Evidence Based Dentistry

Clinical decisions and search for evidence

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On what do we base our clinical decisions when we're uncertain?

- on reasoning?
- on anecdotes?
- on own clinical practice?
- on press cuttings?
- on expert opinions?
- on cost minimization?
 - on critically appraised new information?



A patho-physiological approach: this makes sense...

- A patho-physiological approach
- An expert / "how I was trained" approach:
 I learned this worked / didn't work...

- A patho-physiological approach
- An expert / "how I was trained" approach
- An anecdotal approach: this worked / didn't work last time | tried...

Clinical experience = clinical knowledge?

"The expression "it works in my hands" seems to serve as a standard of validity for some people, despite the fact that a positive clinical response may be obtained either because of, in spite of, or irrespective of the treatment rendered."

(Charles Greene, 1976)

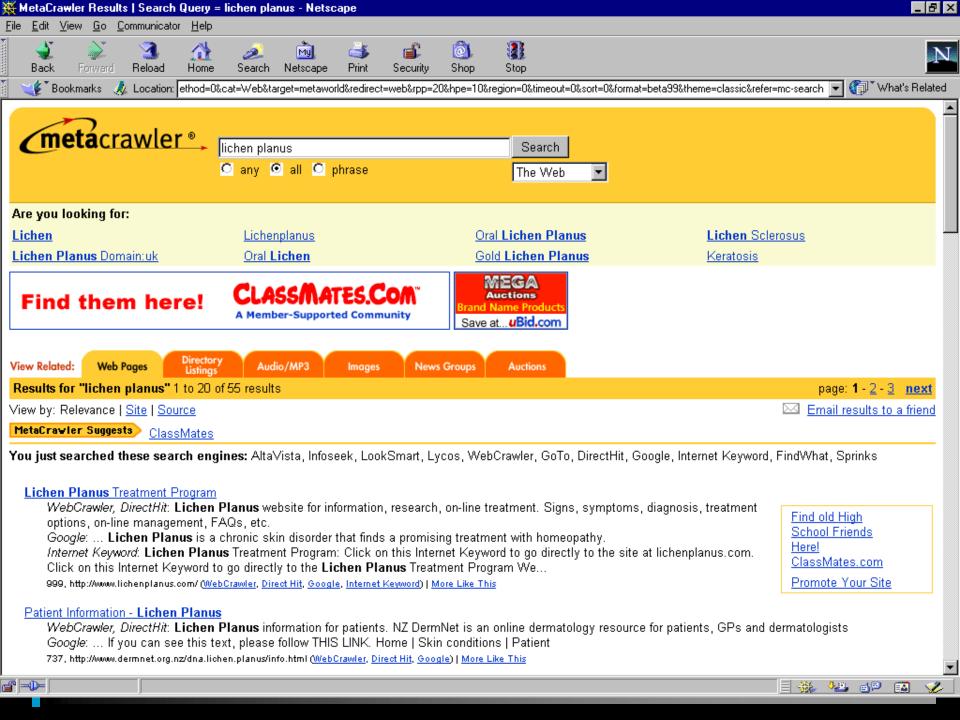
- A patho-physiological approach
- An expert / "how I was trained" approach
- An anecdotal approach
- A consultant approach: maybe I can ask a few colleagues I work with....

