



Pubmed : a bibliographic database

EURORDIS Online Training

David OZIEL
EURORDIS





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PubMed comprises more than 20 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

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2

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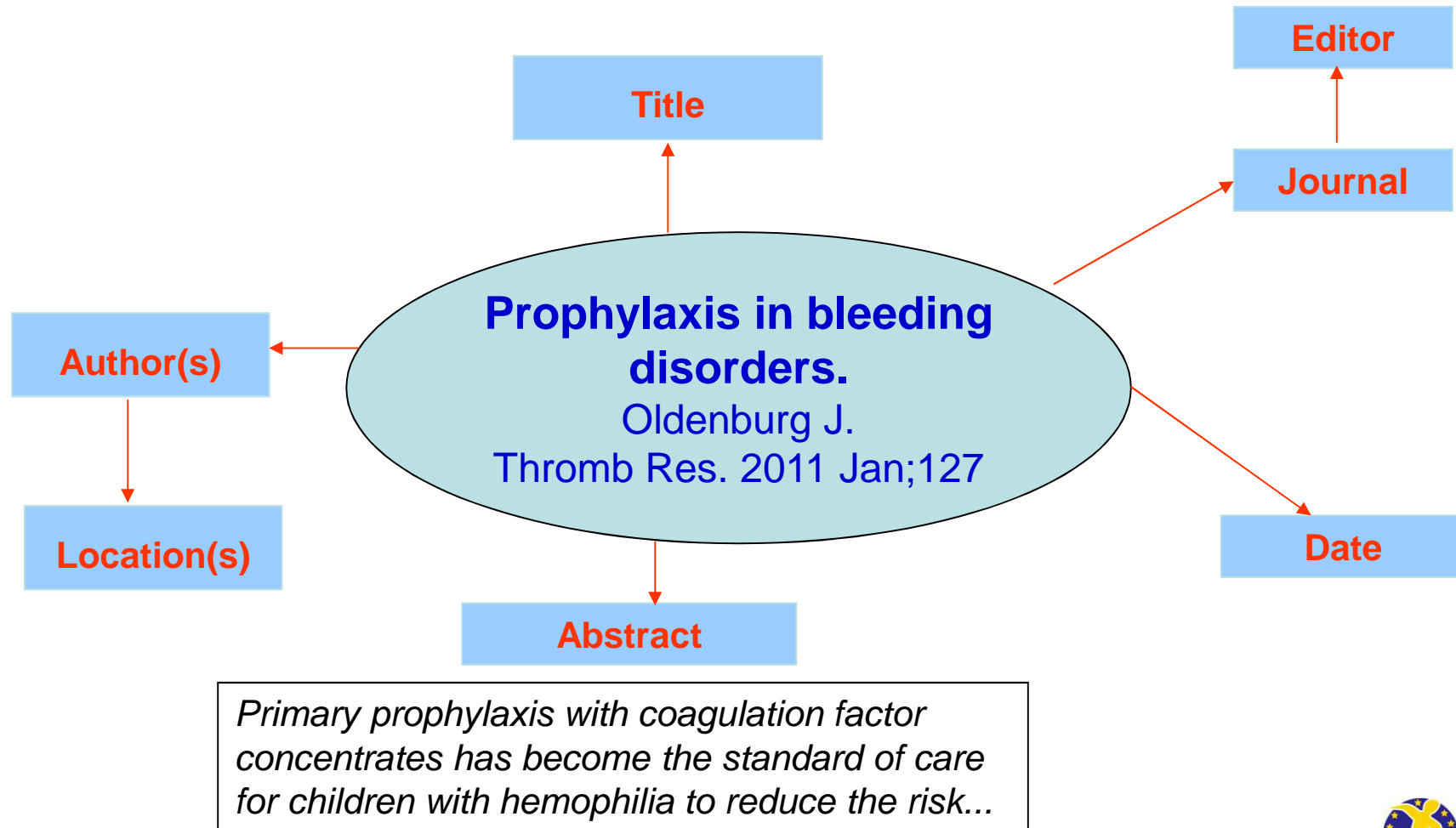
EURORDIS
Rare Diseases Europe

