

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?



Programmed approaches when we're uncertain

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

Programmed approaches when we're uncertain

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

Programmed approaches when we're uncertain

- A patho-physiological approach
- An expert / “how I was trained” approach
- An anecdotal approach: this worked / didn't work last time I 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)

Programmed approaches when we're uncertain

- 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....**

Programmed approaches when we're uncertain

- 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?

Programmed approaches when we're uncertain

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

Programmed approaches when we're uncertain

- 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?

Can answers be found on the Internet? "Web-medicine"

- General search



lichen planus

Search

 any all phrase

The Web

Are you looking for:

[Lichen](#)[Lichenplanus](#)[Oral Lichen Planus](#)[Lichen Sclerosus](#)[Lichen Planus Domain:uk](#)[Oral Lichen](#)[Gold Lichen Planus](#)[Keratosis](#)

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Results for "lichen planus" 1 to 20 of 55 results

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You just searched these search engines: AltaVista, Infoseek, LookSmart, Lycos, WebCrawler, GoTo, DirectHit, Google, Internet Keyword, FindWhat, Sprinks

[Lichen Planus Treatment Program](#)

WebCrawler, DirectHit: **Lichen Planus** website for information, research, on-line treatment. Signs, symptoms, diagnosis, treatment options, on-line management, FAQs, etc.

Google: ... **Lichen Planus** is a chronic skin disorder that finds a promising treatment with homeopathy.

Internet Keyword: **Lichen Planus** Treatment Program: Click on this Internet Keyword to go directly to the site at lichenplanus.com. Click on this Internet Keyword to go directly to the **Lichen Planus** Treatment Program We...

999, <http://www.lichenplanus.com/> ([WebCrawler](#), [Direct Hit](#), [Google](#), [Internet Keyword](#)) | [More Like This](#)

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[Patient Information - Lichen Planus](#)

WebCrawler, DirectHit: **Lichen Planus** information for patients. NZ DermNet is an online dermatology resource for patients, GPs and dermatologists

Google: ... If you can see this text, please follow THIS LINK. Home | Skin conditions | Patient

737, <http://www.dermnet.org.nz/dna.lichen.planus/info.html> ([WebCrawler](#), [Direct Hit](#), [Google](#)) | [More Like This](#)

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Address http://google.yahoo.com/bin/query?p=lichen+planus&z=2&hc=0&hs=0

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Search Result Found about **2650** web pages for **lichen planus**

<input checked="" type="checkbox"/> Ingen tomme kassaruller	<input type="checkbox"/> Ingen kø til kølappene	
<input checked="" type="checkbox"/> Ingen overfylte parkeringsplasser	<input type="checkbox"/> Ingen gamlinger med tømt sparegris	
<input checked="" type="checkbox"/> Ingen under opplæring	<input type="checkbox"/> Ingen familier med glemt tåteflaske	

Categories	Web Sites	Web Pages	Related News	Events
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Inside Yahoo! Matches

Health: Information about [Lichen planus](#) on Yahoo! Health

Web Page Matches (1 - 20 of about 2650)

- [Lichen Planus](#)
 ... **Lichen Planus**. **Lichen Planus** (pronounced LY-kin-PLAN-us) is a rather uncommon skin disease. It affects about one percent of the general population. What is ...
<http://www.aad.org/pamphlets/lichen.html> [\[More results from www.aad.org\]](#)
- [Interventions for treating oral lichen planus \(Cochrane Review\)](#)
 ... Interventions for treating oral **lichen planus** (Cochrane Review).
 Chan ES-Y, Thornhill M, Zakrzewska J. ABSTRACT ...
<http://www.update-software.com/abstracts/ab001168.htm> [\[More results from www.update-software.com\]](#)
- [Lichen Planus](#)
 ... **Lichen planus**. **Lichen planus** is a skin condition characterized by itchy bumps in ...
<http://www.med.umich.edu/obgyn/vulva/vullp.html> [\[More results from www.med.umich.edu\]](#)

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Bookmarks Location: <http://www.altavista.com/cgi-bin/query?q=lichen+%2Bplanus&kl=XX&pg=q&Translate=on&search.x=31&search.y=5>

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Lichen Planus & GWS Anybody else have it ? [Follow Ups] [Post Followup] [Gulf War Vets Discussion Board] Posted by A.W. on March 02, 1999 at...

