

Accessing the Chiropractic Literature – *An easy process*

ACC-RAC, March 19, 2010



Facilitators:

Anne Taylor-Vaisey MLS (CMCC)

Phyllis Harvey MLn (Palmer at Davenport)

Alex Lee DC (CMCC)



The workshop:

What the ACC-RAC program says ...

- Audience –
clinicians, educators, researchers
- Databases highlighted –
 - Index to Chiropractic Literature (ICL)
 - PubMed
- Skills-
 - Literature searching
 - Locating free full text
 - Keeping up to date



Introductions and Objectives

- Who we are
- Who you are
(clinicians? educators? researchers?)
- Why did you decide to attend this workshop?
- What do you want to learn from us?



Scenario:

A new dental graduate opens an office across the street from your clinic. Upon your first meeting, the dentist seems skeptical about whether chiropractors and dentists can co-manage TMJ disorders. You start treating his/her patients. As a way of building an interprofessional relationship you would like to publish a case report with the dentist.

You ask yourself:

Has anyone written about chiropractors and dentists co-managing TMJ disorders?

What do I need to know about interprofessional collaboration?



Exercise: Finding the right search language

Read the scenario on the worksheet
and do the following:

- Identify the searchable questions pertinent to the case (e.g. patient population, clinical condition, treatment, issue, skill)
- Identify the databases and Web resources appropriate for this case
- List the search words/phrases you think would retrieve the best search results



The search process - PubMed

- Start with PubMed's online subject index to identify relevant concepts (e.g. TMJ, dentists, chiropractors ...)
- PubMed's subject index is called MeSH (**M**edical **S**ubject **H**eadings)
- Find MeSH on the home page, or as a pull-down menu on the search page

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NLM/NCBI H1N1 Flu Resources:

Newest H1N1 influenza sequences

Submit flu sequences to GenBank

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FLU.GOV

Know what to do about the flu.

VISIT FLU.GOV

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Search MeSH for temporomandibular

Go

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Details

("Temporomandibular Joint Disorders"[Mesh] OR "Temporomandibular Joint Dysfunction Syndrome"[Mesh])

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All: 18

Items 18 of 18

One page.

☒ 1: [Temporomandibular Joint Disorders](#)[Links](#)

A variety of conditions affecting the anatomic and functional aspects of the temporomandibular joint. Factors contributing to the complexity of temporomandibular diseases are the complexity of the joint itself, the complexity of the symptoms, and the complexity of the diagnostic procedures. Areas which account for referred pain to the joint and the difficulties in applying traditional diagnostic procedures to temporomandibular joint pathology where tissue is rarely obtained and x-rays are often inadequate or nonspecific. Common diseases are developmental abnormalities, trauma, subluxation, luxation, arthritis, and neoplasia. (From Thoma's Oral Pathology, 6th ed, pp577-600)

Year introduced: 1997

☐ 2: [Temporomandibular Joint Disk](#)[Links](#)

A plate of fibrous tissue that divides the temporomandibular joint into an upper and lower cavity. The disk is attached to the articular capsule and moves forward with the condyle in free opening and protrusion. (Boucher's Clinical Dental Terminology, 4th ed, p92)

Year introduced: 1997

☒ 3: [Temporomandibular Joint Dysfunction Syndrome](#)[Links](#)

A symptom complex consisting of pain, muscle tenderness, clicking in the joint, and limitation or alteration of mandibular movement. The symptoms are subjective and manifested primarily in the masticatory muscles rather than the temporomandibular joint itself. Etiologic factors are uncertain but include occlusal disharmony and psychophysiologic factors.

Year introduced: 1997

☐ 4: [Temporomandibular Joint](#)[Links](#)

An articulation between the condyle of the mandible and the articular tubercle of the temporal bone.

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1. Blum CL.

Cranio. 2004 Jan;22(1):1-3. No abstract available.

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☐ [Chiropractic treatment of temporomandibular disorders using the activator adjusting instrument: a prospective case series.](#)

2. Devroey JW, Long CR, Zeitler DL, Schaeffer W.

J Manipulative Physiol Ther. 2003 Sep;26(7):421-5.