Characteristics of Pubmed

- **Bibliographic database**
- **Life sciences**
- **Biomedical information**
- **NLM (National Library of Medicine, 1836)**

Organisation and indexation of a database

Pubmed



- **1997**
- **Biomedical domain**
 - **medicine, biology, pharmacy, public health,...**
- **20 million citations, 5, 500 journals, 40 languages**
- **+ 2 million Web searches / day**

Part 2

MeSH® thesaurus

Thesaurus

- **Collection of keywords (concepts)**
- **Hierarchy**
- **Synonyms**

- **Description**


- **Search**

- **Medical Subject Headings**
- **National Library of Medicine**
- **Pubmed**
- **Indexation**
 - + MeSH® terms

1. **+ Anatomy [A]**
2. **+ Organisms [B]**
3. **+ Diseases [C]**
4. **+ Chemicals and Drugs [D]**
5. **+ Analytical, Diagnostic and Therapeutic Techniques and Equipment [E]**
6. **+ Psychiatry and Psychology [F]**
7. **+ Phenomena and Processes [G]**
8. **+ Disciplines and Occupations [H]**
9. **+ Anthropology, Education, Sociology and Social Phenomena [I]**
10. **+ Technology, Industry, Agriculture [J]**
11. **+ Humanities [K]**
12. **+ Information Science [L]**
13. **+ Named Groups [M]**
14. **+ Health Care [N]**
15. **+ Publication Characteristics [V]**
16. **+ Geographicals [Z]**

Bacterial Infections and Mycoses [C01] +
Virus Diseases [C02] +
Parasitic Diseases [C03] +
Neoplasms [C04] +
Musculoskeletal Diseases [C05] +
Digestive System Diseases [C06] +
Stomatognathic Diseases [C07] +
Respiratory Tract Diseases [C08] +
Otorhinolaryngologic Diseases [C09] +
Nervous System Diseases [C10] +
Eye Diseases [C11] +
Male Urogenital Diseases [C12] +
Female Urogenital Diseases and Pregnancy Complications [C13] +
Cardiovascular Diseases [C14] +
Hemic and Lymphatic Diseases [C15] +
Congenital, Hereditary, and Neonatal Diseases and Abnormalities [C16] +
Skin and Connective Tissue Diseases [C17] +
Nutritional and Metabolic Diseases [C18] +
Endocrine System Diseases [C19] +
Immune System Diseases [C20] +
Disorders of Environmental Origin [C21] +
Animal Diseases [C22] +
Pathological Conditions, Signs and Symptoms [C23] +

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PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

for

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All: 1

- If making selections (e.g., Subheadings, etc.), use the [Send to Search Box](#) feature to see PubMed records with those specifications.
- Select PubMed under the Links menu to retrieve all records for the MeSH Term.
- Select [NLM MeSH Browser](#) under the Links menu for additional information.

Scope note

☐ 1: **Amyotrophic Lateral Sclerosis** [Links](#)

A degenerative disorder affecting upper MOTOR NEURONS in the brain and lower motor neurons in the brain stem and SPINAL CORD. Disease onset is usually after the age of 50 and the process is usually fatal within 3 to 6 years. Clinical manifestations include progressive weakness, atrophy, FASCICULATION, hyperreflexia, DYSARTHRIA, dysphagia, and eventual paralysis of respiratory function. Pathologic features include the replacement of motor neurons with fibrous ASTROCYTES and atrophy of anterior SPINAL NERVE ROOTS and corticospinal tracts. (From Adams et al., Principles of Neurology, 6th ed, pp1089-94)

Amyotrophic Lateral Sclerosis

[All MeSH Categories](#)

[Diseases Category](#)

[Nervous System Diseases](#)

[Central Nervous System Diseases](#)

[Spinal Cord Diseases](#)

Amyotrophic Lateral Sclerosis

[All MeSH Categories](#)

[Diseases Category](#)

[Nervous System Diseases](#)