URL: gulfwarvets.com/board/board/messages/1079.html

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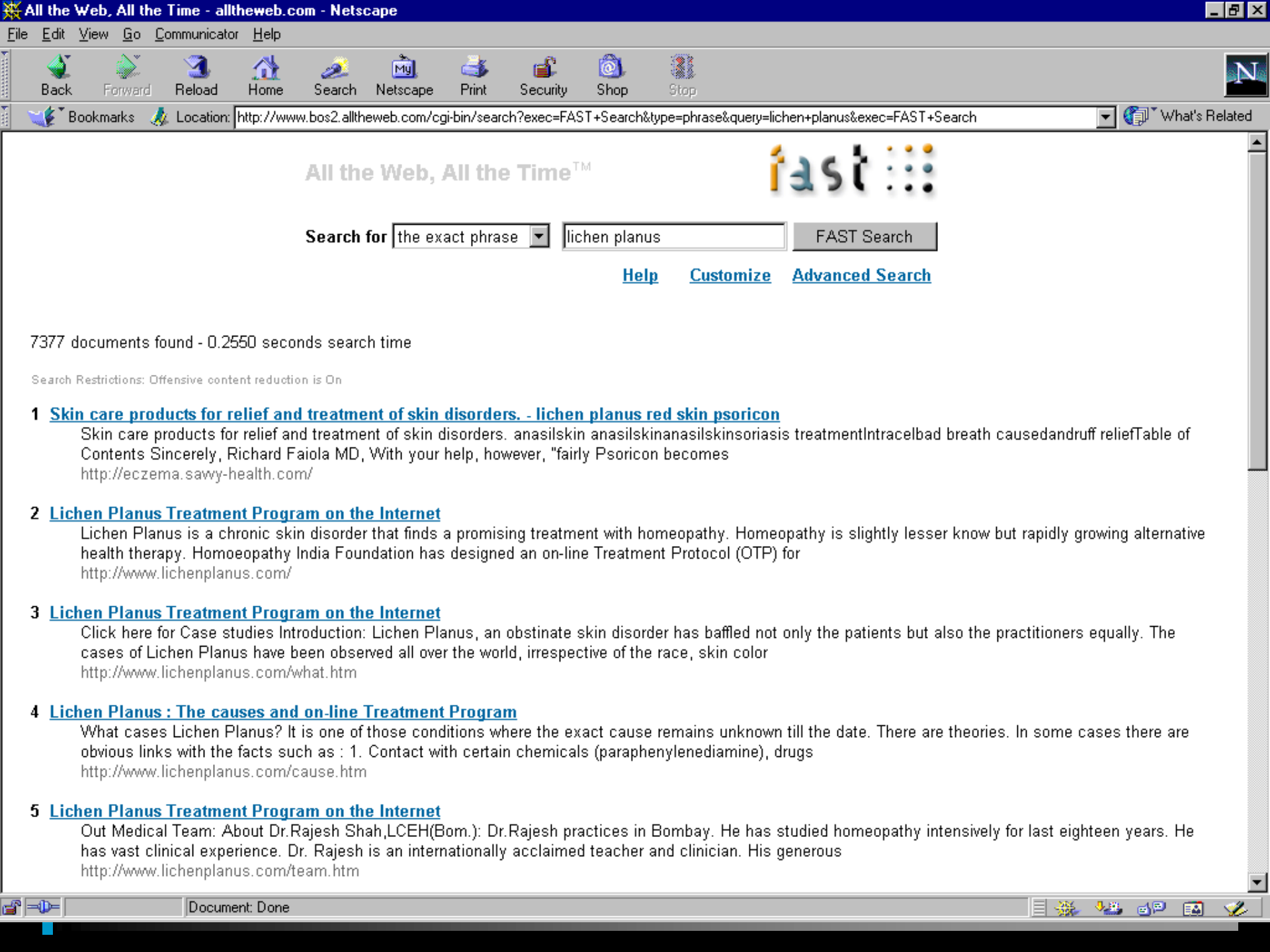
2. [Enkelte aspekter ved lichen planus](#)

...
 URL: www.odont.uio.no/medisin/lichen%20planus/ppframe.htm

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Search Restrictions: Offensive content reduction is On

