ENHANCING INTERNAL MEDICINE RESIDENTS' INFORMATION ACCESS – USING PUBMED'S SYSTEMATIC REVIEWS, CLINICAL QUERIES AND CUSTOMIZED SEARCH STRATEGIES

Lisa Smith, MLS and Linda King, MLS, AHIP

Gibson D. Lewis Health Science Library, University of North Texas Health Science Center at Fort Worth

PROJECT OVERVIEW

- Purpose: To provide Internal Medicine residents online access to citations of relevant topics in the medical literature to assist in their clinical decision making and to enhance the education process.
- Participants: Gibson D. Lewis Health Science Library reference librarians, Texas College of Osteopathic Medicine (TCOM) and Osteopathic Medical Center of Texas (OMCT) Internal Medicine residents, interns, students, and attending physicians.
- Project Description: The Gibson D. Lewis Health Science Library of the University of North Texas Health Science Center (UNTHSC) implemented a Clinical Librarianship Program in the summer of 2003. The goal of this program is to provide physicians with timely, evidenced-based information to improve patient care.

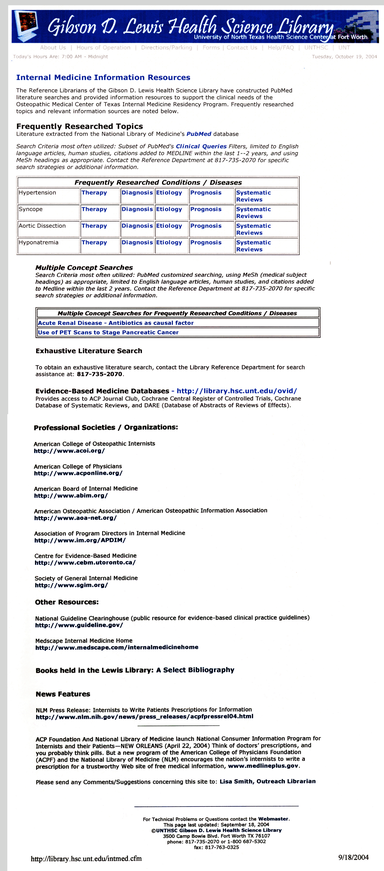
  A web page was constructed for Internal Medicine Residents which provides direct links to search results for frequently requested research topics. Customized searches were developed utilizing MeSH headings/subheadings in addition to clinical queries. A comparison of clinical queries and customized strategies revealed tailored searches were more relevant and succinct for our user population.

Promotion

- A demonstration of the web page and explanation of search strategies was conducted for morning report attendees in May 2004. The web page contains a link to PubMed for end-user searching, and selected Internal Medicine sites.
- The webpage was also announced in the Internal Medicine newsletter and distributed to residents, interns and faculty.
- The site will be previewed at the upcoming Fall Internal Medicine Departmental meeting.
- Librarians will promote the tool at each annual Internal Medicine new student orientation.

Assessment

- Usage of the site will be monitored by reviewing the number of hits to the web site via periodic WebTrends software reports.
- User satisfaction will be assessed by linking a survey via the web page to solicit feedback concerning the relevance of the site.
- Librarians will seek informal feedback from residents as librarians continue to participate in the Internal Medicine morning report process.



Gibson D. Lewis Health Science Library
University of North Texas Health Science Center at Fort Worth

Today's Hours Are: 7:00 AM – Midnight

Tuesday, October 19, 2004

Internal Medicine Information Resources

The Reference Librarians of the Gibson D. Lewis Health Science Library have constructed PubMed literature searches and provided information resources to support the clinical needs of the Osteopathic Medical Center of Texas Internal Medicine Residency Program. Frequently researched topics and relevant information sources are noted below.

Frequently Researched Topics

Literature extracted from the National Library of Medicine's ***PubMed*** database

*Search Criteria most often utilized: Subset of PubMed's **Clinical Queries** Filters, limited to English language articles, human studies, citations added to MEDLINE within the last 1–2 years, and using MeSH headings as appropriate. Contact the Reference Department at 817-735-2070 for specific search strategies or additional information.*

Frequently Researched Conditions / Diseases					
Hypertension	**Therapy**	**Diagnosis**	**Etiology**	**Prognosis**	**Systematic Reviews**
Syncope	**Therapy**	**Diagnosis**	**Etiology**	**Prognosis**	**Systematic Reviews**
Aortic Dissection	**Therapy**	**Diagnosis**	**Etiology**	**Prognosis**	**Systematic Reviews**
Hyponatremia	**Therapy**	**Diagnosis**	**Etiology**	**Prognosis**	**Systematic Reviews**

Multiple Concept Searches

Search Criteria most often utilized: PubMed customized searching, using MeSh (medical subject headings) as appropriate, limited to English language articles, human studies, and citations added to Medline within the last 2 years. Contact the Reference Department at 817-735-2070 for specific search strategies or additional information.

Multiple Concept Searches for Frequently Researched Conditions / Diseases
Acute Renal Disease - Antibiotics as causal factor
Use of PET Scans to Stage Pancreatic Cancer

Exhaustive Literature Search

To obtain an exhaustive literature search, contact the Library Reference Department for search assistance at: **817-735-2070**.