[Neurodegenerative Diseases](#)

[Motor Neuron Disease](#)

Amyotrophic Lateral Sclerosis

[All MeSH Categories](#)

[Diseases Category](#)

[Nervous System Diseases](#)

[Neuromuscular Diseases](#)

[Motor Neuron Disease](#)

Amyotrophic Lateral Sclerosis

Entry Terms:



- Lateral Scleroses, Amyotrophic
- Sclerosis, Amyotrophic Lateral
- Gehrig's Disease
- Gehrig Disease
- Gehrings Disease
- Motor Neuron Disease, Amyotrophic Lateral Sclerosis
- Lou Gehrig's Disease
- Lou-Gehrings Disease
- Disease, Lou-Gehrings
- ALS (Amyotrophic Lateral Sclerosis)
- Lou Gehrig Disease
- Amyotrophic Lateral Sclerosis, Guam Form
- Guam Form of Amyotrophic Lateral Sclerosis
- Amyotrophic Lateral Sclerosis-Parkinsonism/dementia Complex 1
- Amyotrophic lateral sclerosis, Parkinsonism/Dementia complex of Guam
- Amyotrophic Lateral Sclerosis With Dementia
- Dementia With Amyotrophic Lateral Sclerosis

Subheadings:



- | | | |
|--|--|--|
| <input type="checkbox"/> blood | <input type="checkbox"/> etiology | <input type="checkbox"/> psychology |
| <input type="checkbox"/> cerebrospinal fluid | <input type="checkbox"/> genetics | <input type="checkbox"/> radiography |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> history | <input type="checkbox"/> radionuclide imaging |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> complications | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> rehabilitation |
| <input type="checkbox"/> congenital | <input type="checkbox"/> metabolism | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> microbiology | <input type="checkbox"/> surgery |
| <input type="checkbox"/> diet therapy | <input type="checkbox"/> mortality | <input type="checkbox"/> therapy |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> nursing | <input type="checkbox"/> transmission |
| <input type="checkbox"/> economics | <input type="checkbox"/> pathology | <input type="checkbox"/> ultrasonography |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> physiology | <input type="checkbox"/> urine |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> physiopathology | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> ethnology | <input type="checkbox"/> prevention and control | <input type="checkbox"/> virology |

Neurotherapeutics. 2011 Jan;8(1):63-71.

Neuroimaging in amyotrophic lateral sclerosis.

Wang S, Melhem ER, Poptani H, Woo JH.

Division of Neuroradiology, Department of Radiology, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania 19104, USA.
Sumei.Wang@uphs.upenn.edu

Abstract

Amyotrophic lateral sclerosis (ALS) is a motor neuron disease characterized by progressive degeneration of upper motor neurons (UMN) and lower motor neurons (LMN). While LMN dysfunction can be confirmed by electromyography (EMG) and muscle biopsy, UMN involvement is more difficult to detect, particularly in the early phase. Objective and sensitive measures of UMN dysfunction are needed for early diagnosis and monitoring of disease progression and therapeutic efficacy. Advanced magnetic resonance imaging (MRI) techniques, such as diffusion, perfusion, magnetization transfer imaging, functional MRI, and MR spectroscopy, provide insight into the pathophysiological processes of ALS and may have a role in the identification and monitoring of UMN pathology. This article provides an overview of these neuroimaging techniques and their potential roles in ALS.

PMID: 21274686 [PubMed - indexed for MEDLINE]