- [Skin care products for relief and treatment of skin disorders. - lichen planus red skin psoricon](#)**
Skin care products for relief and treatment of skin disorders. anasilskin anasilskinanasilskinsoriasis treatmentIntracelbad breath causedandruff reliefTable of Contents Sincerely, Richard Faiola MD, With your help, however, "fairly Psoricon becomes
<http://eczema.sawy-health.com/>
- [Lichen Planus Treatment Program on the Internet](#)**
Lichen Planus is a chronic skin disorder that finds a promising treatment with homeopathy. Homeopathy is slightly lesser know but rapidly growing alternative health therapy. Homoeopathy India Foundation has designed an on-line Treatment Protocol (OTP) for
<http://www.lichenplanus.com/>
- [Lichen Planus Treatment Program on the Internet](#)**
Click here for Case studies Introduction: Lichen Planus, an obstinate skin disorder has baffled not only the patients but also the practitioners equally. The cases of Lichen Planus have been observed all over the world, irrespective of the race, skin color
<http://www.lichenplanus.com/what.htm>
- [Lichen Planus : The causes and on-line Treatment Program](#)**
What cases Lichen Planus? It is one of those conditions where the exact cause remains unknown till the date. There are theories. In some cases there are obvious links with the facts such as : 1. Contact with certain chemicals (paraphenylenediamine), drugs
<http://www.lichenplanus.com/cause.htm>
- [Lichen Planus Treatment Program on the Internet](#)**
Out Medical Team: About Dr.Rajesh Shah,LCEH(Bom.): Dr.Rajesh practices in Bombay. He has studied homeopathy intensively for last eighteen years. He has vast clinical experience. Dr. Rajesh is an internationally acclaimed teacher and clinician. His generous
<http://www.lichenplanus.com/team.htm>



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lichen planus

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file size: 27.3
[full size photo](#)



dimensions: 156x117
file size: 17.6
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[46 [More Pictures](#) of lichen+planus]

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What Are You Gonna Be?
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Information is not knowledge is not clinical competence!

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

Is this as good as it gets?

Can answers be found on the Internet? "Web-medicine"


- General search
- Medical databases








OVID

Choose a database



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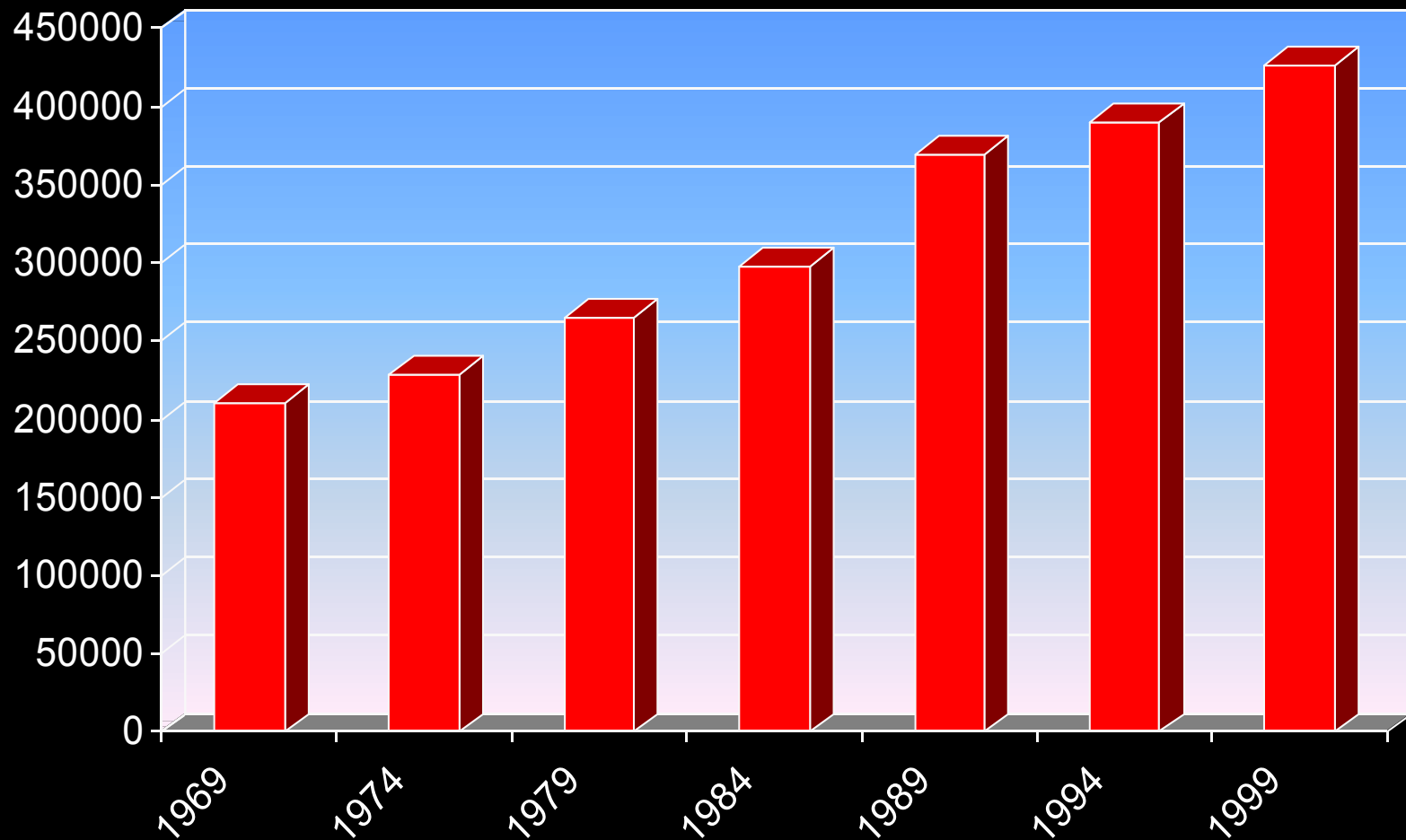
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Can answers be found on the Internet? "Web-medicine"