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4. Chinappi AS Jr, Getzoff H.

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☐ [A new management model for treating structural-based disorders: dental orthopedic and chiropractic co-treatment.](#)

5. Chinappi AS Jr, Getzoff H.

J Manipulative Physiol Ther. 1994 Nov-Dec;17(9):614-9. No abstract available.

PMID: 7884333 [PubMed - indexed for MEDLINE]

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☐ [Multidisciplinary management of the cervicocranial and temporomandibular disorder: appreciation of the whole Cube--clinical case. Part II.](#)

6. Skaggs C, Wiele G.

Funct Orthod. 1994 Mar-Apr;11(2):31-40. No abstract available.

PMID: 9863429 [PubMed - indexed for MEDLINE]

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☐ [\[Postural examination in daily occlusodontology\]](#)

7. Serviere F.

Cah Prothese. 1989 Mar;(65):36-42. French.

PMID: 2636023 [PubMed - indexed for MEDLINE]

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Chiropractic/dental cotreatment of lumbosacral pain with temporomandibular joint involvement.

Chinappi AS Jr, Getzoff H.

OBJECTIVE: To demonstrate the concept of integrated dental orthopedic and cranio-chiropractic care for treating structural disorders of the jaw, neck and spine. **CLINICAL FEATURES:** A 33-yr-old woman sought chiropractic care for centralized lumbosacral pain that had persisted for 3 months. She exhibited pain on lumbopelvic extension and marked limitations on lumbopelvic flexion. In addition, cervical rotation and cranial sutural motion in the right malar maxillary suture were restricted. The left temporal mandibular joint also was limited in translation. Based on initial chiropractic sacro-occipital technique, she was diagnosed with Category III lumbopelvic dysfunction. X-ray examination revealed a lumbosacral angle of 39 degrees, with sacral displacement posterior to the weight-bearing line. In conjunction with the beginning of chiropractic care, she was encouraged to seek dental-orthodontic evaluation. After 30 months of chiropractic treatment, she was still experiencing some lower back pain and limited improvement. She finally agreed to see the orthodontist. Orthodontic evaluation revealed a Class I malocclusion with significant loss of vertical dimension, characteristic of bilateral posterior bite collapse. **INTERVENTION AND OUTCOME:** Initial orthodontic treatment began in September 1991 and was followed by restorative dentistry to replace the missing teeth. This cotreatment approach, which integrated dental orthopedic and craniochiropractic care, ameliorated the pain and improved head, jaw, neck and back function. **CONCLUSION:** The position of the jaw, head and vertebral column, including the lumbar region, are intricately linked. Orthodontic treatment improved the position of the mandible, which in turn enabled the body to respond to chiropractic care.

PMID: 8976480 [PubMed - indexed for MEDLINE]

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Publication Types:

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MeSH Terms:

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Temporomandibular Joint Disorders/therapy*

Vertical Dimension

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Review of PubMed Highlights

<http://pubmed.gov>

- *Tools* include Single Citation Matcher, Clinical Queries
- *Resources* include MeSH Database, Journals Database, LinkOut
- Search features include Related Articles
- Almost 20 million life sciences citations
- Portal to free health resources (e.g. MedlinePlus)
- Many free articles (e.g. PubMed Central)



The search process - ICL

- Start with ICL's online subject index to identify relevant terms (e.g. TMJ, dentists ...)
- ICL's subject index is ChiroSH (Chiropractic Subject Headings)
- Search the Online Subject Index, or choose Subject Keyword from the pull-down menu

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temporomandibular

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- Temporomandibular Joint Disorders
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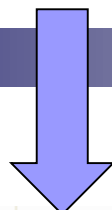
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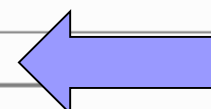
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Journal J Manipulative Physiol Ther. 1996 Nov/Dec;19(9):607-612

Author(s) ► Chinappias S JR

► Getzoff H

Subject(s) ► Dentistry

► Low Back Pain / therapy

► Lumbosacral Region / physiopathology

► Malocclusion/ complications

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Peer Review Yes

Publication Type Article

Abstract/Notes OBJECTIVE: To demonstrate the concept of integrated dental orthopedic and cranio-chiropractic care for treating structural disorders of the jaw, neck and spine.