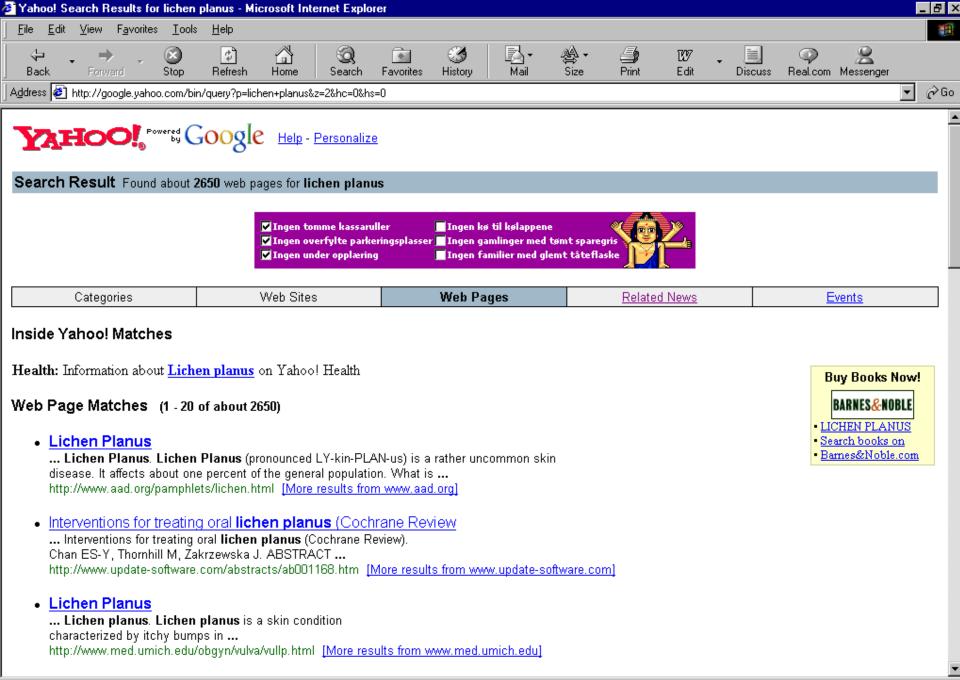
- A patho-physiological approach
- An expert / "how I was trained" approach
- An anecdotal approach
- A consultant approach
- A textbook approach:
 - Are my textbooks and articles updated?
 - Can I find them?
 - Do they give strong support for decisions?

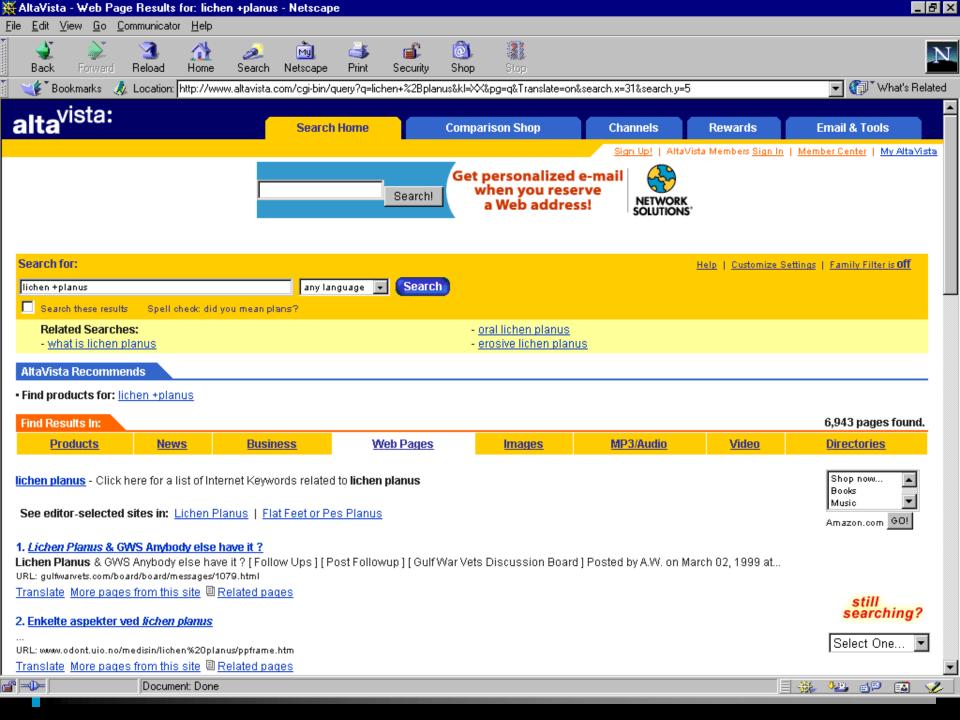
- A patho-physiological approach
- An expert/how I was trained approach
- An anecdotal approach
- A consultant approach
- A textbook approach
- Is a library nearby?

