Database Searching
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Learning Objectives

Following instruction students will be able to:

• construct an effective search strategy that can be used in
  - PubMed@USC / CINAHL Complete / ProQuest Social Sciences
  - Google Scholar (use basic keyword search)

• refine search results
  - via filters: language; date range; publication type; age; custom filters (EBP quantitative & qualitative literature)
  - by adjusting search terms:
    - deleting keywords (OR)
    - add additional concepts (AND)
    - quotation marks

• use other database features:
  - see similar articles
  - e-mail citations
Access Databases via OT Subject Guide

Occupational Science and Occupational Therapy: Article Databases

The following databases have been selected due to their inclusion of occupational therapy topics, or other relevant material. Please note that many other databases are also available to assist you in your search:

- **PubMed@USC**
  - Customized for USC users to find the full-text of articles from library holdings.

- **PubMed Clinical Queries**
  - Limited to clinical studies, systematic reviews, and medical genetics. For comprehensive searches, use PubMed directly.

- **CINAHL Complete**
  - CINAHL with Full Text is a rich collection of full text for nursing & allied health journals.

- **Cochrane Database of Systematic Reviews**
  - The Cochrane Database of Systematic Reviews provides access to full-text systematic reviews.

- **Joanna Briggs Institute EBP Database**
  - Evidence-based practice database with a global focus. Find systematic reviews, protocols, recommended practices, evidence summaries, best practice and consumer information sheets, and technical Reports.

- **ProQuest Nursing and Allied Health**
  - This database includes journals, video, dissertations, reference books and more.

- **Social Sciences (ProQuest)**
  - Searches a number of ProQuest social science databases (including ERIC, GenderWatch, Psycinfo, and Sociological Abstracts).

- **AnthroSource**
  - Provides full text access to publications from the American Anthropological Association. Some coverage on medical anthropology and ethnoarchaeology. Good for sociocultural and linguistic anthropology.

- **AGELINE**
  - Content focus on social gerontology, which is the study of aging in psychological, health-related, social, and economic contexts. Includes abstracts of over 200 academic journals, books, book chapters, and dissertations from 1978 to present.

- **Embase**
  - Embase provides access to over more than 29 million citations for biomedical articles and conference proceedings. This version has been customized for USC users to find the full-text of articles from library holdings.

- **Scopus**
  - A multidisciplinary database that includes literature from the fields of science, technology, medicine, social sciences, and Arts & Humanities.

- **Web of Science**
  - A multidisciplinary database, with searchable author abstracts, covering the journal literature of the sciences.

- **Health and Psychosocial Instruments (HAPI)**
Please find new literature (last 2 years) on the efficacy of video conferencing in research or clinical practice.

Identify your concepts – you can use the PICO model, or simply break down your question into clear concepts.

<table>
<thead>
<tr>
<th>P</th>
<th>Population/Patient/Problem</th>
<th>Concept 1</th>
<th>video conferencing</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Intervention/Exposure</td>
<td>Concept 2</td>
<td>research OR clinic</td>
</tr>
<tr>
<td>C</td>
<td>Comparison</td>
<td>Concept 3</td>
<td>efficacy</td>
</tr>
<tr>
<td>O</td>
<td>Outcome</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(T)</td>
<td>Type of Question</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Boolean Operators

- connector words that combine concepts
- narrow or broaden your search
- enter in upper case letters

- **AND** – narrows search / includes all terms / limit to 3 concepts

- **OR** – broadens search / includes any term / use for concepts that have a lot of synonyms

(videoconferencing OR telemedicine) **AND** (clinic OR research) **AND** efficacy
Construct a Search Strategy

- **OR** a few keywords / synonyms for each concept

<table>
<thead>
<tr>
<th>Concept 1</th>
<th>video conferencing OR telemedicine OR telehealth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concept 2</td>
<td>research OR medical studies OR clinic OR clinical practice</td>
</tr>
<tr>
<td>Concept 3</td>
<td>efficacy OR effectiveness</td>
</tr>
</tbody>
</table>

i.e. other terms to consider for **Concept 1**: digital health OR mHealth OR iPatient

- **AND** concepts in database **ADVANCED** screen
  - benefit is that the **database will place parentheses correctly** for you

**Parentheses placement matters!** 5(2+3) is not equal to (5)(2)+3
Pubmed Database

- free resource produced by National Library of Medicine
- primarily includes full MEDLINE database, plus current articles, and more
- largest biomedical database in the world
1) Sign in to MyNCBI

2) Click on the “Advanced” link under the search box.
1) Enter **keywords** for each concept into **individual search boxes**.

2) Click **“Search”**
Filters – narrow results

“Customize”; “Custom Range” & “Show additional filters” open more options
Filters – narrow results

Custom filters:
- sign in to MyNCBI

- quick overview
  - EBP filters (Therapy [Quantitative] & Qualitative)

“Therapy” filters quickly filter for quantitative EBP literature (i.e. meta analysis, SR, RCTs, guidelines, etc.)
Common Filters

**Traditional:** Language; Date; Article Type; Age

**Custom:** Therapy (Quantitative); Qualitative

Clear filters between searches!!
Comparative effectiveness of telemedicine strategies on type 2 diabetes management: A systematic review and network meta-analysis.

Lee SWH1,2, Chan CKY3, Chua SS4,5, Chaiyakunapruk N6,7,8.

