A Spectrum of Resources to Support Evidence-Based Medical Research
“By 2020, 90% of clinical decisions will be supported by accurate, timely and up to date clinical information and will reflect the best available evidence and informed personal preference.”

Roundtable on Value and Science-Driven Care (2011)
But Keeping up with the Evidence is Difficult

**Difficult to stay current**
- 7,000 articles per specialty, per month published, on average

**Difficult to interpret and apply evidence**
- Volume of clinical content not in succinct, searchable format for use at the point of care
- Information often does not provide specific recommendations for clinical care

**Challenges in retaining knowledge**
- Knowledge declines over time, with a significant inverse correlation between examination scores and number of years elapsed since certification

Source: Dr. Jim Wiley, HIMSSEurope 2013
Evidence-Based Content on Ovid
Range of Evidence-Based Content
What kind of content do you need for your research?

Wolters Kluwer’s Ovid platform offers an array of evidence from Systematic Reviews to Randomized Controlled Trials to Case Studies.

The ubiquitous evidence pyramid

- Systematic Reviews
- Meta-Analyses
- Evidence Summaries
- Evidence Guidelines
- Randomized Controlled Trials
  - Cohort Studies
  - Qualitative Studies
- Grey Literature
Let’s Start at the Top

**Systematic Reviews and Meta-Analyses**

“A review of the evidence on a clearly formulated question that uses systematic and explicit methods to identify, select and critically appraise relevant primary research, and to extract and analyse data from the studies that are included in the review.”

“A meta-analysis is the statistical combination of at least 2 studies to produce a single estimate of the effect of the health care intervention under consideration.”

---


Evidence-Based Medicine Reviews (EBMR)

EBMR is comprised of 7 different databases, a unique implementation only offered by Ovid

The Cochrane Collaboration are founders of the Evidence-Based Practice (EBP) movement and are a “must consult” resource for EBP

Content from the Cochrane Collaboration included in EBMR:

Cochrane Database of Systematic Reviews (CDSR)
- Over 4000 reviews which investigate effects of health care interventions and assess the accuracy of diagnostic tests
- Impact Factor (2012): 5.785 Medicine, General & Internal
  (12/155 in General Medicine category)
- Includes Methodology Reviews

Cochrane Methodology Register (CMR)
- Full-text methodology reviews that summarize the empirical basis for decisions about methods in systematic reviews
- Includes complete reviews and protocols
Pulling in Some Middle Range

Evidence Summaries, Guidelines

“An evidence summary is defined as a short summary of the best available evidence on a defined question, with consideration of implications for further research. It aims to help policy makers use the best available evidence in their decision-making about interventions.”

Evidence-Based Medicine Reviews (EBMR)

**Also in EBMR:**

*Databases from the NHS Centre for Reviews and Dissemination (CRD)*

The **Database of Abstracts of Reviews of Effectiveness (DARE)**

Selected systematic reviews on the effectiveness of clinical interventions and policies from databases such as MEDLINE and through manual review of the primary literature

**Health Technology Assessments (HTA)**

4,000 records of completed and ongoing assessments of the medical, social, ethical and economic implications of healthcare interventions

**NHS Economic Evaluation Database (NHSEED)**

Over 6,000 abstracts of quality assessed economic evaluations to assist decision-makers by systematically identifying and describing economic evaluations, appraising their quality and highlighting their relative strengths and weaknesses
Joanna Briggs Institute (JBI)

- Global leaders in evidence-based healthcare
- Evidence gathered by a network of international experts in over 47 countries in a range of health disciplines
- Focus on quantitative (including economic evidence) and qualitative evidence
- Summarized research designed to be easy to locate, understand and distribute
- Unique resources designed to help assess the quality of research
- 16 focus area “nodes” including newest Pediatrics and Tropical Diseases
7 Publication Types

**Systematic Reviews**

JBI SRs contain implications for research and/or practice

**Evidence Summaries**

Short summaries of international evidence on common health care interventions, updated yearly. JBI will create summaries as requested

**Best Practice Information Sheets**

Decision support tool. Short summaries based on recommendations of systematic reviews. BPIS are easily disseminated and provide busy health professionals access to key issues and recommendations

**Evidence-Based Recommended Practices**

Procedures, equipment list, a recommended practice

**Consumer Information Sheets**

**Technical Reports & Systematic Protocols**
All About That Bass

Randomized Controlled Trials, Cohort Studies, Qualitative Studies

“Randomised controlled trial
A study in which a number of similar people are randomly assigned to 2 (or more) groups to test a specific drug or treatment. One group (the experimental group) receives the treatment being tested, the other (the comparison or control group) receives an alternative treatment, a dummy treatment (placebo) or no treatment at all. The groups are followed up to see how effective the experimental treatment was. Outcomes are measured at specific times and any difference in response between the groups is assessed statistically. This method is also used to reduce bias.”