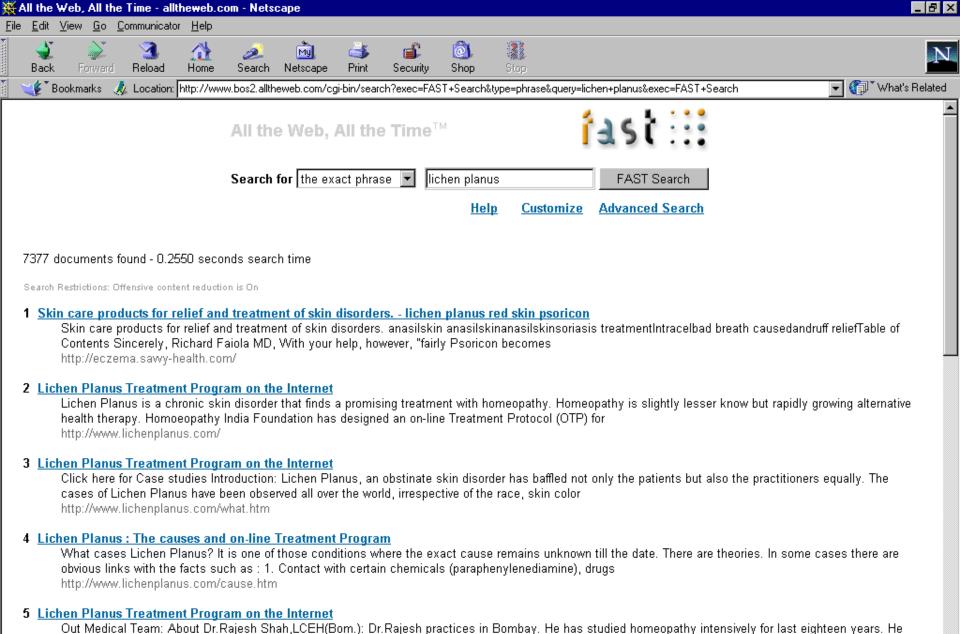
- A patho-physiological approach
- An expert / "how I was trained" approach
- An anecdotal approach
- A consultant approach
- A textbook approach
- Is a library nearby?
- Can answers be found on the Internet?

General search









http://www.lichenplanus.com/team.htm

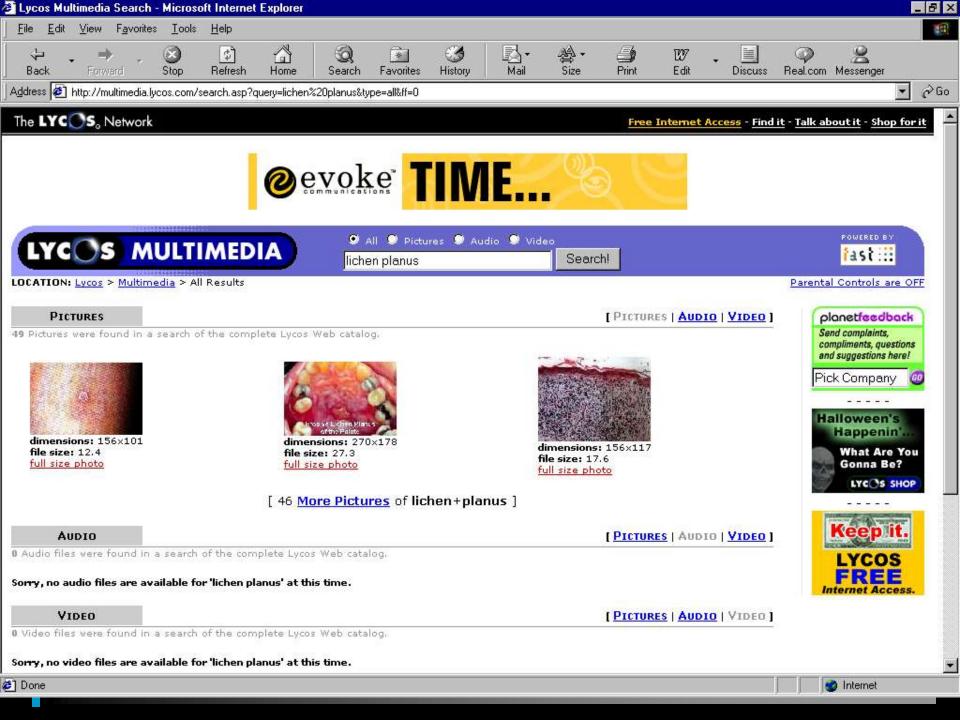
has vast clinical experience. Dr. Rajesh is an internationally acclaimed teacher and clinician. His generous











Information <u>is not</u> knowledge <u>is</u> not clinical competence!

- General searching often non-specific
- Takes much time
- Quality of information varies greatly

Is this as good as it gets?