CLINICAL FEATURES: A 33-yr-old woman sought chiropractic care for centralized lumbosacral pain that had persisted for 3 months. She exhibited pain on lumbopelvic extension and marked limitations on lumbopelvic flexion. In addition, cervical rotation and cranial sutural motion in the right malar maxillary suture were restricted. The left temporal mandibular joint also was limited in translation. Based on initial chiropractic sacro-occipital technique, she was diagnosed with Category III lumbopelvic dysfunction. X-ray examination revealed a lumbosacral angle of 39 degrees, with sacral displacement posterior to the weight-bearing line. In conjunction with the beginning of chiropractic care, she was encouraged to seek dental-orthodontic evaluation. After 30 months of chiropractic treatment, she was still experiencing some lower back pain and limited improvement. She finally agreed to see the orthodontist. Orthodontic evaluation revealed a Class I malocclusion with significant loss of vertical dimension, characteristic of bilateral posterior bite collapse.

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CONCLUSION: The position of the jaw, head and vertebral column, including the lumbar region, are intricately linked. Orthodontic treatment improved the position of the mandible, which in turn enabled the body to respond to chiropractic care.

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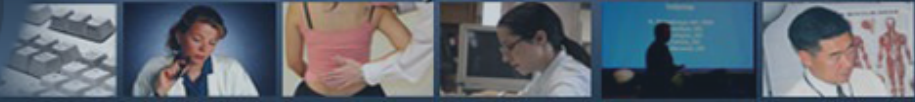
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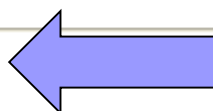
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- ▶ Blum C, Globe G, Terre L, Mirtz TA, Greene L, Globe D. [Multinational survey of chiropractic patients: Reasons for seeking care.](#) *JCCA: J Can Chiropr Assoc* 2008 August;52(3):175-84. [PubMed Record](#)
- ▶ Hurwitz EL, Chiang LM. [A comparative analysis of chiropractic and general practitioner patients in North America: Findings from the joint Canada/United States Survey of Health, 2002-03.](#) *BMC Health Serv Res* 2006 April 6;6:49. [PubMed Record](#)
- ▶ Xue CC, Zhang AL, Lin V, Myers R, Polus B, Story DF. [Acupuncture, chiropractic and osteopathy use in Australia: A national population survey.](#) *BMC Public Health* 2008 Apr 1;8:105. [PubMed Record](#)

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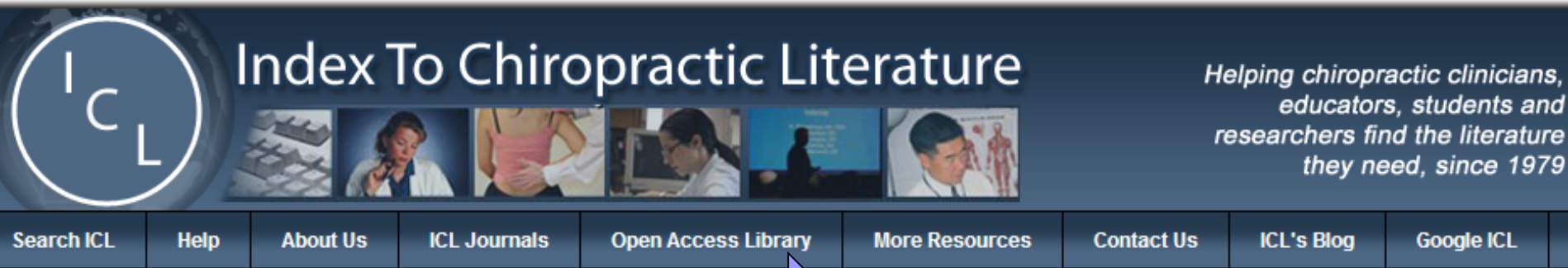


