 When a **Find More Like This** appears, click to perform a search for articles with similar subject headings. A new Result List will display. (**fig. 3**)

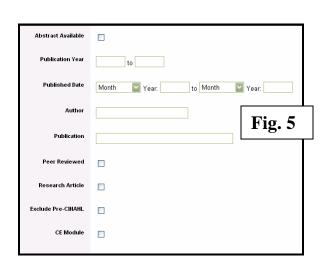






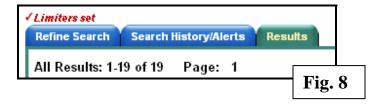
D. Using Limits

- 1 Limits can be set in EBSCO*host* in many ways
 - Use the navigation bar at the top of the screen to limit by Publication, CINAHL Headings, Cited References, or to search the Index. (fig. 4)
 - Use the "Advanced Search" tab to limit your search further (fig. 5)
 - 1. Journal Subset (try: CAM Therapies)
 - 2. Special Interest (try: Chiropractic or EBP)
 - 3. You can also limit by publication date and/or type, author, peer-viewed, language, age group, and gender.

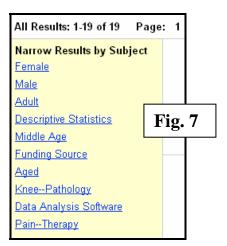


E. Expanding Results

- 1 When a **Find More Like This** appears on the abstract page, click to perform a search for articles with similar subject headings. A new Result List will display. (**fig. 6**)
- You can narrow or broaden your results by clicking on any of the subject headings listed in the yellow Thesaurus Box to the left of your search results. (fig. 7)
- 3 Clicking on "Search History/Alerts" will allow you to see and combine past searches to find new results. (fig. 8)







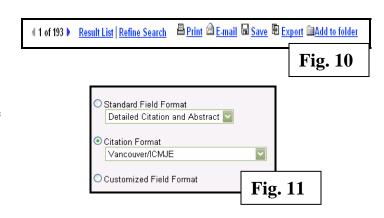
F. Copying & Pasting the Query

- 1 At the Top of the results page, locate the query after "Results For:" (fig. 9)
- 2 Copy and Paste this into the Advanced Search Form



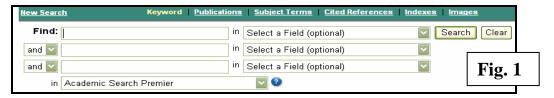
G. Emailing the Citation

- 1 In the Abstract View, Click on "Email" (fig. 10)
- 2 Select "Citation Format" and "Vancouver/ICMJE" (fig. 11)
- 3 Type in the email addresses that you want to send the citation to, separated by a semi-colon (;)
 - Send the citation to your own email account
 - Send the citation to ebp1@nuhs.edu



Creating a link to an EBSCOhost citation

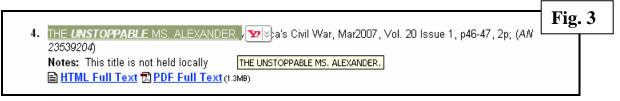
 Perform a basic search on EBSCOhost http://search.ebscohost.com/ (fig. 1)



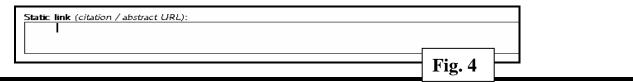
2. On the Results Page, find an article you like (fig. 2)



3. Select the title link by highlighting with your cursor (fig. 3)



4. Copy and Paste the complete title into the Search Evaluation Form (fig. 4)



5. In the Word Document, Ctrl + Click on the link to open it in Internet Explorer. (fig. 5)



6. In most browsers, you can **Copy and Paste** the URL in the Internet Explorer when the Abstract comes up, and then Paste back into the word file (**fig. 6**)

If you have Vista, stop at Step 5 to make sure that the link works to take you to the abstract.



Determining the Quality and Relevance of an Article

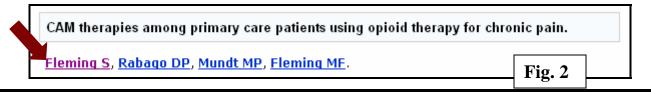
A. Performing the Search

- 1 Go to: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 Identify the key concepts (terms) for your search from your PICO question.
- 3 Enter the terms in the search box. (fig. 1)
- 4 Click Go.



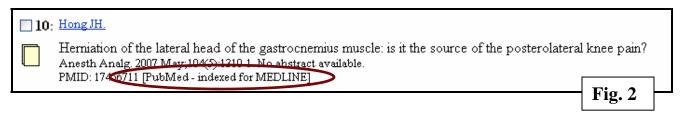
B. Checking the Authors

- 1 In the Abstract View, Click on any of the author names (fig. 2)
- 2 This will open up a list of all of the titles that the author has published.



C. Checking the Journal

- MEDLINE journals are peer-reviewed
 - Click on the journal link from the abstract view to see if journal is indexed in MEDLINE (fig. 2)



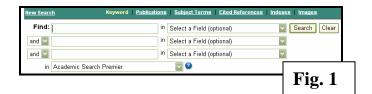
- 2 But, not all peer-reviewed journals are indexed in MEDLINE
 - Click on journal link to go to journal website; check "about us" or similar look for "peer-reviewed", editorial board, or similar



Determine the Quality and Relevance of an Article

A. Performing the Search

- 1 Go to: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi
- 2 Identify the key concepts (terms) for your search from your PICO question.
- 3 Enter the terms in the search box. (fig. 1)
- 4 Click Go.



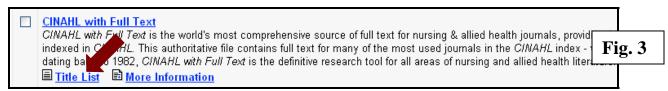
B. Checking the Authors

- 1 In the Abstract View, you can see the authors' affiliations
- 2 Click on any of the author names to open up a list of all of the titles that the author has published. (fig. 2)



C. After Performing your Search – Check the Journal

1 Most EBSCO*host* databases list journal titles link on "Select Database" page (fig. 3)



- 2 Click "titles" >> click specific journal >> look for info (fig. 4)
 - CINAHL contains a list of peer-reviewed journals