Evidence-Based Medicine Databases - http://library.hsc.unt.edu/ovid/
Provides access to ACP Journal Club, Cochrane Central Register of Controlled Trials, Cochrane Database of Systematic Reviews, and DARE (Database of Abstracts of Reviews of Effects).

Professional Societies / Organizations:

American College of Osteopathic Internists
http://www.acoi.org/

American College of Physicians
http://www.acponline.org/

American Board of Internal Medicine
http://www.abim.org/

American Osteopathic Association / American Osteopathic Information Association
http://www.aoa-net.org/

Association of Program Directors in Internal Medicine
http://www.im.org/APDIM/

Centre for Evidence-Based Medicine
http://www.cebm.utoronto.ca/

Society of General Internal Medicine
http://www.sgim.org/

Other Resources:

National Guideline Clearinghouse (public resource for evidence-based clinical practice guidelines)
http://www.guideline.gov/

Medscape Internal Medicine Home
http://www.medscape.com/internalmedicinehome

Books held in the Lewis Library: A Select Bibliography

News Features

NLM Press Release: Internists to Write Patients Prescriptions for Information
http://www.nlm.nih.gov/news/press_releases/acpfreeserel04.html

ACP Foundation And National Library of Medicine launch National Consumer Information Program for Internists and their Patients—NEW ORLEANS (April 22, 2004) Think of doctors' prescriptions, and you probably think pills. But a new program of the American College of Physicians Foundation (ACPF) and the National Library of Medicine (NLM) encourages the nation's internists to write a prescription for a trustworthy Web site of free medical information, www.medlineplus.gov.

Please send any Comments/Suggestions concerning this site to: **Lisa Smith, Outreach Librarian**

For Technical Problems or Questions contact the **Webmaster**.
This page last updated: September 18, 2004
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3500 Camp Bowie Blvd. Fort Worth TX 76107
phone: 817-735-2070 or 1-800-687-9302
fax: 817-763-0225

http://library.hsc.unt.edu/intmed.cfm 9/18/2004

SEARCH RATIONALE

Systematic Reviews

Search strategies were developed based on the Internal Medicine residents' need for a manageable amount of high-quality, current literature. Strategies used the PubMed's systematic reviews filter. The criteria/limits below were applied sequentially until an appropriate number of citations was obtained.

- Topical MeSH headings + systematic reviews (subset)
- Human / English
- Entered into the system during the last 2 years
- Major Mesh headings
- No exploding MeSH heading/s
- Entered into the system during the last 1 year

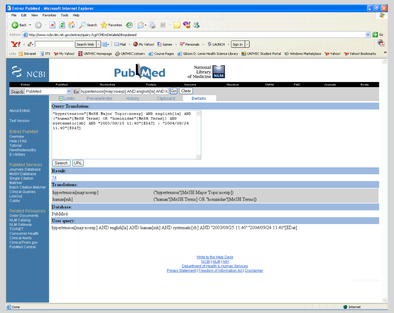
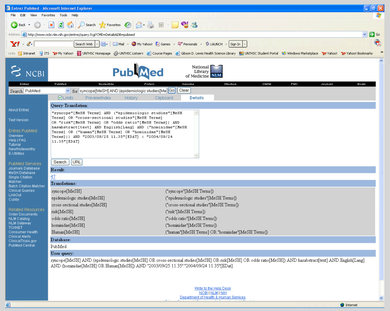
The total strategy was then translated into a URL with a relative date: http://www.ncbi.nlm.nih.gov/entrez/query/static/linking.html#RelativeDates so the search would be updated on a daily basis. An example of hypertension systematic reviews follows. The red text is the actual subject search.

http://www.ncbi.nlm.nih.gov:80/entrez/query.fcgi?CMD=search&term=hypertension[majr%3Anoexp]+AND+english[la]+AND+human[mh]+AND+systematic[sb]&db=PubMed&orig_db=PubMed&filters=on&pmfilter_EDatLimit=1+year

Clinical Queries

Search strategies were developed based on the Internal Medicine residents' need for a manageable amount of high-quality, current literature. Strategies used the research methodology filters from PubMed's clinical queries. The following criteria/limits were applied (in this order) to get a manageable retrieval for clinical queries: therapy, diagnosis, etiology or prognosis. The criteria/limits below were applied sequentially until an appropriate number of citations was obtained. **Specificity** was chosen for all topics.

- Topical MeSH headings + research methodology filter terms
- Human / English
- Entered into the system during the last 2 years
- Major Mesh headings
- No exploding MeSH heading/s
- Review
- Entered into the system during the last 1 year

The total strategy was then translated into a URL with a relative date: http://www.ncbi.nlm.nih.gov/entrez/query/static/linking.html#RelativeDates so the search would be updated on a daily basis. An example of syncope etiology (specific) follows. The red text is the actual subject search.

http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&term=syncope[MeSH]+AND+(epidemiologic+studies[MeSH]+OR+cross+sectional+studies[MeSH]+OR+risk[MeSH]+OR+odds+ratio[MeSH])+AND+hasabstract[text]+AND+English[Lang]+AND+(hominidae[MeSH]+OR+Human[MeSH])&db=PubMed&orig_db=PubMed&filters=on&pmfilter_EDatLimit=1+year