Medical Subject Heading in Discovery Searching

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What is Discovery?

• Eg.
• One search-box approach to the library content
• Locally hosted index
• Knowledge base on your holdings
Discovery in the Medical libraries

- Strong position of native databases and medical subject headings
What is Discovery needed for?
Helps users, increases usage:

• Case:

Central Manchester University Hospitals

NHS Foundation Trust
Increase in full text downloads

Central Manchester University Hospitals
NHS Foundation Trust

CMFT Full Text Downloads 2014 - 2015

2014 = 22,278

2015 = 82,664
If you choose a Discovery service that matches your needs…

• The service makes use of the subject indexes
• Users find needed information timely
• The tool can guide users to use the native databases
How does EBSCO do this?

1. Using **metadata** that includes subject headings
2. A **relevance ranking** that makes use of these subject headings
3. **Mapping** subject terms
EBSCO Relevance Ranking

The system has the following priorities and has no bias toward content from any provider:

1. Match on **subject headings** from controlled vocabularies
2. Match on article titles
3. Match on author keywords
4. Match on keywords within abstracts
5. Match on keywords within full text

**Exact Matches:** Exact matches are favored over partial matches – considering also the field in which those words appear (abstract vs. full text vs. title, etc.)

**Density:** Matches across multiple metadata fields are favored for relevance scoring (more is better). The scoring influence of repeat terms within individual metadata fields is minimized.
Value Ranking: Quality & Openness

Recently published content is scored higher for relevance than older content.
Value Ranking: Quality & Openness

Articles of a more substantial length have a heavier weighting (e.g. a $\frac{1}{4}$ page article is considered less valuable than a four page article)
Value Ranking: Quality & Openness

Certain document types are weighted higher than others for relevance scoring. For example, when the word “book” or “review” is not searched, there is a bias against book reviews, so these don’t dominate results.
Enhanced Subject Precision

- Mapping terms from different databases
Examples
Search term ADHD

1. Neuropsychological functioning in college students with and without ADHD.
   Subjects: Attention Deficit Disorder with Hyperactivity; Cognitive Ability; Neuropsychology; Adulthood (18 yrs & older); Young Adulthood (18-29 yrs); Male; Female

2. The relevance of cognitive distortions in the psychosocial treatment of adult ADHD.
   Subjects: Attention Deficit Disorder with Hyperactivity; Cognitive Behavior Therapy; Cognitive Processes; Perceptual Distortion; Adulthood (18 yrs & older)

3. Sluggish cognitive tempo and attention-deficit/hyperactivity disorder (ADHD) inattention in the home and school contexts: Parent and teacher invariance and cross-setting validity.
   Burns, G. Leonard; Becker, Stephen P.; Servera, Mateu; Bernad, María del Mar; García-Banda, Gloria; Psychological Assessment, Vol 29(2), Feb. 2017 pp. 209-220. Publisher: American Psychological Association; [Journal Article], Database: PsycARTICLES
Searching Vistaril or Atarax

Search Results: 1 - 10 of 2,171

   Subjects: Anxiety Disorders; Drug Therapy; hydroxyzine; Outpatients

2. Hypersensitivity to Vistaril in a child with asthma.
   Subjects: Asthma complications; Drug Hypersensitivity etiology; Dyspnea chemically induced; hydroxyzine adverse effects; Adolescent: 13-18 years; All Child: 0-18 years; Male

3. Hydroxyzine (atarax; vistaril).
   (English), The Medical Letter On Drugs And Therapeutics [Med Lett Drugs Ther], ISSN 0025-732X. 1970 Sep 04; Vol. 12 (18), pp. 74-5; Publisher: The Medical Letter; PMID: 4950074, Database: MEDLINE with Full Text
   Subjects: Hydroxyzine therapeutic use; Child: 6-12 years; All Child: 0-18 years
Users see where the results come from
Need for more sophisticated searching?

- Continue searching in a database and with the discovered search term
Databases Supported for Mapping

- MEDLINE (full product line)
- CINAHL (full product line)
- PsycINFO
- PsycARTICLES
- Academic Search
- Business Source
- Dentistry & Oral Sciences Source
- AgeLine
- psycBOOKS
- Social Work Abstracts
- SocINDEX
- AGRICOLA
- HeinOnline
- Abstracts in Social Gerontology
- Food Science & Technology Abstracts
- Library Literature & Information Science
Other features

Examples
72,000+ “Research Starters” provided by Salem Press
PhDs & Magill’s Medical Guide
JAMA: Journal of the American Medical Association

   Chicago : American Medical Association 01/01/1960 Language: English, Database: EDS Demo Catalog – US - U of Georgia
   Subjects: Medicine -- Periodicals; Medicine -- electronic journals

   Request this item through interlibrary loan  Retrieve Catalog Item
   Location
   Call No.  Status
   Internet Resource
   UGA Libraries - Hours & Directions  Available

   Subjects: Medicine -- Periodicals

   Request this item through interlibrary loan  Retrieve Catalog Item
   (9) Other Libraries Holding this Item
Looking for a specific database?

Web of Science

Web of Science is an online subscription-based scientific citation indexing service maintained by Thomson Reuters that provides a comprehensive citation search. It gives access to multiple databases that reference cross-disciplinary research, which allows for in-depth exploration of specialized sub-fields within an academic or scientific discipline.

1. ANÁLISIS DE LA PRODUCCIÓN CIENTÍFICA EN BALONMANO EN LAS REVISTAS DE LA WEB OF SCIENCE.


The aim of this research was to analyze the scientific contributions whose subject of study was handball and which were published in journals indexed in Web of Science. The search was conducted...

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Questions?
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