Evidence-Based Medicine Reviews (EBMR)

Content from the Cochrane Collaboration in EBMR:

Definitive Controlled Trials - The Cochrane Central Register of Controlled Trials

Over 350,000 bibliographic references to controlled trials in health care, and imposes quality control standards on included references to ensure that only reports of definite randomized controlled trials or controlled clinical trials are included.

Also in EBMR:

ACP Journal Club from the American College of Physicians

Enhanced abstracts of clinically relevant and sound studies published in top clinical journals. They include commentaries on the applicability of these studies to clinical practice.

Did you know: In 2009, there was a search in the Cochrane Library (through any provider) every second, an abstract viewed every 2 seconds and a full text download every 3 seconds!
Ovid MEDLINE®

- One of the world’s largest bibliographic databases covering medicine, health, nursing, veterinary medicine and biomedical sciences
- Over 20M articles, over 5,500 titles currently indexed
- Has abstracts for over 50% of its journals
- 80% of the citations are in English
- Uses MeSH as its search controlled vocabulary

MeSH - Medical Subject Headings - set of controlled terms from the National Library of Medicine (NLM)
### Ovid MEDLINE®

**Tree for Pituitary Gland**

Combine selections with: OR **OR** Continue > Contexts

Scroll down for highlighted search term.

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BIOSIS® Suite

BIOSIS Previews®
- Journal content from Biological Abstracts® along with non-journal content from Biological Abstracts/RRM®
- Comprehensive coverage on virtually every life sciences discipline
- Coverage spans 1926 to the present
- Critical research on current trends and developments

Biological Abstracts®
- Take advantage of the high standards of journal evaluation process, only life science, peer-reviewed original research journals are indexed
- Specialized indexing (MeSH disease terms, CAS Registry, etc)
- Available with over 11.3 million records back to 1926

Biological Abstracts/RRM®
- Discover new applications, techniques and laboratory methods discussed at meetings, months before they are published in journals
- Track the competition
- References over 1,500 meetings, 29,000 patents, 9,000 book reviews references to review articles

*BIOSIS® Suite also includes Zoological Records*
PsycINFO®

- Bibliographic database that indexes publications from 1806 to present
- Scholarly literature in psychology, behavioral sciences, and mental health
- Contains more than 2 million citations, 7% are books and 11% are dissertations
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**Basic Search** | **Find Citation** | **Search Tools** | **Search Fields** | **Advanced Search** | **Multi-Field Search**

Enter keyword or phrase: **Keyword**  
Author  
Title  
Journal

**Limits (expand)**  
Include Multimedia  
Map Term to Subject Heading

To search Open Access content on Ovid, go to [Basic Search](#)

**Results Tools** | **Options**

- All  
Select Range

**Search Information**

You searched:  
1 and 2

1. The effects of school-level victimization on self-blame: Evidence for contextualized social cognitions. [References].
Embase®

• Excerpta Medica Online
• Major European biomedical and pharmaceutical database, ideal for global pharmaceutical and pharmacological research
• Indexed using Emtree and MeSH
• Has more than 19 million indexed records from more than 7,500 peer-reviewed journals
• Drug and device indexing by trade name, manufacturer name, clinical trials, and more
Use the Back in Index and Forward in Index buttons to scroll through an index in which a term displays. To enter a new start term, type a term into the box and click the Go button.
To navigate to the top of a new index, click a number tab or letter tab.

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What What?