Publication Types, MeSH Terms, Grant Support

Publication Types

Research Support, N.I.H., Extramural

Review

MeSH Terms

Amyotrophic Lateral Sclerosis/diagnosis*

Humans

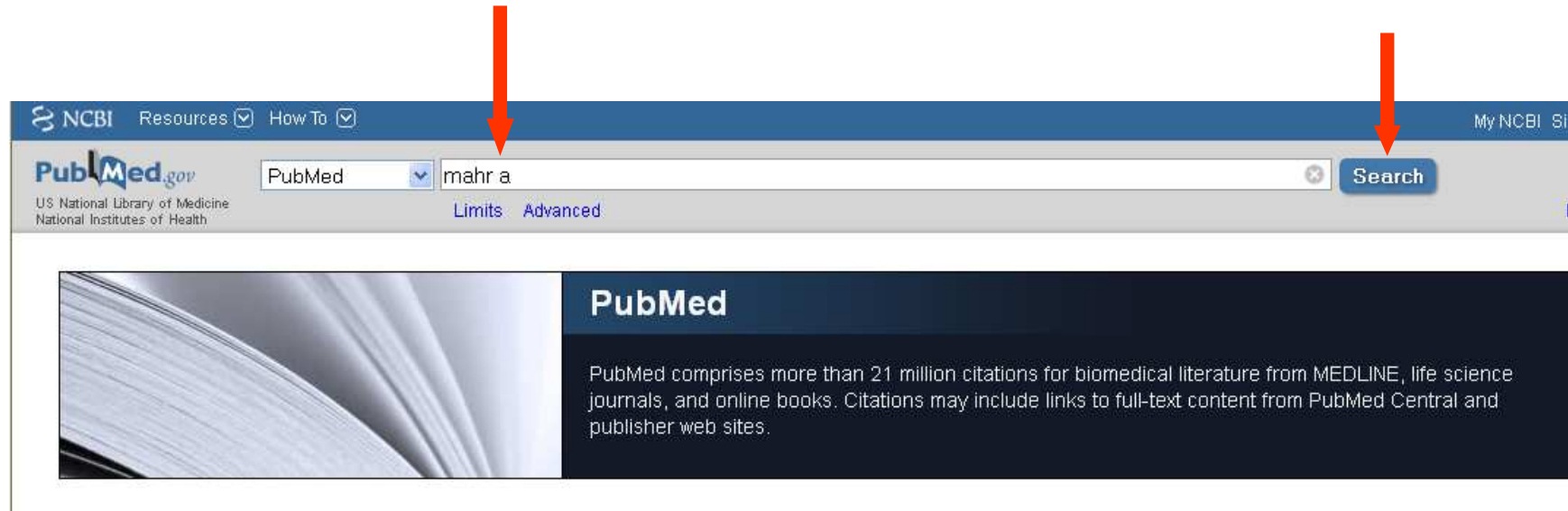
Magnetic Resonance Imaging/methods*



Part 3

Search without the MeSH®

Search by author



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Results: 1 to 20 of 103

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All (103)

Free Full Text (42)

Review (17)

☐ [\[Rituximab to treat ANCA-associated vasculitis\].](#)

1. Guillevin L, **Mahr A**.
Rev Med Interne. 2011 Oct;32(10):591-3. Epub 2011 Aug 26. French. No abstract available.
PMID: 21872370 [PubMed - in process]
[Related citations](#)

☐ [Treating polyarteritis nodosa: current state of the art.](#)

2. de Menthon M, **Mahr A**.
Clin Exp Rheumatol. 2011 Jan-Feb;29(1 Suppl 64):S110-6. Epub 2011 May 11. Review.
PMID: 21586205 [PubMed - indexed for MEDLINE]
[Related citations](#)

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Mahr calls for 'one health' initiative.
[J Am Vet Med As

[The prognosis of acute diffuse glomerul
in childhood; supp [Dtsch Med Wochen

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Search by subject

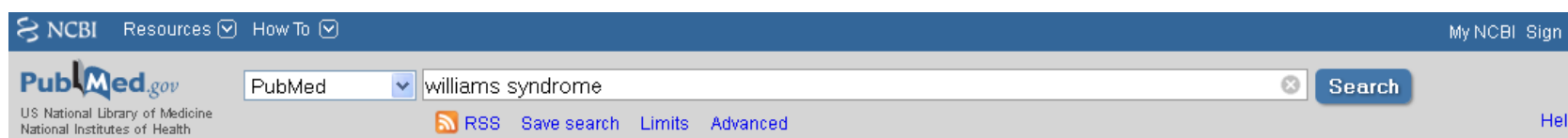


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- williams syndrome and anesthesia
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- williams syndrome dental
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[Free Full Text \(1166\)](#)

