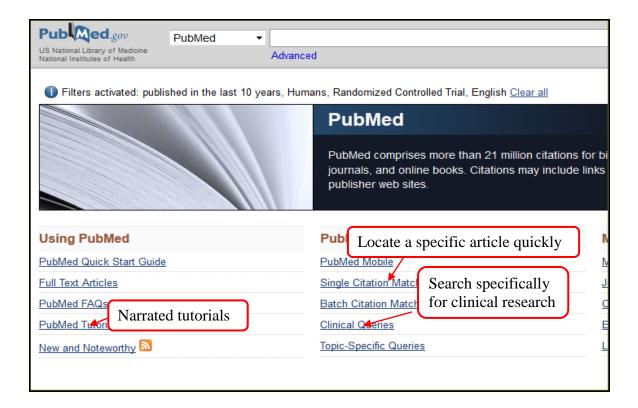


### **Medical Education Literature Searching**

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#### THE ADVANCED LITERATURE SEARCHING APPROACH

- 1. Run a quick search with your own keywords
  - Use OR to connect similar concepts
  - Use AND to connect different concepts
  - Use "quotation marks" to look for an exact phrase
  - Use [tiab] to find word/phrase in the article title/abstract
  - Use [ti] to find word/phrase in the article title
  - Use \* to find possible endings to a word (i.e., discover\* finds discovery, discoveries, etc.)
- 2. View the abstract to "fish" for medical subject headings (MeSH) terms to enhance your search
- Create a search line for each separate concept
- 4. Use the <u>Search History</u> (found on the *Advanced Search* link) to formulate searches incorporating the MeSH terms you found
- 5. Search the <u>Web of Science</u> database to see who has cited interesting articles that you found in your Pubmed search



### Step 1: Run a quick search with your own keywords

<u>Sample research question:</u>

How effective are interactive learning materials on medical student learning?

Sample "quick and dirty" PubMed search phrase:

effective\* AND (interactive learning materials OR online tutorials) AND medical students

## Step 2: View the abstract to "fish" for medical subject headings (MeSH) Terms to enhance your search



- MeSH terms are assigned to every article in PubMed to help classify the topics of a paper
- Select <u>+ MeSH Terms</u> below the abstract to see the MeSH terms for that article



TIP:

- Jot down the different MeSH terms that you are interested in searching as you peruse several articles of interest.
- Can also use the MeSH Database to browse terms (located on the homepage of PubMed)

research question: How effective are interactive learning materials on medical student learning?

Sample search terms:

Concept A	Concept B	Concept C	Concept D
Computer-assisted instruction Educational technology	Education, medical, undergraduate	Teaching Learning	Program development Program evaluation Data collection Educational Measurement

### Step 3: Create a search line for each separate concept

<u>Sophisticated search strategy utilitizing PubMed's Advanced link:</u>

- #1 computer-assisted instruction OR educational technology
- #2 education, medical, undergraduate
- #3 teaching OR learning
- #4 program development OR program evaluation OR data collection OR educational measurement

# Step 4: Use the <u>Search History</u> to formulate searches incorporating the MeSH terms you found (fine to also include non-MeSH terms)

<u>Sample search strategies can be mixed and matched in the advanced Search builder boxes :</u>

#1 AND #2 AND #3 AND #4

#1 AND #2 AND #3

(use filters to narrow your search results, if necessary)

# Step 5: Search the <u>Web of Science</u> database to see who has cited interesting articles that you found in your PubMed search

- 1. Connect to the **Web of Science** database on the Library's homepage
- 2. Enter the title of an article and run a title search.



3. Click the Times Cited link to get a full list of articles citing this paper

1. Title: Three domains of competency in global health education: Recommendations for all medical students

Author(s): Houpt Eric R.; Pearson Richard D.; Hall Thomas L.

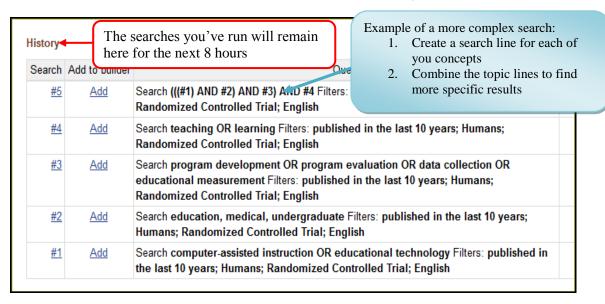
Source: ACADEMIC MEDICINE Volume: 82 Issue: 3 Pages: 222-225 DOI: 10.1097/ACM.0b013e3180305c10

Published: MAR 2007

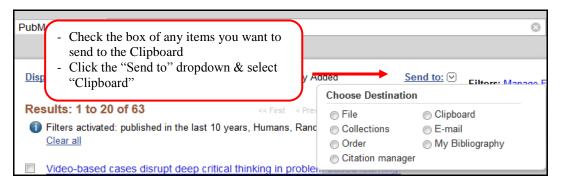
Times Cited: 30 (from Web of Science)

#### MANAGING YOUR PUBMED RESULTS

(a) Use the Advanced Search Builder screen to review and refine your searches.



(b) Send items to the <u>Clipboard</u> to collect articles of interest from different searches and then send those results via email, print them, save them (to "Collections" or "My bibliography) or import them to Reference Manager (RefWorks or Endnote)



c) Save Searches and setting up an automatic updates using MyNCBI



- Select the "**Save search**" link to save your search strategy.
- Choose how often you'd like new search results sent to your email

Repositories for Online Learning Materials		
MedEd Portal	www.aamc.org/mededportal	
Merlot	www.merlot.org	
Heal	http://www.healcentral.org	
Collection of Learning Modules created by UCSF faculty and students: http://medschool.ucsf.edu/irocket/resources/lm/		

### **Electronic Journals Related to Medical Education**

Academic Medicine

**BMC Medical Education** 

Clinical Teacher

JAMA (September Medical Education issues, starting from 2004)

Medical Education (also check out their May & Nov issues for the "Really Good Stuff" section

Medical Education Online

Medical Teacher

Teaching & Learning in Medicine

#### Other medical specialty journals:

Academic Emergency Medicine

Advances in Health Sciences Education

### OTHER RESOURCES

Medical Education Literature Searching Blog Super Searching Medical Education Subject Guide http://mededlit.blogspot.com http://guides.library.ucsf.edu/supersearching http://guides.library.ucsf.edu/meded

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June 2012