- General search
- Medical databases

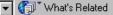
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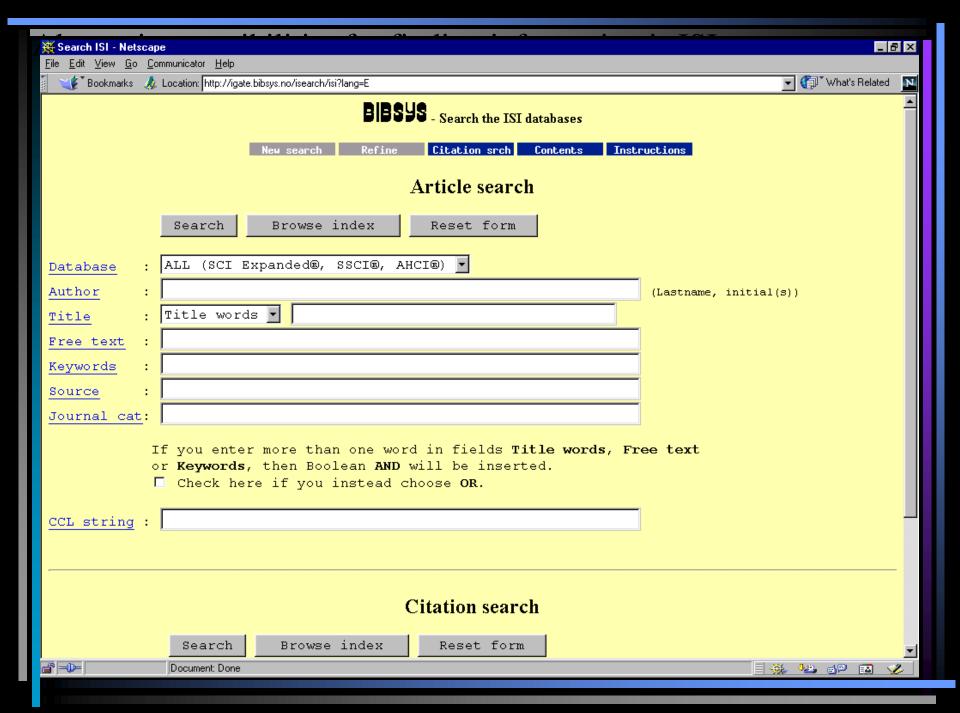


Choose a database



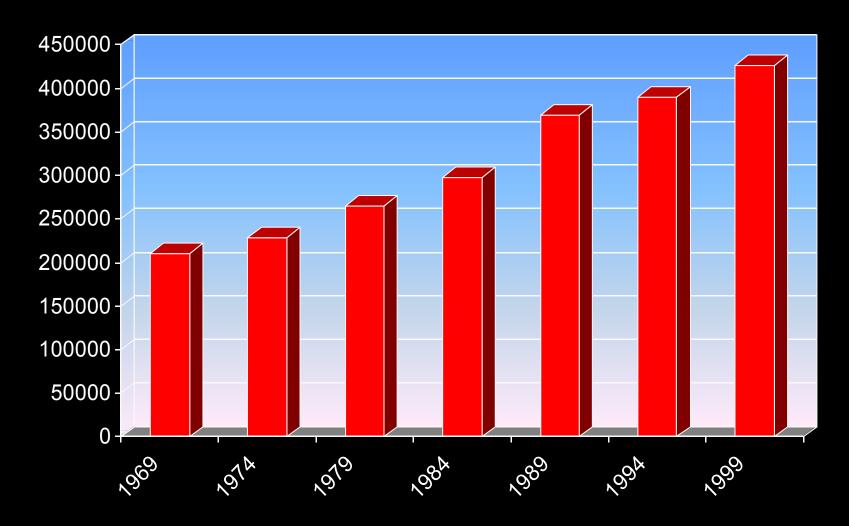
- -- To begin a search, click the name of the desired database.
- -- To get more information about a database, click the information icon:
- -- Logoff
- Journals@Ovid Full Text September 14, 1999
- EBM Reviews Best Evidence 1991 to July/August 1999
- 8 EBM Reviews - Cochrane Database of Systematic Reviews 2nd Quarter 1999
- <u> 1</u> -CINAHL 1982 to August 1999
- Ħ EMBASE 1988 to 1999 Week 35
- **H** EMBASE 1980 to 1999 Week 35
- 且 **EMBASE** 1980 to 1987
- Ħ Full Text: Core Biomedical Collection 1993 to September 1999 Week 1
- 且 Full Text: Nursing Collection 1995 to August 1999
- 1 Full Text: Mental Health Collection 1995 to July 1999
- **II** -Medline 1996 to November 1999 Week 1
- П Medline 1966 to 1995
- <u> 1</u> -Medline 1991 to 1995
- Ħ Medline 1985 to 1990
- Ħ
- Medline 1976 to 1984
- Ħ Medline 1966 to 1975
- 🗖 Medline November 1999 Week 1
- Medline 1966 to November 1999 Week 1