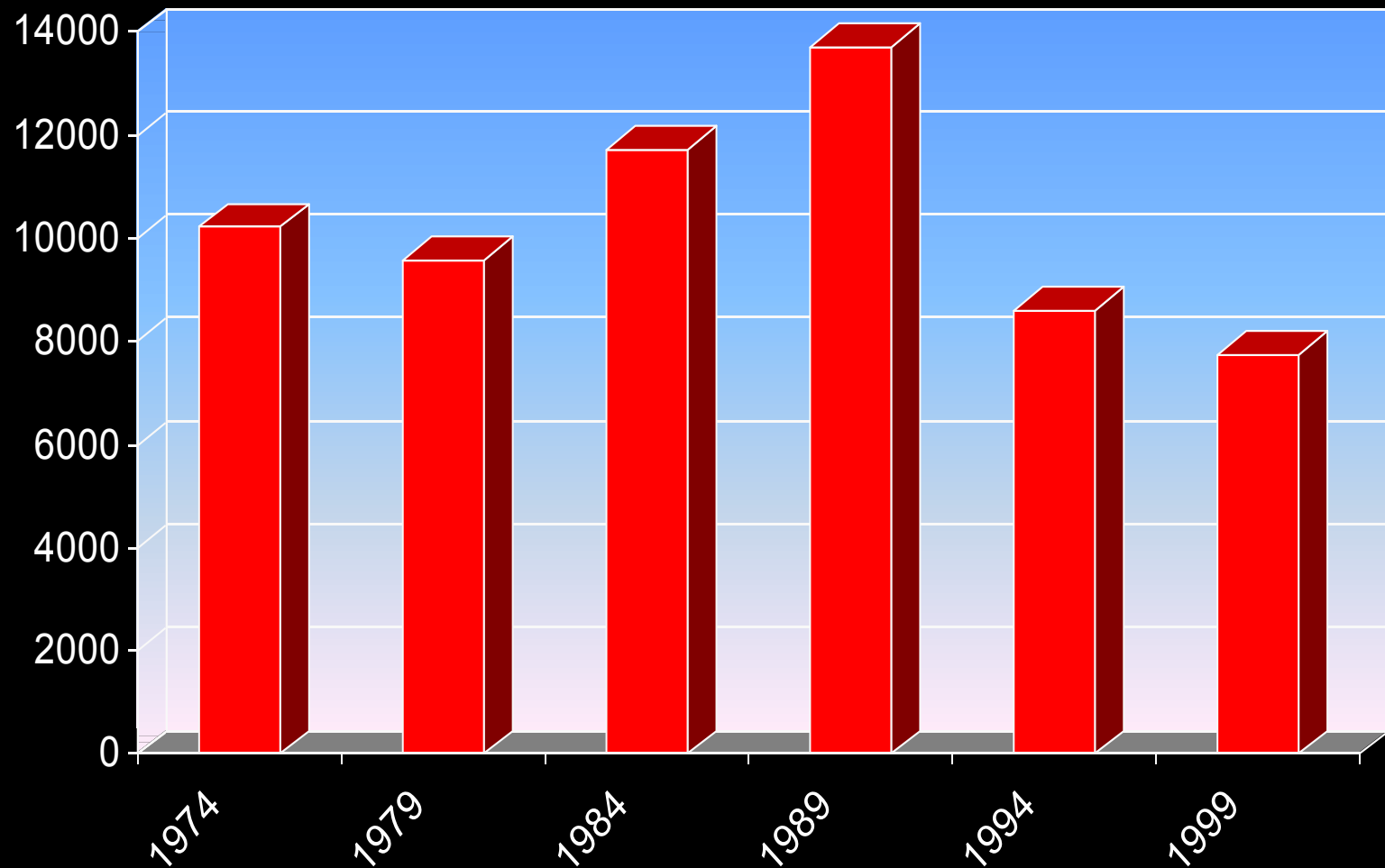
- General search
- Medical databases
 - Medline

