

Recherche bibliographique: Améliorer la précision de la recherche sur Pubmed

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avec la collaboration du Dr Michel PROSPER

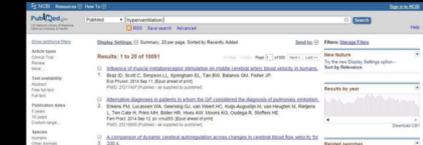
1ÈRE JOURNÉE MARSEILLAISE DE LA
SOCIÉTÉ DE KINÉSITHÉRAPIE DE RÉANIMATION

Medical Literature Analysis and Retrieval System Online

- base de données bibliographiques couvrant: *biologie, biochimie, médecine clinique, santé publique, éthique, économie, pharmacologie, psychiatrie, toxicologie, odontologie, médecine vétérinaire.*
- réalisée par la National Library of Medicine (NLM) du National Institute of Health
- > 25 millions titres depuis 1948 à partir de 5000 revues
- interface développée par le National Center for Biotechnology Information (NCBI) de la NLM.
- <http://www.ncbi.nlm.nih.gov/>

Pubmed n'est pas GOOGLE !

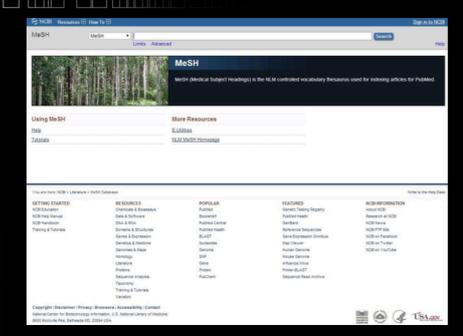
- Ce qu'il ne faut surtout pas faire: saisir sur PUBMED le terme recherché ... comme dans Google



- Pubmed fonctionne avec un langage spécifique et les recherches s'effectuent en écrivant des équations de recherche dans ce langage.

MESH (Medical Subject Headings).

- mots-clés ou descripteurs pour indexer les articles dans Medline.
- Ces termes hiérarchisés constituent un vocabulaire contrôlé et sont regroupés dans un thésaurus nommé le MeSH
- Pour éviter synonymies et redondances



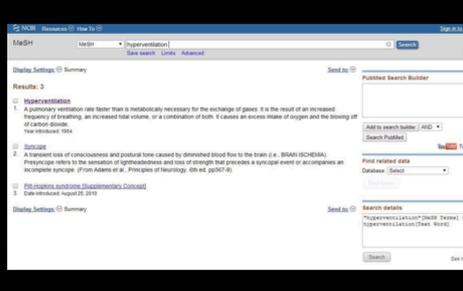
MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

Using MeSH:

MeSH Home | [Help](#) | [About](#) | [Feedback](#)

MeSH Term	MeSH Code	MeSH Term	MeSH Code
Abuse, Drug	D00007	Abuse, Sexual	D00008
Abuse, Substance	D00009	Abuse, Verbal	D00010
Abuse, Wife	D00011	Abuse, Wife, Child	D00012
Abuse, Wife, Child	D00013	Abuse, Wife, Parent	D00014
Abuse, Wife, Parent	D00015	Abuse, Wife, Spouse	D00016
Abuse, Wife, Spouse	D00017	Abuse, Wife, Sibling	D00018
Abuse, Wife, Sibling	D00019	Abuse, Wife, Spouse, Sibling	D00020
Abuse, Wife, Spouse, Sibling	D00021	Abuse, Wife, Spouse, Sibling, Parent	D00022
Abuse, Wife, Spouse, Sibling, Parent	D00023	Abuse, Wife, Spouse, Sibling, Spouse	D00024
Abuse, Wife, Spouse, Sibling, Spouse	D00025	Abuse, Wife, Spouse, Sibling, Spouse, Sibling	D00026
Abuse, Wife, Spouse, Sibling, Spouse, Sibling	D00027	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Parent	D00028
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Parent	D00029	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse	D00030
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse	D00031	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling	D00032
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling	D00033	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Parent	D00034
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Parent	D00035	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse	D00036
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Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling	D00045	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Parent	D00046
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Parent	D00047	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse	D00048
Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse	D00049	Abuse, Wife, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling, Spouse, Sibling	D00050

Chercher les articles sur le traitement du syndrome d'hyperventilation de moins de 5 ans



MeSH Home | [Help](#) | [About](#) | [Feedback](#)

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

Using MeSH:

MeSH Home | [Help](#) | [About](#) | [Feedback](#)

Chercher les articles 2014 sur le traitement du syndrome d'hyperventilation

• Les « Subheadings » ou « qualificatifs » : servent à préciser sur quels aspects doit porter la recherche

The screenshot shows the MeSH (Medical Subject Headings) interface. The search term 'Hyperventilation' is entered. Below it, a list of subheadings is displayed, including 'analysis', 'anatomy and histology', 'blood', 'cerebrospinal fluid', 'chemically induced', 'classification', 'complications', 'cytology', 'diagnosis', 'diet therapy', 'drug therapy', 'encycology', 'epidemiology', 'etiology', 'genetics', 'history', 'immunology', 'metabolism', 'microbiology', 'mortality', 'nursing', 'pathology', 'physiology', 'physiotherapy', 'prevention and control', 'psychology', 'radiography', 'radioisotope imaging', 'rehabilitation', 'statistics and numerical data', 'therapy', 'ultrasonography', 'urine', 'veterinary', and 'etiology'.