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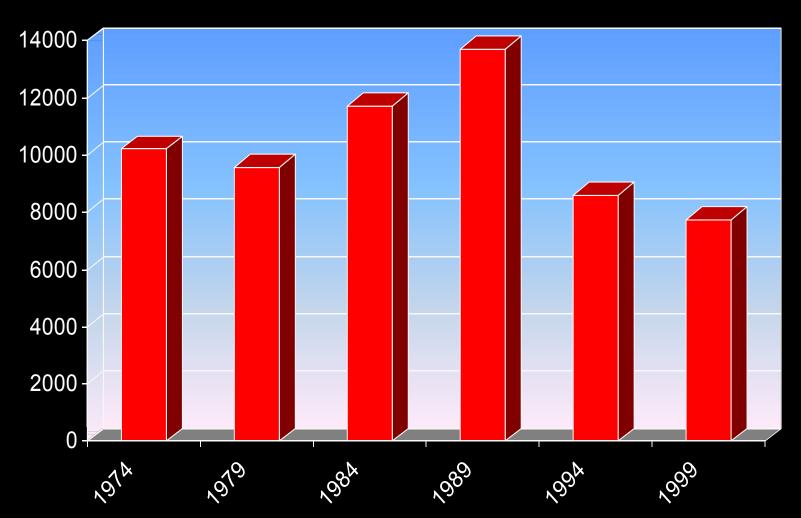
- General search
- Medical databases
 - -Medline

Publications in Medline

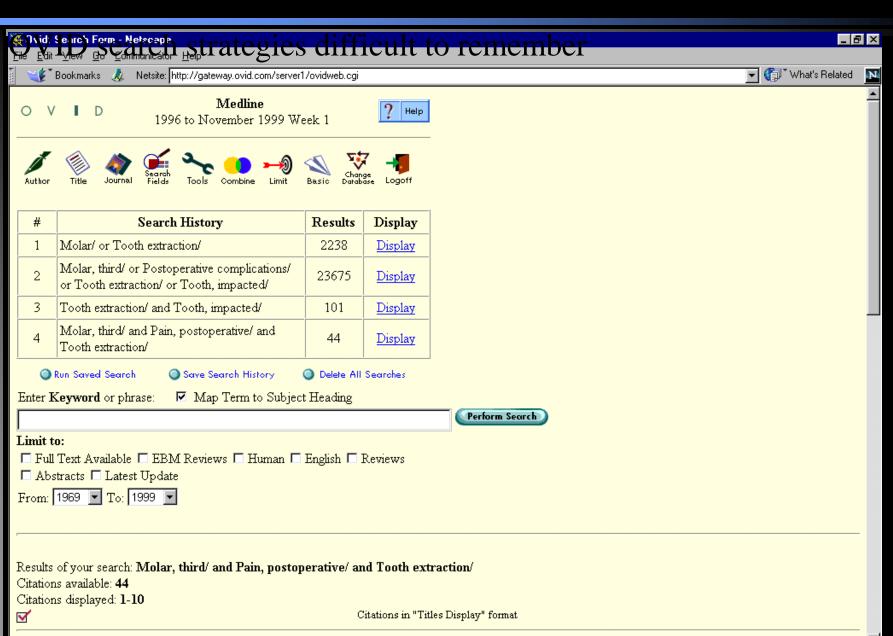


MEDLINE indexes ~4000 publications - a distinct minority

Dental Subset of Medline









UNITED STATES National Library of Medicine

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Library Services Research Programs New & Noteworthy

Search MEDLINE: PubMed and Internet Grateful Med

For consumer health information, consider using **MEDLINE** plass. Health consumers are encouraged to discuss search results with their health care professional.