Publications in Medline



MEDLINE indexes ~4000 publications - a distinct minority

Dental Subset of Medline





Dr Felix's Free MEDLINE® Page

Links to web sites where you can search MEDLINE® for free.

Updated 26th October 1998

The Original And Best!

Welcome to our permanent location on the [Docnet site](#). Those outside Europe might like to try our [US Mirror Site](#) instead



CAVEAT: Do we really know what we're getting for free? Some of these sites only provide free access to certain parts of the vast MEDLINE database. Some permit quite detailed searching, others simple keywords only. Some have usage restrictions, though so far there have been no problems accessing US-only sites from the UK, France and elsewhere.

There are currently two evaluation projects under way, under the auspices of [NAHRS](#) in the USA and [OMNI](#) in the UK. More details as they become available.

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Medline

1996 to November 1999 Week 1

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1	Molar/ or Tooth extraction/	2238	Display
2	Molar, third/ or Postoperative complications/ or Tooth extraction/ or Tooth, impacted/	23675	Display
3	Tooth extraction/ and Tooth, impacted/	101	Display
4	Molar, third/ and Pain, postoperative/ and Tooth extraction/	44	Display

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Citations in "Titles Display" format



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PubMed

- Also has links to molecular biology databases of DNA/protein sequences and 3-D structure data.

Internet Grateful Med

- Also provides access to other NLM databases on AIDS, bioethics, history of medicine, toxicology, health services research, and other topics.

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Search for:

Number of documents to display per page:

Entrez Date limit:

- Enter one or more search terms.
- Author names should be entered in the form Smith JB, but initials are optional.
- Journal titles may be entered in full, as valid MEDLINE abbreviations, or as ISSN numbers (see Journal Browser for more information).

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PubMed details are the "see related articles" & "clinical queries" possibility

PubMed MEDLINE query - Netscape
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Location: lm.nih.gov/htbin-post/Entrez/query?form=4&db=m&term=impacted+teeth+third+molar+pain+postoperative&dispmax=20&relentrezdate=No+Limit What's Related

NCBI PubMed PubMed QUERY PubMed ?

Details impacted teeth third molar pain postoper. Search Clear

Docs Per Page: 20 Entrez Date limit: No Limit

citations 1-20 displayed (out of 152 found), page 1 of 8

Display Abstract report for the articles selected (default all).
Order documents on this page through Loansome Doc