[Review \(570\)](#)

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Database:

Search details

"williams syndrome"[MeSH Terms]
OR ("williams"[All Fields] AND
"syndrome"[All Fields]) OR
"williams syndrome"[All Fields]

Results: 21 to 40 of 4787

<< First < Prev Page 2 of 240 Next > Last >>

☐ [Using novel control groups to dissect the amygdala's role in Williams Syndrome.](#)

21. Thornton-Wells TA, Avery SN, Blackford JU.

Dev Cogn Neurosci. 2011 Jul;1(3):295-304.

PMID: 21731599 [PubMed]

[Related citations](#)

☐ [Sleep in children with Williams Syndrome.](#)

22. Mason TB, Arens R, Sharman J, Bintliff-Janisak B, Schultz B, Walters AS, Cater JR, Kaplan P, Pack AI.

Sleep Med. 2011 Sep 20. [Epub ahead of print]

PMID: 21940205 [PubMed - as supplied by publisher]

[Related citations](#)

☐ [Preliminary evidence of abnormal white matter related to the fusiform gyrus in Williams syndrome: A diffusion tensor imaging tractography study.](#)

23. Haas BW, Hoeff F, Barnea-Goraly N, Golarai G, Bellugi U, Reiss A.

Genes Brain Behav. 2011 Sep 21. doi: 10.1111/j.1601-183X.2011.00733.x. [Epub ahead of print]

PMID: 21939500 [PubMed - as supplied by publisher]

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All (13893)

[Free Full Text \(1910\)](#)

[Review \(1444\)](#)

☐ [The ancient Egyptian dwarfs of the pyramids: The high official and the female worker.](#)

1. Kozma C, Sarry El Din AM, El Shafy El Banna RA, El Samie Kandeel WA, Lachman R.
Am J Med Genet A. 2011 Jun 14. doi: 10.1002/ajmg.a.34038. [Epub ahead of print]

PMID: 21674771 [PubMed - as supplied by publisher]

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☒ [Neuropathology of fetal stage Seckel syndrome: A case report providing a morphological correlate for the emerging molecular mechanisms.](#)

2.

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Tutorial

Search details


"dwarfism"[MeSH Terms] OR
 "dwarfism"[All Fields] OR
 "nanism"[All Fields]


Dwarfism

A genetic or pathological condition that is characterized by short stature and undersize. Abnormal skeletal growth usually results in an adult who is significantly below the average height.

Entry Terms:


- Nanism





PubMed

sarcosinemia


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☐
[\[Elevated serum creatinine without discernible kidney disease\].](#)

1. Schley G, Höfliger N, Vogt M.
Dtsch Med Wochenschr. 2009 Mar;134(13):629-31. Epub 2009 Mar 17. German.
PMID: 19294604 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐
[Rare neurodevelopmental abnormalities of sarcosinemia may involve glycinergic stimulation of a primed N-methyl-D-aspartate receptor.](#)

2. Deutsch SI, Rosse RB, Long KD, Gaskins B, Mastropaolo J.
Clin Neuroparmacol. 2006 Nov-Dec;29(6):361-3. Review.
PMID: 17095900 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐
[\[Molecular cloning of the human dimethylglycine dehydrogenase-like gene \(DMGDHL1\) from the sarcosinemia critical region at 9q34\].](#)

3. Xia JH, Yu KP, Liu CY, Pan Q, Zheng D, Dai HP.
Yi Chuan Xue Bao. 1999;26(6):591-7. Chinese.
PMID: 10876657 [PubMed - indexed for MEDLINE]
[Related citations](#)

☐
[Cloning and mapping of the cDNA for human sarcosine dehydrogenase, a flavoenzyme defective in patients with sarcosinemia.](#)

4. Eschenbrenner M, Jorns MS.
Genomics. 1999 Aug 1;59(3):300-8.

CONCLUSION: In a patient with sarcosinemia a dry chemical enzyme analysis which is often used by high creatinine levels. When suspecting sarcosinemia, serum creatinine should be checked against