Abstract

The effects of telemedicine strategies on the management of diabetes is not clear. This study aimed to investigate the impact of different telemedicine strategies on glycaemic control management of type 2 diabetes patients. A search was performed in 6 databases from inception until September 2016 for randomized controlled studies that examined the use of telemedicine in adults with type 2 diabetes. Studies were independently extracted and classified according to the following telemedicine strategies: teleeducation, telemonitoring, telecase-management, telementoring, and teleconsultation. Traditional and network meta-analysis were performed to estimate the relative treatment effects. A total of 107 studies involving 20,501 participants were included. Over a median of 6 months follow-up, telemedicine reduced haemoglobin A1c (HbA1c) by a mean of 0.43% (95% CI: -0.64% to -0.21%). Network meta-analysis showed that all telemedicine strategies were effective in reducing HbA1c significantly compared to usual care except for telecase-management and telementoring, with mean difference ranging from 0.37% to 0.71%. Ranking indicated that teleconsultation was the most effective telemedicine strategy, followed by telecase-management plus telemonitoring, and finally teleeducation plus telecase-management. The review indicates that most telemedicine strategies can be useful, either as an adjunct or to replace usual care, leading to clinically meaningful reduction in HbA1c.
Email Results
CINAHL Complete
Cumulative Index to Nursing and Allied Health

- focus on allied health
- ~5 million records dating back to 1937
- more qualitative studies
CINAHL Advanced Screen / Filters

1. Default is to Advanced screen
2. Check some filters before-hand:
   - English language
   - Published Date
   - Peer Reviewed - ALWAYS check this box to avoid non-academic literature in results
Subject Filters

1. Under **Subject: Major Heading**, click the “Show More” link.
2. Check the boxes next to topics of interest.
3. Click “Update”.

- **telemedicine**: 150
- **telehealth**: 44
- **internet**: 30
- **self care**: 25
- **mobile applications**: 19
- **stroke**: 15
- **depression**: 14
- **cognitive therapy**: 13
- **cellular phone**: 12
- **diabetes mellitus, type 2**: 12
EBP Filters – Therapy/Qualitative

1. Under **Limit to**, click the “Show More” link.
2. Check the “Evidence-Based Practice” box.
3. Or, click the individual **therapy/quantitative** or **qualitative** filter options listed in the **Clinical Queries** box.
Click the x to clear filters
Related Articles

1) Click on title of interest in the results page
2) Click the “Find Similar Results” link
Email Results

1) Click on yellow folder for title of interest in the results page
2) Click the “Go to Folder View” link
Email Results

3) Check box next to title of interest
4) Click the “Email” link
Social Sciences (ProQuest)

- ERIC (education), PsycINFO, and Sociological Abstracts Databases
- Qualitative literature
1) Click the “Advanced Search” link.
Enter Search Strategy

1) Click the “+” to add a row
2) Enter keyword search strings into separate search boxes.
3) Check “Peer reviewed” box
4) Click the Publication date dropdown and select the “Specific date range” option. Set range.
5) Click “Search”
Subject Filter

- Using Web-Based Instruction, Brief Workshops, and Remote Consultation to Teach Community-Based Providers a Parent-Mediated Intervention

- The Children's Attention-Deficit Hyperactivity Disorder Telemental Health Treatment *Study*: Caregiver Outcomes

- Evaluating the Feasibility of a Play-Based Telehealth Intervention Program for Children with Prader-Willi Syndrome

- The Use of Health Information Technology to Improve Care and Outcomes for Older Adults
  Bowles, Kathryn H; Dykes, Patricia; Demiris, George. *Research in Gerontological Nursing; Thorofare Vol.* 8, Iss. 1, (Jan 2015): 5-10.
Filters – Search Within / Qualitative

Search Within

qualitative OR phenomenological OR perception OR interview

Search
Related Items

Telehealth and Occupational Therapy: Integral to the Triple Aim of Health Care Reform

“Related items”
Email
Google Scholar

Search for: video conferencing diabetes clinical practice

- Any time
- Since 2017
- Since 2016
- Since 2013
- Custom range...
- Sort by relevance
- Sort by date
- Include patents
- Include citations

Click "quote icon" for citation.

Login to USC gmail account & FindIt@USC link for full text will show up
Tips for Searching Databases

- clearly define your concepts
- OR together keywords / synonyms for each concept
  - change keywords to get different results
- AND concepts in Advanced screens
  - let the database place the parentheses for you
  - combine 3 concepts at most
- use filters to refine results (study type, date, age, EBP)
Quotations

Put phrases in quotations “”
to search for the words in that exact order:

- “occupational therapy”
- “constraint induced therapy”
- “blood pressure”

Note: quotes may turn off other database features
PUBMED’S MYNCBI
PubMed’s My NCBI

- Register for My NCBI account
- Set up custom filters
- Login to My NCBI before running searches
- Custom filters will show on right side of results page
Register for a MyNCBI account

1) Click the “Sign in to NCBI” link
2) Click the “Register for an NCBI account” link
Fill out the form

1) Fill out the form.
2) Go to your email and click the link they send you in order to activate all features.

DO NOT use this feature!!! We are not connected, even though USC shows up on the list.
Customizing Filters for PubMed

- Click on MyNCBI
- Click on Manage Filters link
- Click on “Properties” radio dial
- Click on the + sign to open filter lists
- Check the box next to the filter name to apply (up to 16 filters)
- Filter name will be added to the box on the left side (no need to save)
- Must be signed into MyNCBI for custom filters to activate

**Clinical Queries:** Therapy/Broad & Narrow

**Health Services Research**
Qualitative/Broad & Narrow

**Subsets:**
Systematic Reviews
1. Sign in to My NCBI 
2. Run a search 
3. Custom filters will show up on right side of results page
thank you