- [Dionne RA](#) [See Related Articles]
Additive analgesic effects of oxycodone and ibuprofen in the oral surgery model.
J Oral Maxillofac Surg. 1999 Jun;57(6):673-8.
PMID: 10368091; UI: 99294557.
- [Zacharias M, et al](#) [See Related Articles]
Effectiveness of preoperative analgesics on postoperative dental pain: a study.
Anesth Prog. 1996 Summer;43(3):92-6.
PMID: 10323113; UI: 99256489.
- [Bouloux GF, et al](#) [See Related Articles]
Bupivacaine versus lidocaine for third molar surgery: a double-blind, randomized, crossover study.
J Oral Maxillofac Surg. 1999 May;57(5):510-4; discussion 515.
PMID: 10319823; UI: 99251541.
- [Wenzel A, et al](#) [See Related Articles]
Evaluation of a new radiographic technique: outcome following removal of mandibular third molars.
Dentomaxillofac Radiol. 1998 Sep;27(5):264-9.
PMID: 9879214; UI: 99095287.
- [Bastian H, et al](#) [See Related Articles]
Comparative study of pain control by cryotherapy of exposed bone following extraction of wisdom teeth.

Document: Done



PubMed

Clinical Queries using Research Methodology Filters

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This specialized search is intended for clinicians and has built-in search "filters" based largely upon [Haynes RB et al.](#) Four study categories--therapy, diagnosis, etiology, prognosis--are provided, and you may indicate whether you wish your search to be more sensitive (i.e., include most relevant articles but probably including some less relevant ones) or more specific (i.e. including mostly relevant articles but probably omit a few). See [this table](#) for details regarding filtering.

Indicate the category and emphasis below:

Category: therapy diagnosis etiology prognosis

Emphasis: sensitivity specificity

Enter subject search (do not repeat any of the words above):

NOTE: If you want to retrieve everything on a subject area, you should not use this page. The objective of filtering is to reduce the retrieval to articles that report research conducted with specific methodologies, and retrieval will be greatly reduced.

Information is not knowledge is not clinical competence!

- General searching often non-specific
- Takes much time
- 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?

Can answers be found on the Internet? "Web-medicine"

- General search
- Medical databases
 - Medline
 - ISI
 - Embase, Cinahl
- Medical metasite searching



OMNI: Organising Medical Networked Information

The UK's gateway to high quality biomedical Internet resources

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Quick search

Enter words such as **angina** or phrases such as **"heart disease"**

You are searching on a collection of descriptions of quality health and medical Internet-based resources. You can read information on [what exactly you are searching on](#), get some tips on [searching efficiently](#), or search in [different ways](#). Please note that we [do not provide health or medical advice of our own](#).

Recent key developments

The OMNI databases were updated on Sunday, 05 September, 1999. [15 new records](#) were added. We now describe 4456 records.

3rd September The position of [BIOME Service Manager](#) is now available. The closing date for applications is Thursday, 30th September.

3rd September Information on [BIOME](#), the Hub that will subsume the OMNI service, is now available from <http://biome.ac.uk/>

7th July The latest edition of the OMNI newsletter, [issue 27](#), is now available.

4th June OMNI now hosts [psci-com](#). A gateway to public understanding of science and science communication information on the Internet.

Help us build OMNI

OMNI relies on the constant addition of unbiased, high quality, Internet-based resources that are of relevance to the wider UK medical.



The Megasite Project:
A Metasite Comparing Health Information Megasites
& Search Engines



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



Abstract Comparisons

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1999 Update!: New Search Test



Click here for Healthfinder



Information is not knowledge is not clinical competence!

- General searching often non-specific
- Takes much time
- Quality of information varies greatly
- **Can't remember how to search effectively**
- (Most) original articles can't be retrieved
- Not enough time anyway
- Medical metasite searches on oral health issues are often superficial
- **Metasite searching often too "textbook"**

Can answers be found on the Internet? "Web-medicine"

- General search
- Medical databases
 - Medline
 - ISI
 - 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