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sar: a genetic mouse model for human **sarcosinemia** ger [Proc Natl Acad Sci U S A. 199

Increased prevalence of hereditary metabolic diseases among native Indians in Mex [CMAJ. 199

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sarcosinemia[All Fields]

Automatic term mapping

MeSH terms

Entry terms

All fields

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syndrom
e



Williams
syndrome

Nanism

Dwarfism



Nanism

Sarcosinemi
a



Sarcosinemia

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[Granulomatosis with polyangiitis \(Wegener's\): an alternative name for Wegener's granulomatosis.](#)

1. Falk RJ, Gross WL, Guillevin L, Hoffman GS, Jayne DR, Jennette JC, Kallenberg CG, Luqmani R, Mahr AD, Matteson EL, Merkel PA, Specks U, Watts RA; American College of Rheumatology; American Society of Nephrology; European League Against Rheumatism.
Arthritis Rheum. 2011 Apr;63(4):863-4. doi: 10.1002/art.30286. No abstract available.
PMID: 21374588 [PubMed - indexed for MEDLINE]
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[Granulomatosis with polyangiitis \(Wegener's\): an alternative name for Wegener's granulomatosis.](#)

2. Falk RJ, Gross WL, Guillevin L, Hoffman G, Jayne DR, Jennette JC, Kallenberg CG, Luqmani R, Mahr AD, Matteson EL, Merkel PA, Specks U, Watts R.

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"health inequalities"

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health inequalities

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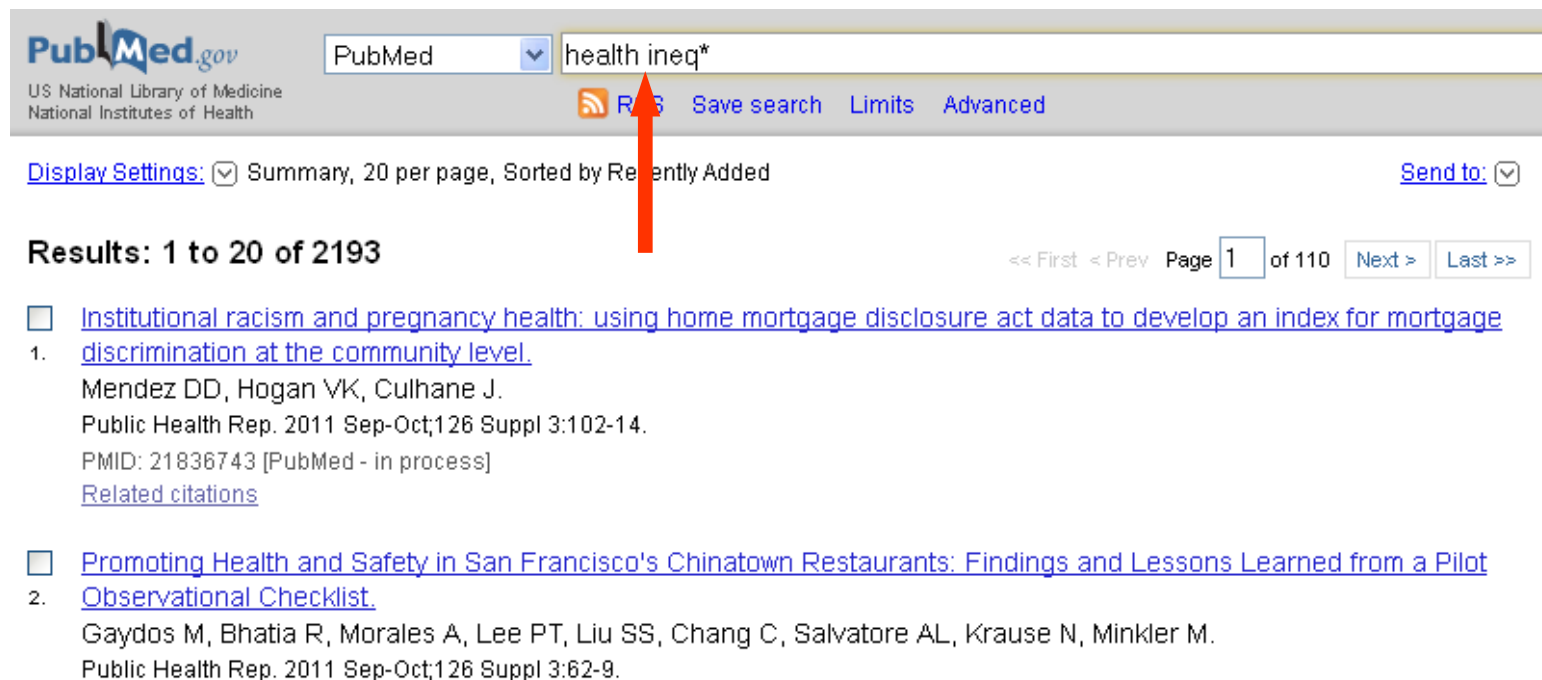
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☐ [Institutional racism and pregnancy health: using home mortgage disclosure act data to develop an index for mortgage discrimination at the community level.](#)
Mendez DD, Hogan VK, Culhane J.
Public Health Rep. 2011 Sep-Oct;126 Suppl 3:102-14.
PMID: 21836743 [PubMed - in process]
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☐ [Promoting Health and Safety in San Francisco's Chinatown Restaurants: Findings and Lessons Learned from a Pilot Observational Checklist.](#)
Gaydos M, Bhatia R, Morales A, Lee PT, Liu SS, Chang C, Salvatore AL, Krause N, Minkler M.
Public Health Rep. 2011 Sep-Oct;126 Suppl 3:62-9.

