Enhancing Internal Medicine Residents' Information Access - Using Pubmed's Systematic Reviews, Clinical Queries and Customized Search Strategies

Lisa Smith
University of North Texas Health Science Center at Fort Worth, lisa.smith@unthsc.edu

Linda King
University of North Texas Health Science Center at Fort Worth

Follow this and additional works at: http://digitalcommons.hsc.unt.edu/fac

Part of the Library and Information Science Commons

Recommended Citation
http://digitalcommons.hsc.unt.edu/fac/16

This Article is brought to you for free and open access by the Conference Papers and Posters at UNTHC Scholarly Repository. It has been accepted for inclusion in Faculty by an authorized administrator of UNTHC Scholarly Repository. For more information, please contact Tom.Lyons@unthsc.edu.
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, evidence-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 succeeded 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 learners continue to participate in the Internal Medicine morning report process.

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.

- **Clinical decision making and to enhance the education process.**
- **A comparison of clinical queries and customized strategies revealed tailored searches were more relevant and succeeded for our user population.**

#### Systematic Reviews

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

The total strategy was then translated into a URL with a relative date:

```
```

### 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.

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```

### CUSTOMIZED SEARCH STRATEGIES

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

The total strategy was then translated into a URL with a relative date:

```
```