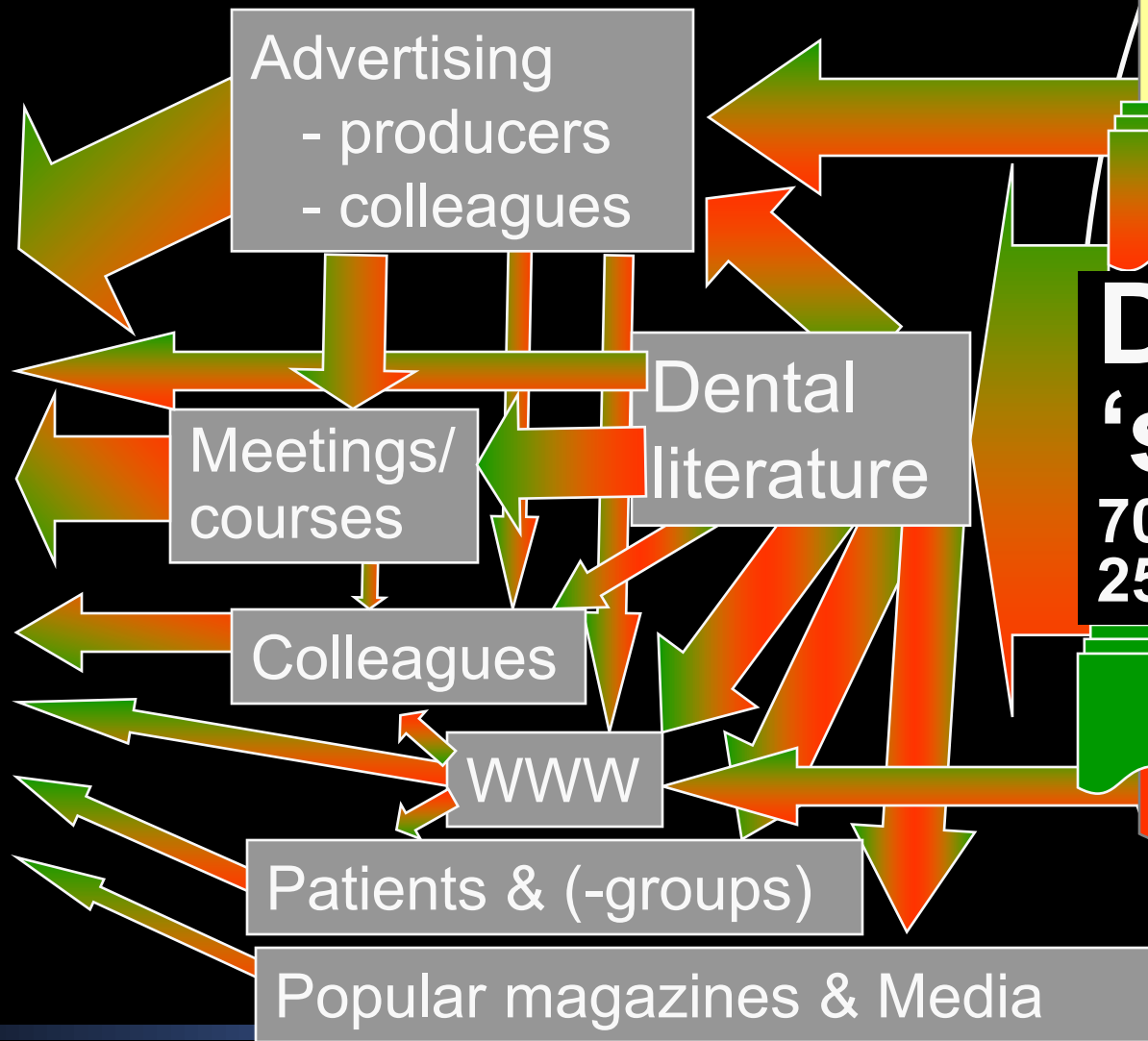
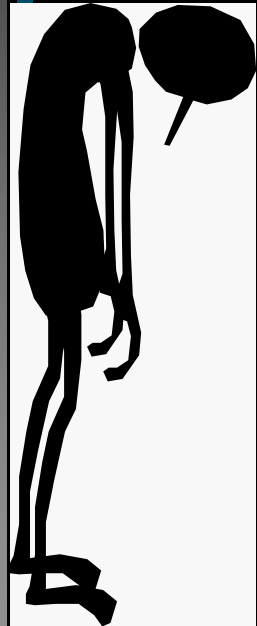
20 titles registered

Can answers be found on the Internet? "Web-medicine"

- General search
- Medical databases
 - Medline
 - ISI
 - Embase, Cinahl
- Medical metasite searching
- Cochrane Library
- Primary publications

Dentists' environment

An information overload



Dental 'science'
700 journals:
25 000 articles/y



Dentists' environment

Apply the EBD filter

E
B
D
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t
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r

Advertising
- producers
- colleagues

Meetings/
courses

Colleagues

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Patients & (-groups)

Popular magazines & Media

Dental
literature

Dental 'science'

700 journals:
25 000 articles/y