Search details



```
health inequalities[All Fields]
OR health inequality[All
Fields] OR health
inequalities[All Fields] OR
health inequities[All Fields]
OR health inequity[All Fields]
```

Search using operators

The screenshot shows the PubMed.gov search interface. The search bar contains 'ehlers danlos pregnancy'. The search results are displayed in a list format. The first result is 'Ehlers Danlos Syndrome Type IV and pregnancy' by Hammond R, Oligbo N. The second result is 'Joint hypermobility syndrome. Implications for obstetric care' by Molloy M. The search details panel is open, showing the search query: 'ehlers[All Fields] AND danlos[All Fields] AND "pregnancy"[MeSH Terms]'. A red arrow points from the search bar to the search details panel. Another red arrow points from the search details panel to the search results list.

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Search: PubMed
ehlers danlos pregnancy
Search Clear

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<< First < Prev Page 1 of 9 Next > Last >>

☐ [Ehlers Danlos Syndrome Type IV and pregnancy.](#)
1. Hammond R, Oligbo N.
Arch Gynecol Obstet. 2011 May 3. [Epub ahead of print]
PMID: 21538010 [PubMed - as supplied by publisher]
[Related citations](#)

☐ [Joint hypermobility syndrome. Implications for obstetric care.](#)
2. Molloy M.
BMJ. 2011 Feb 15;342:d1003. doi: 10.1136/bmj.d1003. No abstract available.
PMID: 21324988 [PubMed - indexed for MEDLINE]
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Search details
ehlers[All Fields] AND
danlos[All Fields] AND
"pregnancy"[MeSH Terms]




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All (474)

[Free Full Text \(55\)](#)

[Review \(51\)](#)

☐ [Nuclear medicine techniques in the assessment of alkaptonuria.](#)

1. Vinjamuri S, Ramesh CN, Jarvis J, Gallagher JA, Ranganath LL.
Nucl Med Commun. 2011 Oct;32(10):880-6.
PMID: 21876398 [PubMed - in process]
[Related citations](#)

☐ [An unusual dark pigmentation on the tympanic membrane.](#)

2. Sagit M, Uludag M, San I.
J Laryngol Otol. 2011 Aug 5;1-3. [Epub ahead of print]
PMID: 21816121 [PubMed - as supplied by publisher]
[Related citations](#)

