Searching Pubmed Database استخدام قاعدة المعلومات

برنامج مهارات البحث العلمي مركز البحوث بأقسام العلوم والدراسات الطبية للطالبات الأحد 1433/11/14هـ الموافق30 /9/ 2012 م

د. سيناء عبد المحسن العقيل قسم الصيدلة الإكلينيكية salageel@ksu.edu.sa

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PubMed Tutorials	Clinical Queries	E-Utilities
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The National Center for Biotechnology Information (NCBI) established on November 4, 1988, as a division of the National Library of Medicine (NLM) at the National Institutes of Health (NIH), US.

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PubMed Overview

- NLM has been indexing the biomedical literature since 1879, to help provide health professionals access to information necessary for research, health care, and education.
- What was once a printed index to articles, the *Index Medicus*, became a database now known as MEDLINE. MEDLINE contains journal citations and abstracts for biomedical literature from around the world.
- Since 1996, free access to MEDLINE has been available to the public online via PubMed.

PubMed Overview (cont.)

- PubMed is a database of bibliographic information drawn primarily from the life sciences literature.
- PubMed contains links to full-text articles at participating publishers' Web sites as well as links to other third party sites such as libraries and sequencing centers.
- PubMed provides access and links to the integrated molecular biology and chemistry databases maintained by NCBI.

What's in PubMed?

- Over 22 million records representing articles in the biomedical literature and a small selection of items from the NCBI Books database.
- Most PubMed records are MEDLINE citations.
- Other records include those in different stages of processing (including records provided directly from the journal publisher) but destined to be MEDLINE citations.
- A relatively small number of records that are included in PubMed but not selected for MEDLINE.

Navigating PubMed

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Understanding the Vocabulary

- MEDLINE uses a controlled vocabulary, meaning that there is a specific set of terms used to describe each article. Familiarity with this vocabulary will make you a better PubMed searcher.
- The Medical Subject Headings (MeSH[®])
- MeSH is the authority list of the vocabulary terms used for subject analysis of biomedical literature at NLM. MeSH vocabulary is used for indexing journal articles for <u>MEDLINE</u> and is also used for cataloging books and audiovisuals.
- The MeSH controlled vocabulary is a distinctive feature of MEDLINE. It imposes uniformity and consistency to the indexing of biomedical literature. MeSH terms are arranged in a hierarchical categorized manner called MeSH Tree Structures and are updated annually.

MeSH vocabulary is organized by 16 main branches:

- 1. Anatomy
- 2. Organisms
- 3. Diseases
- 4. Chemical and Drugs
- 5. Analytical, Diagnostic and Therapeutic Techniques and Equipment
- 6. Psychiatry and Psychology
- 7. Biological Sciences
- 8. Natural Sciences
- 9. Anthropology, Education, Sociology and Social Phenomena
- 10. Technology, Industry, Agriculture
- 11. Humanities
- 12. Information Science
- 13. Named Groups
- 14. Health Care
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- 16. Geographic Locations

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		 Autistic Disorder A disorder beginning in childhood. It is marked by the presence of markedly abnormal or impaired development in social interaction and communication and a markedly restricted repertoire of activity and interest. Manifestations of the disorder vary greatly depending on the developmental level and chronological age of the individual. (DSM-IV) Year introduced: 1981(1966) 	Add to search builder AND -
		 <u>Child Development Disorders. Pervasive</u> Severe distortions in the development of many basic psychological functions that are not normal for any stage in development. These distortions are manifested in sustained social impairment, speech abnormalities, and peculiar motor movements. Year introduced: 1981 	Find related data
		 Rett Syndrome An inherited neurological developmental disorder that is associated with X-LINKED INHERITANCE and may be lethal in utero to hemizygous males. The affected female is normal until the age of 6-25 months when progressive loss of voluntary control of hand metaments and communication addition of ATAVIA: SETZUDES: cuticitie behavior: intermittent UVDED/(ENTURE) and 	Find items

Autistic Disorder

A disorder beginning in childhood. It is marked by the presence of markedly abnormal or impaired development in social interaction and communication and a markedly restricted repertoire of activity and interest. Manifestations of the disorder vary greatly depending on the developmental level and chronological age of the individual. (DSM-IV) Year introduced: 1981(1966)

PubMed search builder options Subheadings:

ethnology
etiology
genetics
history
immunology
metabolism
microbiology
mortality
nursing
parasitology
pathology

physiopathology
prevention and control
psychology
radiography
radionuclide imaging
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surgery
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Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): F03.550.325.125 Entry Terms:

- Disorder, Autistic
- Disorders, Autistic
- Kanner's Syndrome
- Kanner Syndrome
- Kanners Syndrome
- Syndrome, Kanner's
- Autism, Infantile
- Infantile Autism
- Autism
 Autisms
- Autism, Early Infantile
- Early Infantile Autism
- · Infantile Autism, Early

Previous Indexing:

Autistic Disorder

A disorder beginning in childhood. It is marked by the presence of markedly abnormal or impaired development in social interaction and communication and a markedly restricted repertoire of activity and interest. Manifestations of the disorder vary greatly depending on the developmental level and chronological age of the individual. (DSM-IV) Year introduced: 1981(1966)

PubMed search builder options

Subheadings:

blood

cerebrospinal fluid

chemically induced

classification

complications

🔲 diagnosis

diet therapy

drug therapy

economics

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ethnology
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genetics
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 ultrasonography