- ▶ Adams J, Hollenberg D, Lui C-W, Broom A. [Commentary. Contextualizing integration: A critical social science approach to integrative health care.](#) *J Manipulative Physiol Ther* 2009;32(9):792-8.
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- ▶ Branson RA. [Hospital-based chiropractic integration within a large private hospital system in Minnesota: A 10-year example.](#) *J Manipulative Physiol Ther* 2009 November;32(9):740-8.
- ▶ Johnson C. [Health care transitions: A review of integrated, integrative, and integration concepts \[editorial\].](#) *J Manipulative Physiol Ther* 2009 November;32(9):703-13.
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Issues in chiropractic

- ▶ Cassidy JD, Boyle E, Côté P, Yaohua H, Hogg-Johnson S, Silver FL, Bondy SJ. [Risk of vertebrobasilar stroke and chiropractic care: Results of a population-based case-control and case-crossover study.](#) *European Spine Journal* 2008 April; 17(Suppl 1): 176-183. [IEBC Review](#)

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- ▶ Green BM, Johnson CD, Adams A. [Writing narrative literature reviews for peer-reviewed journals: Secrets of the trade](#). *J Chiropr Med* 2006 Fall;5(3):101-117.



Review of ICL Highlights

<http://www.chiroindex.org>

- Index of peer reviewed chiropractic journals
- Advanced search features (Search History, Hold Citations, ChiroSH)
- Ability to e-mail, print & download citations
- Links to full text (some free)
- Portal to chiropractic & other health resources
- Open Access Library
- Dynamic features (Blog, Twitter, Site Meter, RSS feeds)
- Help available online & through e-mail

Search ICL

Enter term(s) below and click Search. For exact terms consult the online author and subject indexes help please read ICL's search tips.

Authors

[Online Author Index](#) | [Online Subject Index](#)

Subjects

The bird

AND

AND

Journal Any Journal

Year -

Peer Review Any

Publication Type Any

Addresses
 Article
 Biography
 Book Review
 Case Report
 Classical Article
 Clinical Trial
 Controlled Clinical Trial
 Editorial
 Erratum
 Eulogy
 Interview
 Letter
 Meeting Abstract
 Patient Education Handout
 Personal Narrative
 Practice Guideline
 Randomized Controlled Trial
 Review

All Fields
 All Fields
 Author
 Subject Keyword
 Article Title
 Abstract/Notes
 ID

Fields

Limiters

The Chiropractic Library Collabor

Types

ACC

[society of Chiropractic Colleges \(ACC\)](#),
rt of ACC.

Search help



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What's new in ICL?

Search Tip # 1: Search Boxes

From the pull-down menus beside the search boxes, type words or phrases in the default *All Fields*, or limit your search to specific fields.

Search Tip # 2: Boolean Operators

Select AND, OR, or NOT from the pull-down menus to combine terms typed in the search boxes.

Search Tip # 3: Phrases in Quotation Marks

Use quotation marks to retrieve phrases in any field. Example: "low back pain", "future of chiropractic"

Search Tip # 4: Searching by Author

Click on a specific name in the *Online Author Index* to place it in a search box, or enter author last name in the pull-down *Author* field.

Search Tip # 5: Searching by Subject

Click on terms in the *Online Subject Index* to place them in the search boxes, or enter a subject word or phrase ("in quotation marks") in the pull-down *Subject Keyword* field. A word or phrase entered in the *Subject Keyword* field retrieves all *Subject Headings* containing that word or phrase.

Search Tip # 6: Wildcards

Use an asterisk (wildcard) to retrieve all forms of a word (also called truncation). Example: injur* retrieves injury, injured, injuries



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*Helping chiropractic clinicians,
educators, students and
researchers find the literature
they need, since 1979*

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Search Basics Review (1): Language

- What we mean by “controlled vocabulary”
MeSH in PubMed, ChiroSH in ICL
- What we mean by “text words” or “natural language” or “authors’ words”
- What’s the difference and why does this matter?

