

Proximity Searching in PubMed

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Agenda



What is proximity searching?



Proximity searching examples



How do I create a proximity search in PubMed?



Q&A

Proximity Searching

- Search for multiple terms appearing in any order within a specified distance of one another in the [Title] or [Title/Abstract] fields.
- Proximity searching can be particularly helpful when searching for concepts that may be represented in multiple ways, or to capture variations of a phrase.

Patient Physician Relationship

Patient-physician relationship - Communication is the key.

Honavar SG.

Indian

PMID: **The Physician-Patient Relationship.**

Derse AR.

N Engl J Med. 2022

PMID: 35984346

The patient-parent-physician relationship.

Elster A, Staunton P.

Virtual Mentor. 2002 Apr 1;5(4):virtualmentor.2002.5.4.ccas1.0204. doi:

10.1007/s10020-002-0004-0 **Impact of social media for the hematologist/oncologist.**

PMID: Abuhadra N, Majhail NS, Nazha A.

Semin Hematol. 2017 Oct;54(4):193-197. doi: 10.1053/j.seminhematol.2017.07.003. Epub 2017 Sep 18.

PMID: 29153080 Review.

In the era of modern communication, the **physician and patient relationship** has evolved to include an entirely new dimension-social media. ...However, these advantages come with challenges such as threats

Proximity Search Syntax

"search terms"[field:~N]

- search terms = Two or more words enclosed in double quotes
- field = The search field tag for the [Title] or [Title/Abstract] fields
- N = The maximum number of words that may appear between your search terms

Proximity Search Syntax

(continued-2)

"search terms"[field:~N]

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Proximity Search Syntax

(continued-3)

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(continued-4)

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Proximity Search Syntax

(continued-5)

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Proximity Search Syntax

(continued-6)

"search terms"[field:~**N**]

- search terms = Two or more words enclosed in double quotes
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Searching for citations where “hip” and “pain” appear in the Title/Abstract field with no more than 2 words between them



"hip pain"[title/abstract:~2]



Search

Advanced

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Searching for citations where “hip” and “pain” appear in the Title/Abstract field with no more than 2 words between them (continued-2)



4

Cite

Share

Consensus recommendations on the classification, definition and diagnostic criteria of **hip-related pain** in young and middle-aged active adults from the International **Hip-related Pain** Research Network, Zurich 2018.

Reiman MP, Agricola R, Kemp JL, Heerey JJ, Weir A, van Klij P, Kassarian A, Mosler AB, Ageberg E, Hölmich P, Warholm KM, Griffin D, Mayes S, Khan KM, Crossley KM, Bizzini M, Bloom N, Casartelli NC, Diamond LE, Di Stasi S, Drew M, Friedman DJ, Freke M, Gojanovic B, Glyn-Jones S, Harris-Hayes M, Hunt MA, Impellizzeri FM, Ishøi L, Jones DM, King MG, Lawrenson PR, Leunig M, Lewis CL, Mathieu N, Moksnes H, Risberg MA, Scholes MJ, Semciw AI, Serner A, Thorborg K, Wörner T, Dijkstra HP.

Br J Sports Med. 2020 Jun;54(11):631-641. doi: 10.1136/bjsports-2019-101453. Epub 2020 Jan 20.

PMID: 31959678

There is no agreement on how to classify, define or diagnose **hip-related pain**—a common cause of **hip** and groin **pain** in young and middle-aged active adults. This complicates the work of clinicians and researchers. The International **Hip**-related ...

Searching for citations where “hip” and “pain” appear in the Title/Abstract field with no more than 2 words between them (continued-3)



14

Effectiveness of Dry Needling Therapy on **Pain, Hip** Muscle Strength, and Physical Function in Patients With **Hip** Osteoarthritis: A Randomized Controlled Trial.

Cite

Ceballos-Laita L, Jiménez-Del-Barrio S, Marín-Zurdo J, Moreno-Calvo A, Marín-Boné J, Albarova-Corral MI, Estébanez-de-Miguel E.

Share

Arch Phys Med Rehabil. 2021 May;102(5):959-966. doi: 10.1016/j.apmr.2021.01.077. Epub 2021 Feb 7. PMID: 33567336 Clinical Trial.

OBJECTIVE: To investigate the short-term effects of dry needling (DN) on physical function, **pain**, and **hip** muscle strength in patients with **hip** osteoarthritis (OA). ...The DN group showed within- and between-groups large effect sizes ($d > 0.8$). CONCLUSIONS: D ...