Clinical Queries results

Refine search results to clinic
Sample results:

A novel ex vivo organotypic culture of
[alkaptonuria-ochronosis](#) [Clin Ex

A quantitative assessment of a
Testing the reliability of t [J Inhe

Search Details

Query Translation:

```

("alkaptonuria"[MeSH Terms] OR "alkaptonuria"[All Fields])
AND
("diagnosis" OR "therapy" OR "treatment" OR therapeutics")
    
```

Search using limits



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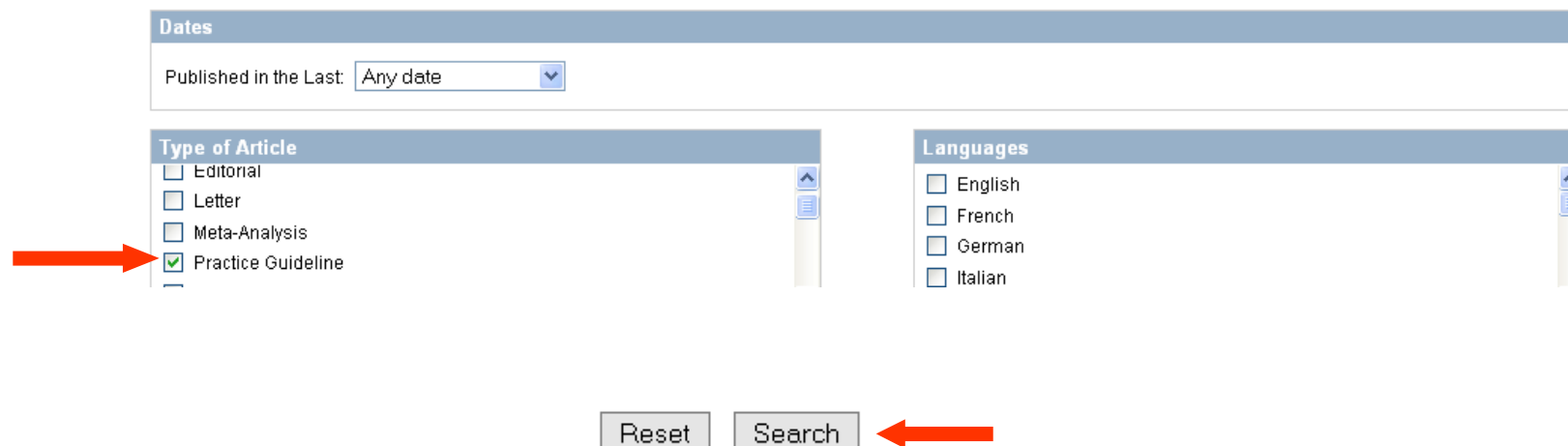
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Limits



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Type of Article

- ☐ Editorial
- ☐ Letter
- ☐ Meta-Analysis
- ☒ Practice Guideline

Languages

- ☐ English
- ☐ French
- ☐ German
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Results: 1 to 20 of 45

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☐ [Guideline on the management of **haemophilia** in the fetus and neonate.](#)

1. Chalmers E, Williams M, Brennand J, Liesner R, Collins P, Richards M; Paediatric Working Party of United Kingdom

Haemophilia Doctors' Organization.

Br J Haematol. 2011 Jul;154(2):208-15. doi: 10.1111/j.1365-2141.2010.08545.x. Epub 2011 May 9. Review.

PMID: 21554256 [PubMed - indexed for MEDLINE]

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☐ [Secondary prophylaxis with rFVIIa in **hemophilia** and inhibitors: recommendations from an experts committee from](#)

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Part 4

Search with the MeSH®

- **Identifying the exact MeSH term and getting detailed information on it**
 - **Accessing to Pubmed specific citations**
 - **Limiting a search to main citations**
 - **Combining MeSH terms**
 - **Building precise queries**
-

- **Identifying the exact MeSH term and getting detailed information on it**
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