1: Temporomandibular Joint Disorders

A variety of conditions affecting the anatomic and functional characteristics of the temporomandibular joint. Factors contributing to the complexity of temporomandibular joint disorders are its relation to dentition and mastication and the symptomatic effects in other areas which account for referred pain to the joint and the difficulties in applying diagnostic procedures to temporomandibular joint pathology where tissue is rarely obtained and x-rays are often inadequate or nonspecific. Common diseases include: abnormalities, trauma, subluxation, luxation, arthritis, and neoplasia. (From Thoma's Oral Pathology, 6th ed, pp577-600)

Year introduced: 1997

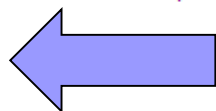
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.

☐ blood ☐ chemically induced ☐ classification ☐ complications ☐ congenital ☐ diagnosis ☐ diet therapy ☐ drug therapy ☐ economics ☐ embryology ☐ epidemiology ☐ ethnology ☐ etiology ☐ genetics ☐ history ☐ immunology ☐ metabolism ☐ microbiology ☐ mortality ☐ nursing ☐ parasitology ☐ pathology ☐ physiopathology ☐ prevention and control ☐ psychology ☐ radiography ☐ radionuclide imaging ☐ radiotherapy ☐ rehabilitation ☐ surgery ☐ therapy ☐ urine ☐ veterinary ☐ virology

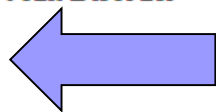
☐ Restrict Search to Major Topic headings only.

☐ Do Not Explode this term (i.e., do not include MeSH terms found below this term in the MeSH tree).

Entry Terms:



- Disorder, Temporomandibular Joint
- Disorders, Temporomandibular Joint
- Joint Disorder, Temporomandibular
- Joint Disorders, Temporomandibular
- Temporomandibular Joint Disorder
- TMJ Disorders
- Disorder, TMJ
- Disorders, TMJ
- TMJ Disorder
- Temporomandibular Disorders
- Disorder, Temporomandibular
- Disorders, Temporomandibular
- Temporomandibular Disorder
- Temporomandibular Joint Diseases
- Disease, Temporomandibular Joint
- Diseases, Temporomandibular Joint
- Joint Disease, Temporomandibular
- Joint Diseases, Temporomandibular



“text words” or “natural language”
or “authors’ words”



Search Basics Review (2): Tips

- Truncation or wildcard searching (e.g. injur*, chiropract*)
- The difference between AND and OR
- Phrase searching (“quotation marks”)
- Building a search history
- Using limiters
- Collecting citations
 - ICL’s Hold Citations; PubMed’s Clipboard



Locating Free Full Text in ICL

- Open Access Library
 - Peer reviewed journals
 - A selection of free research articles
 - Magazines & newspapers (chiropractic)
 - Patient handouts
- Links to free full text in many records
- Subject heading: *Open Access Document*



Locating Free Full Text in PubMed

- Filter your search results: Free Full Text
- Limits>>Text Options>>Links to free full text
- PubMed Central; Author Manuscripts in PMC
- LinkOut – more resources
 - check publishers for free access
- E-mail authors and request reprints



Keeping Up To Date

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PubMed Features

- My NCBI – set up account, save searches & collections
- Automatic e-mail updates
- RSS feeds available for all searches