“Quoted phrase not found in phrase index”

Use N=0 to find citations with terms directly next to each other



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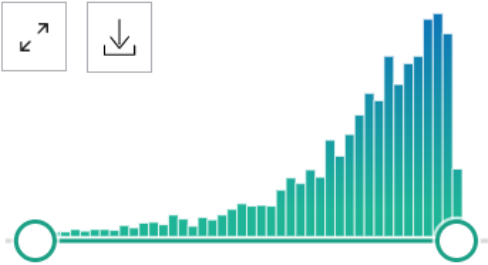
Sorted by: Most recent

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2,642 results

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RESULTS BY YEAR



☐ **The Effects of SARS-CoV-2 Infection on the Cognitive Functioning of Patients with Pre-Existing Dementia.**

Cite

Dubey S, Das S, Ghosh R, Dubey MJ, Chakraborty AP, Roy D, Das G, Dutta A, Santra A, Sengupta S, Benito-León J.

Share

J Alzheimers Dis Rep. 2023 Feb 14;7(1):119-128. doi: 10.3233/ADR-220090. eCollection 2023.

Quoted phrase not found in phrase index: "cognitive impairment in multiple sclerosis patients"

“Quoted phrase not found in phrase index”

Use N=0 to find citations with terms directly next to each other (continued-2)



"cognitive impairment in multiple sclerosis patients"[title/abstract:~0]



Search

Advanced

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“Quoted phrase not found in phrase index”

Use N=0 to find citations with terms directly next to each other (continued-3)

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"cognitive impairment in multiple sclerosis patients"[title/abstract:~0] × **Search**

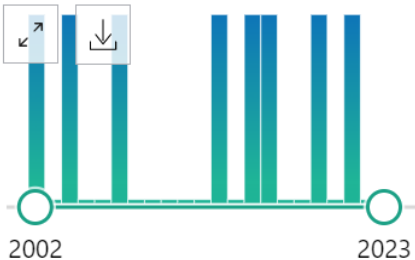
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8 results ⏪ ⏩ Page 1 of 1 ⏪ ⏩

RESULTS BY YEAR



2002 2023

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ 1 **The Expanded Disability Status Scale Score and Demographic Indexes Are Correlated with the Severity of Cognitive Impairment in Multiple Sclerosis Patients.**

Cite Sadigh-Eteghad S, Abbasi Garavand N, Feizollahi M, Talebi M.

Share J Clin Neurol. 2021 Jan;17(1):113-120. doi: 10.3988/jcn.2021.17.1.113.

PMID: 33480206 [Free PMC article.](#)

BACKGROUND AND PURPOSE: Cognitive impairment (CI) is a common symptom of multiple sclerosis (MS). ...METHODS: This study enrolled 115 MS patients. Cognitive performance was assessed using the Minimal Assessment of Cognitive Function ...

☐ 2 **The correlation between dyslipidemia and cognitive impairment in multiple sclerosis patients.**

“Quoted phrase not found in phrase index”

Use N=0 to find citations with terms directly next to each other (continued-4)

PubMed Advanced Search Builder

 [User Guide](#)

Add terms to the query box

All Fields ▾

Enter a search term

AND ▾

[Show Index](#)

Query box

"cognitive impairment"[title/abstract] AND "multiple sclerosis patients"[title/abstract] X

Search ▾

“Quoted phrase not found in phrase index”

Use N=0 to find citations with terms directly next to each other (continued-5)

PubMed®

"cognitive impairment"[title/abstract] AND "multiple sclerosis patients"[title/abstract]

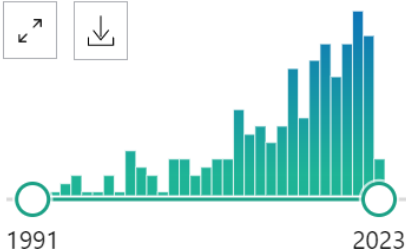
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Sorted by: Most recent

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181 results Page of 19

RESULTS BY YEAR



1991 2023

TEXT AVAILABILITY

☐ Abstract

☐ Free full text

☐ 1 Patient-reported outcome measurements in a selective cohort of relapsing-remitting **multiple sclerosis patients**: relationships with physical disability, **cognitive impairment**, and MRI-derived metrics.

Cite London F, El Sankari S, De Haan A, Benyahia Z, Landenne G, Duprez T, van Pesch V.

Share Acta Neurol Belg. 2023 Mar 6. doi: 10.1007/s13760-023-02225-x. Online ahead of print.

PMID: 36877357

BACKGROUND: The added value of patient-reported outcome measures (PROMs) in addition to standard clinical outcome tools in the assessment of relapsing-remitting **multiple sclerosis** (RRMS) **patients'** status is increasingly recognized. ...A cross-sectional logist ...

☐ 2 Early Predictors of Disability and Cognition in **Multiple Sclerosis Patients**: A Long-Term Retrospective Analysis.

Getting Help with Proximity Searching



- **PubMed User Guide:**
<https://pubmed.gov/help/#proximity-searching>
- **Proximity Searching Tutorial:**
<https://www.nlm.nih.gov/oet/ed/pubmed/quick tours/proximity/index.html>
- **Proximity Searching Technical Bulletin:**
https://www.nlm.nih.gov/pubs/techbull/nd22/nd22/pubmed_proximity_search_available.html

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<https://support.nlm.nih.gov/>

Questions?