NLM offers PubMed and Internet Grateful Med, two free systems to search MEDLINE. They both:

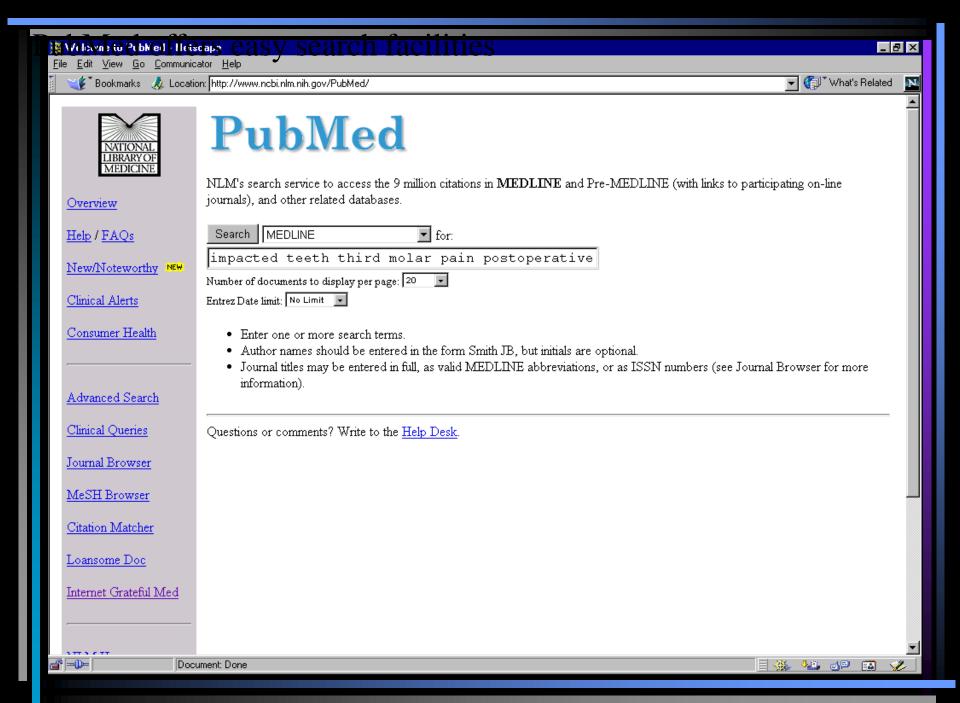
- Provide an easy way to search the 11 million references and abstracts in the MEDLINE database;
- . Use PubMed's retrieval engine to link to about 400 journals for full text of articles (some publishers may require a subscription) and provide pre-computed sets of relevant MEDLINE articles;
- . Offer NLM's Medical Subject Headings for searching, and
- Use Loansome Doc for document delivery services (there may be local charges).