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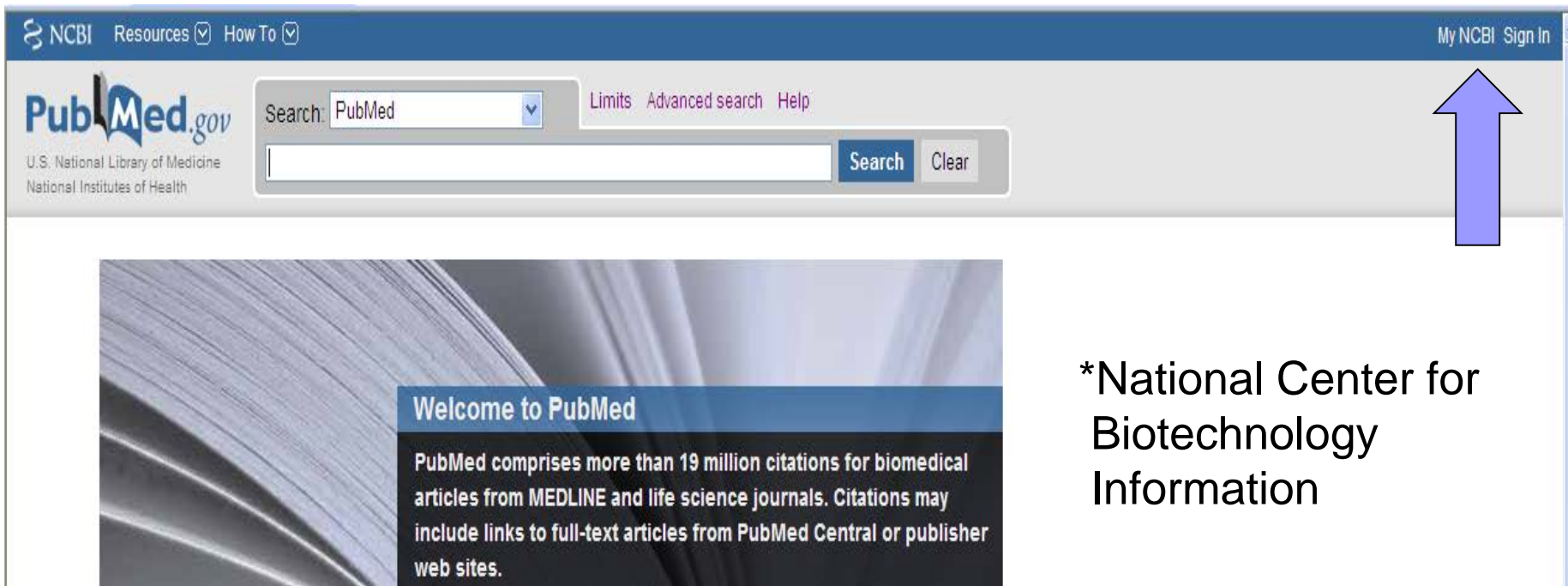
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U.S. National Library of Medicine
National Institutes of Health