*Grey Literature*

"Information produced on all levels of government, academia, business and industry in electronic and print formats not controlled by commercial publishing i.e. where publishing is not the primary activity of the producing body." ¹

**Why Grey Literature?**

Searching for unpublished studies or data reduces level of possible bias

Exclusion of grey literature from meta analyses can lead to exaggerated estimates of intervention effectiveness ²

---

¹. ICGL Luxembourg definition, 1997 - Expanded in New York, 2004

². Laura McAuley, Ba’ Pham, Peter Tugwell, David Moher. “Does the inclusion of grey literature influence estimates of intervention effectiveness reported in meta-analyses?” Lancet 2000; 356:1228-31
PsycEXTRA®

- PsycEXTRA contains references to grey literature (non-journal literature) these may be multimedia - websites, CDs, DVDs etc, as well as printed materials such as brochures and pamphlets. It contains +320,000 records from 1908 to present, updated biweekly.
- Over 70% is available as Full-Text PDFs for printed materials, where the medium permits.
- PsycEXTRA is additional information which is not also referenced in PsycINFO, so there is no overlap and these databases may be searched together.
Northern Light - Life Sciences Conference Abstracts and Posters

• More than 1,500,000 abstracts and posters from over 1,600 global life sciences conferences
• Abstracts and posters are loaded and searchable within 3 weeks or less of the information being posted on conference sites, and often years before publication in a peer-reviewed journal
• 100% copyright-compliant
• Conferences span 2010-present; new conferences added as abstracts are posted - Updated weekly
• Multimedia content - Posters include data tables, graphs, images, video, and audio
• Information is drawn directly from conference websites - Summaries of conference abstracts and author information remain in the database even when the conference links expire
Why on Ovid?
Benefits of Ovid Search

EBMR Topic Reviews are integrated with Ovid MEDLINE

- Allows users to link back and forth between articles reviewed and the reviews themselves
- Users can also limit searches to just evidence-based reviews/articles

Multi-file Searching - search two or more databases simultaneously - and Ovid can de-duplicate results

Basic Search/Natural Language Processing

- Allows users who don’t know MeSH/EMTREE to get to the most relevant review articles - includes synonym expansion.

PsycINFO - Ovid has leveraged several Psychology sources, including the APA’s thesaurus, to enhance its already robust lexical database
Multi-database Searching

Ovid®

Search History (3 searches) (close)

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PsycEXTRA <1908 to March 09, 2015>
PsycINFO <1806 to March Week 2 2015>

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Search | Multi-Field Search

2 Resources selected | Hide | Change

PsycEXTRA 1908 to March 09, 2015, PsycINFO 1806 to March Week 2 2015

Enter keyword or phrase (* or $ for truncation)

Keyword Author Title Journal

Search

Limits (close)

Abstracts English Language Latest Update PsycEXTRA PDFs

All Journals Full Text Local Holdings Test DOI

Animal Human PsycARTICLES Journals

Publication Year

Additional Limits Edit Limits
Benefits of Ovid Search, con’t

Clinical Queries
Limits from McMaster University—customized for Ovid for EMBASE, Medline, and PsycINFO

My Projects - productivity tool
Create & manage research projects
Add citations, text, PDFs, images, snippets from within Ovid, from the PC, or from external sources

Saved Searches and Auto-Alerts - search once and receive matching citations emailed to you as they are added to the database

Ability to search with full text journal and book content on Ovid
Books & journals (including those focused on evidence and leading general medicine journals) are integrated in Ovid and can be searched in conjunction with databases

Full content integration (reference/full text linking from within reviews)
My Workspace in Ovid

My Projects, Searches & Alerts, eTOCs

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Trash

Empty Trash now
Messages that have been in Trash more than 30 days will be automatically deleted
Links to Open Access Articles & Internet Resources

Links to your Ovid Full Text, and the option to link to your full text from other providers

Free full text links in Ovid MEDLINE, Ovid Embase, BIOSIS, and PsycINFO to Open Access articles, and MEDLINE links to Internet resources, like Clinical Trials

5. Systematic characterizations of text similarity in full text biomedical publications.

Sun Z. Errami M. Long T. Renard C. Choradia N. Garner H.
[Journal Article. Research Support, N.I.H., Extramural. Research Support, Non-U.S. Gov’t]

UI: 20856807

Authors Full Name
Sun, Zhaohui. Errami, Mounir. Long, Tara. Renard, Chr

View Abstract

Full Text
Please select the Full Text article you wish to view:
• PubMed Central
• DOAJ Free Journal Level FT
Evidence is global and emerges every day

• Evidence comes from multiple sources and is rapidly changing

• Evidence is made available in many forms from many providers
  • Databases
  • Point of Care and Clinical Decision Making tools
  • Evidence published in traditional journals and Open Access journals
  • And more

As Research Evolves, Ovid Delivers Precise Medical Insights at your Fingertips
Thank you!