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enzymology	parasitology	🔲 urine
epidemiology	pathology	virology

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): E03.550.325.125

Entry Terms:

- Disorder, Autistic
- · Disorders, Autistic
- · Kanner's Syndrome
- Kanner Syndrome
- Kanners Syndrome
- · Syndrome, Kanner's
- Autism, Infantile
- Infantile Autism
- Autism
- Autisms
- Autism, Early Infantile
- Early Infantile Autism
- · Infantile Autism, Early

All MeSH Categories

Psychiatry and Psychology Category <u>Mental Disorders</u> <u>Mental Disorders Diagnosed in Childhood</u> <u>Child Development Disorders, Pervasive</u> Autistic Disorder

- NLM indexers examine articles and assign the most specific MeSH heading(s) that appropriately describes the concept(s) discussed.
- The indexer will assign as many MeSH headings as appropriate to cover the topics of the article (generally 5 to 15).
- Indexers can also assign Subheadings to further describe a particular aspect of a MeSH concept.
- In addition to assigning MeSH terms that describe the topic of the article, the indexer provides terms that reflect:
- ✓ characteristics of the group being studied (e.g., the age group, human or other animal, male or female)
- ✓ the material represented (Publication Types) e.g., Clinical Trials, Editorial, Review

Activity -1-(5 minutes)

Audience suggest two terms and the relevant MeSH are identified.

Automatic Term Mapping

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Other Animals	PMID: 23011807 [PubMed - as supplied by publisher] <u>Related citations</u>	autism review
Clinical Trial Meta-Analysis Practice Guideline Bandomized Controlled Trial	 Executive and Visuo-motor Function in Adolescents and Adults with Autism Spectrum Disorder. Sachse M, Schlitt S, Hainz D, Ciaramidaro A, Schirman S, Walter H, Poustka F, Bölte S, Freitag CM. J Autism Dev Disord. 2012 Sep 26. [Epub ahead of print] 	autism genetics PMC Images search for autism
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Automatic Term Mapping

Search Details

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Article types Clinical Trial Meta-Analysis	Executive and Visuo-motor Function in Adolescents and Adults with Autism Spectrum Disorder.	autism genetics
Practice Guideline Randomized Controlled Trial Review	 Sachse M, Schitt S, Hainz D, Claramidaro A, Schirman S, Waiter H, Poustka F, Bolte S, Freitag CM. J Autism Dev Disord. 2012 Sep 26. [Epub ahead of print] PMID: 23011252 [PubMed - as supplied by publisher] Related citations 	PMC Images search for autism
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Building Blocks



Autism And Saudi



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Abstract available Free full text available	Mechanism of nitrogen metabolism-related parameters and enzyme activities in the pathophysiology	Autism in Saudi Arabia: presentation, clinical correlates and comor [Transcult Psychiatry. 2009]
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Autism Not Saudi



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Autism and (Saudi or Arabs)



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Building the Search

Before you can search for any information, you should first **develop a search strategy**.

What is a Search Strategy?

A search strategy is a plan that helps you look for the information you need.

Search Strategy Tips

- Identify the key concepts.
- Determine alternative terms for these concepts, if needed.
- Refine your search to dates, study groups, etc., as appropriate.
- Practice helps. Strategies and styles will differ according to personal choice and professional discipline.

Activity-2-(15 minutes)

Building a Search Strategy Exercise

Managing the Results

- Understand the layout of the search results screen.
- Move between pages of results.
- Change the display of the retrieved citations.
- Adjust the number of citations displayed on a page.
- Sort your results.
- E-mail, download and print selected citations.
- Save selected citations to the Clipboard and Collections.
- Create your Bibliography.
- Set up filters for your results.

Understand the layout of the search results screen.

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Free full text available Full text available	 Mechanism of nitrogen metabolism-related parameters and enzyme activities in the pathophysiology of autism. 	correlates and comoi [Transcult Psychiatry. 2009] G6PD deficiency in autism : a case-series from
Publication	Abu Shmais GA, Al-Ayadhi LY, Al-Dbass AM, El-Ansary AK.	Saudi Arabia. [Eur Child Adolesc Psychiatry]
dates 5 years	J Neurodev Disord. 2012 Feb 13;4(1):4. PMID: 22958401 [PubMed - in process] Free PMC Article	Autoimmune connection of autism in Central Saudi Arabia. [Neurosciences (Riyadh). 2005]
10 years	Related citations	See more
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Species Humans	2. <u>autoimmunity.</u> Mostafa GA, Al-Ayadhi LY.	18 free full-text articles in PubMed Central
Article types	J Neuroinflammation. 2012 Aug 17;9:201. PMID: 22898564 [PubMed - in process] Free Article	Mechanism of nitrogen metabolism-related parameters and enzym [J Neurodev Disord. 2012]
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Text availability Abstract available Free full text available Full text available Publication dates 5 years 10 years	 Results: 1 to 20 of 38 Mechanism of nitrogen metabolism-related parameters and enzyme a of autism. Abu Shmais GA, Al-Ayadhi LY, Al-Dbass AM, El-Ansary AK. J Neurodev Disord. 2012 Feb 13;4(1):4. PMID: 22958401 [PubMed - in process] Free PMC Article Related citations 	Choose Destination File Collections Order Citation manager Citation manager Ci
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