Search: PubMed ▾ Limits Advanced search Help

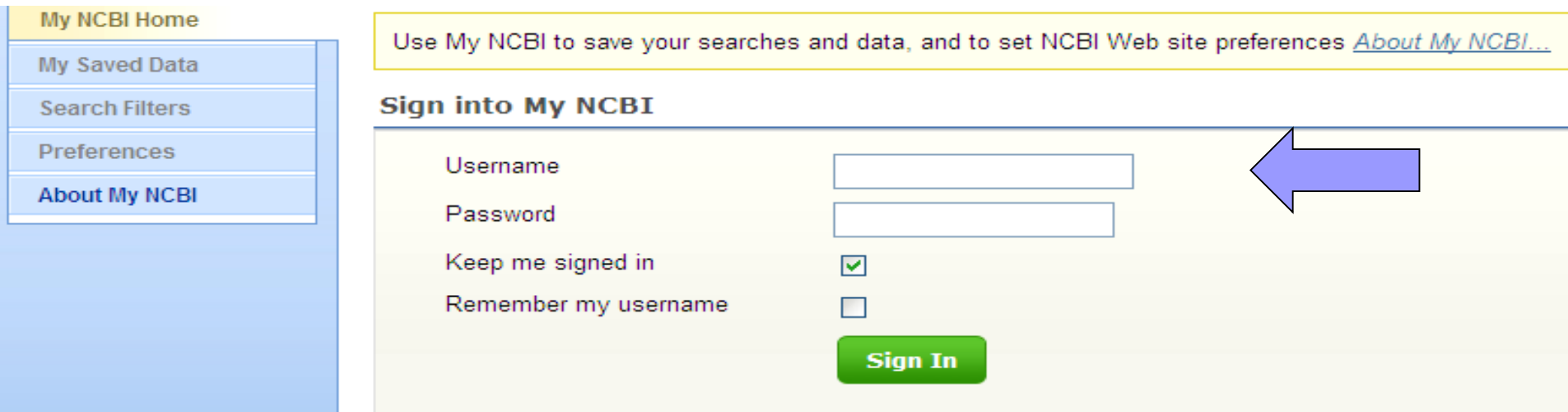
Search Clear

My NCBI Sign In

Welcome to PubMed

PubMed comprises more than 19 million citations for biomedical articles from MEDLINE and life science journals. Citations may include links to full-text articles from PubMed Central or publisher web sites.

*National Center for
Biotechnology
Information



My NCBI Home

- My Saved Data
- Search Filters
- Preferences
- About My NCBI

Use My NCBI to save your searches and data, and to set NCBI Web site preferences [About My NCBI...](#)

Sign into My NCBI

Username

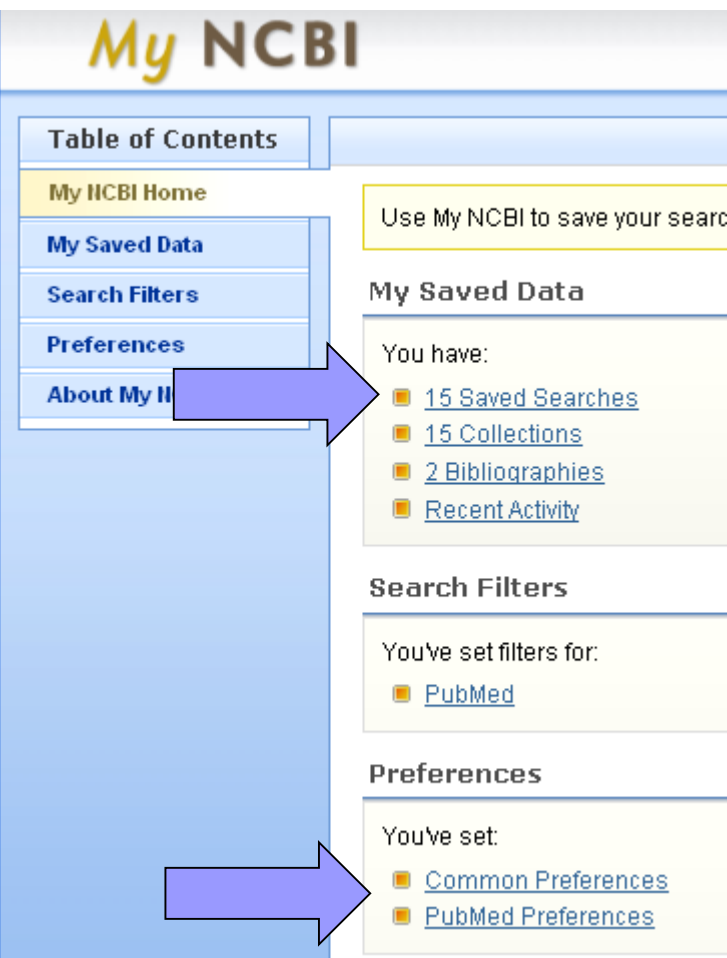
Password

Keep me signed in ☒

Remember my username ☐

Sign In

Saving Searches & Alerts in My NCBI



The screenshot shows the My NCBI homepage. On the left is a blue sidebar with a 'Table of Contents' and links to 'My NCBI Home', 'My Saved Data', 'Search Filters', 'Preferences', and 'About My NCBI'. A large blue arrow points from 'About My NCBI' to the 'My Saved Data' section. Another blue arrow points from 'Preferences' to the 'Preferences' section. The main content area has a yellow banner that says 'Use My NCBI to save your search'. Below this is the 'My Saved Data' section, which lists: 'You have: 15 Saved Searches, 15 Collections, 2 Bibliographies, and Recent Activity'. Further down is the 'Search Filters' section, stating 'You've set filters for: PubMed'. At the bottom is the 'Preferences' section, stating 'You've set: Common Preferences and PubMed Preferences'.