PubMed

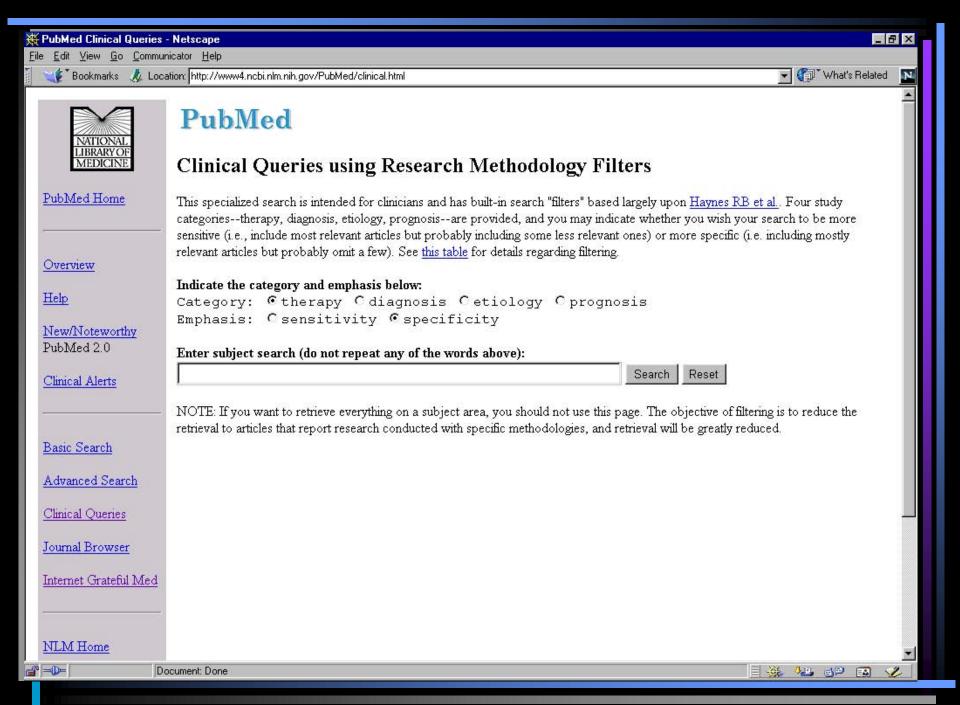
Internet Grateful Med

- · Also has links to molecular biology databases of DNA/protein sequences and 3-D structure data.
- Also provides access to other NLM databases on AIDS, bioethics, history of medicine, toxicology, health services research, and other topics.

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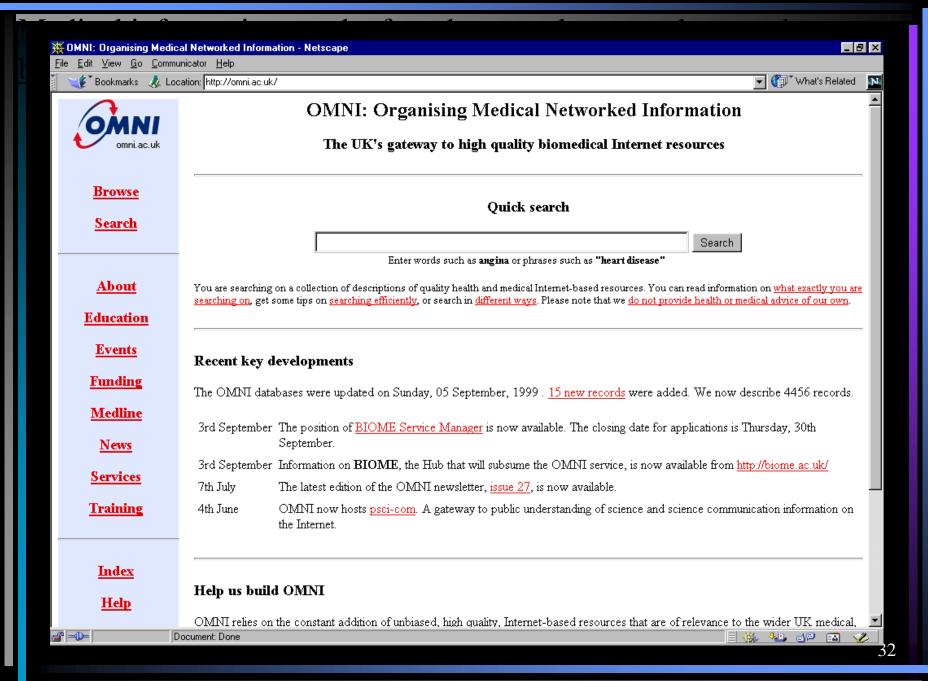
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- Quality of information varies greatly
- Can't remember how to search effectively
 - (Most) original articles can't be retrieved
- Not enough time anyway

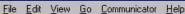
Is this as good as it gets?

- General search
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 - -Medline

 - Embase, Cinahl
- Medical metasite searching





















































BioSites



The Megasite Project: A Metasite Comparing Health Information Megasites

& Search Engines



P. F. Anderson, Nancy Allee, Jean Chung, Brian Westra, University of Michigan















Comparisons

Methodology

Survey

Criteria

Best of the Best

Unique Features

Site Map

Bibliography

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1999 Update!: New Search Test



MMRL













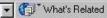






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 - Medical metasite searches on oral health issues are often superficial
 - Metasite searching often too "textbook" 34

- General search
- Medical databases
 - -Medline

 - Embase, Cinahl
- Medical metasite searching
- Cochrane Library

Status of current Cochrane Oral Health Group reviews - 7.2001

- 5 systematic reviews
- 22 protocols
- 4 protocols out with referees
- 20 titles registered

18/01/2009

- General search
- Medical databases
 - -Medline

 - Embase, Cinahl
- Medical metasite searching
- Cochrane Library
- Primary publications