My NCBI

Table of Contents

- My NCBI Home
- My Saved Data
- Search Filters
- Preferences
- About My NCBI

Use My NCBI to save your search

My Saved Data

You have:

- 15 Saved Searches
- 15 Collections
- 2 Bibliographies
- Recent Activity

Search Filters

You've set filters for:

- PubMed

Preferences

You've set:

- Common Preferences
- PubMed Preferences

Your PubMed search

Search: 2008 : 2010[dp] AND english[la] AND (industry[tiab] OR company[tiab] OR drug[tiab] OR drugs[tiab] OR funding[tiab] OR "drug industry"[MeSH] OR doctor[tiab] OR doctors[tiab]) AND (gift[tiab] OR gifts[tiab] OR "gift giving" of interest"[MeSH] OR (conflict[tiab] AND interest[tiab]))

Name of Search: 2008 : 2010[dp] AND english[la]

E-mail: annietv600@yahoo.com

Would you like e-mail updates of new search results?

☐ No thanks.

☐ Yes, once a month.
Which day? the first Saturday

☒ Yes, once a week.
Which day? Saturday

☐ Yes, every day.

Formats:

Report format: Summary

Number of items:

Send at most: 5 items ☐ Send even when there aren't any new results

Any text you want to be added at the top of your e-mail (optional):

Save



Evaluation & Next Steps

- What will you do differently the next time you have to search for information?
- Do you have questions for us?
- We have created a post-conference “classroom” for you at <http://chirolitsearching.wordpress.com>
- This will provide opportunities to link to relevant resources, ask us questions (and get answers), and interact with your peers



Your post-conference classroom:
<http://chirolitsearching.wordpress.com>

Welcome to an ACC-RAC 2010 post workshop blog! 10feb10



Accessing Chiropractic Literature - An easy process!

This literature searching workshop was held at ACC-RAC 2010 on Friday, March 19, 2010, from 6:00 pm - 7:30 pm, at Caesar's Palace in Las Vegas.

From the program:

This workshop is designed for clinicians, educators and researchers who require easy access to the peer-reviewed chiropractic literature. By learning effective use of two freely available databases, the Index to Chiropractic Literature (ICL) and PubMed, attendees will be able to locate published materials such as the evidence needed to support patient care decisions, and studies on chiropractic learning and teaching. Strategies for keeping up to date and for accessing free online patient and research materials will be demonstrated.

This blog is for workshop participants to continue to develop their search skills, and to communicate with the facilitators and their fellow participants.

Filed under: [Uncategorized](#) | [1 Comment](#)

<http://chirolitsearching.wordpress.com>

search

a. the index to chiropractic literature

- *Index to Chiropractic Literature
- Ask A Librarian
- Chiropractic Journals Indexed in ICL
- Chiropractic Subject Headings (ChiroSH) 2009
- ICL Author Searching
- ICL Search Tips
- ICL Subject Searching
- Managing ICL Search Results
- Text Word (Natural Language) Searching
- Twitter ICL

b. pubmed and pubmed resources

- *PubMed
- Clinical Queries
- Introduction to MeSH, 2008
- MeSH Database
- My NCBI
- PubMed Tutorials
- Single Citation Matcher

c. locating & managing the literature

- *More Ways to Search the Literature
- Finding Full Text - a selection of articles
- Finding Full Text - chiropractic

ICL links

PubMed links



Contact Us

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- Phyllis
harvey_p@palmer.edu; 563-884-5529
- Alex
alee1@cmcc.ca; 416-482-2340



Scenario (end of workshop)

You just cured a patient's left chest and arm pain with a treatment plan of costovertebral joint manipulation. The patient's physician thought the pain was of cardiac origin. He/she is impressed with your skill and would like to write up the case with you.

You ask yourself:

What clinical areas do I need to research?

Where can I get some practical tips on writing up a case report?