« Restrict Search to Major Topic headings only » : rechercher les articles dont « HYPERVENTILATION » est le sujet principal. Si cette case n'est pas cochée, la recherche sera étendue à tous les articles indexés avec ce mot-clé.

The screenshot shows the MeSH search interface with the 'Restrict to Major Topic' checkbox checked. The search term 'Hyperventilation' is entered. The interface shows the search results and the subheadings list.

« Do Not Include this term » : les termes sont classés par sujet et hiérarchisés, du plus général au plus précis dans le MeSH. Par défaut, la recherche va être étendue aux termes placés sous « HYPERVENTILATION ».

The screenshot shows the MeSH search interface with the 'Do not include MeSH terms found below this term' checkbox checked. The search term 'Hyperventilation' is entered. The interface shows the search results and the subheadings list.

« Clicker sur « Add to search builder » » ce qui va afficher dans le search builder (boîte de dialogue) l'expression MeSH de la recherche. Cliquer sur « Search Pubmed » pour lancer la recherche.

The screenshot shows the MeSH search interface with the 'Add to search builder' button highlighted. The search term 'Hyperventilation' is entered. The interface shows the search results and the subheadings list.

Résultat d'une 1^{ère} recherche PUBMED

The screenshot shows the PubMed search results page for the search term 'Hyperventilation'. The results are sorted by relevance. The first result is by Jones M, Harvey A, Marton L, Colwell ME. The second result is by Johnson T, Van S, Clark R. The third result is by Colburn S, Sawyer A. The fourth result is by Sawyer A, Clark R. The fifth result is by Johnson T, Van S, Clark R. The sixth result is by Johnson T, Van S, Clark R. The seventh result is by Johnson T, Van S, Clark R. The eighth result is by Johnson T, Van S, Clark R. The ninth result is by Johnson T, Van S, Clark R. The tenth result is by Johnson T, Van S, Clark R.

Utilisation de filtres

The screenshot shows the PubMed search results page with various filters applied. The filters include 'Article Types', 'Text availability', 'Publication dates', 'Species', and 'Custom range'. The search results are filtered accordingly.

« CiSMeF: pourquoi, comment »

→ Catalogue indexant les principaux sites et documents de santé francophones (depuis 1995)

- Classement thématique
- Classement alphabétique
- Accès par type de ressources

→ Utilisation du thésaurus MeSH pour organiser l'info

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PTS: Portail Terminologique de Santé

www.hetop.eu

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Exemple: « spasticité »

Libellé préféré
spasticité musculaire

Synonyme MeSH
Hypertonie musculaire phénomène du coup de canif spasticité cédant en lame de canif

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Synonymes

Définition du MeSH
A form of muscle hypertonia associated with upper MOTOR NEURON DISEASE. Resistance to passive stretch of a spastic muscle results in minimal initial resistance ("see interval") followed by an incremental increase in muscle tone. Tone increases in proportion to the velocity of stretch. Spasticity is usually accompanied by HYPERREFLEXIA and variable degrees of MUSCLE WEAKNESS. (From Adams et al., Principles of Neurology, 8th ed, p54)

Synonyme MeSH
Hypertonie musculaire spécifique Hypertonie pyramidale phénomène du coup de canif spasticité cédant en lame de canif
Clasp-knife spasticity Clasp-knife spasticity spastic spasticity, muscle

url (CiSMeF)
[CiSMeF](#) [CiSMeF](#)

Annotation MeSH
skeletal muscle only; note category: not physiological, spastic paralysis: coord NIM with PARALYSIS (M); spasticity in cerebral palsy: coord NIM with CEREBRAL PALSY only if muscle spasticity is especially discussed

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Pyramide de Kheops

> Reychler 4^{ème} JRKR 2011

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Question de départ ?

- ✓ Plus de pertinence, moins de références → **Information essentielle** à retenir → MeSH
- ✓ Moins de pertinence, plus de références → Plus de possibilités de trouver des informations sur des **aspects très spécifiques** → Construction d'équation de recherche (texte libre)

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→ Tout dépend de la question de départ!!
 Mais... comment l'établir?

1. Critères FINER

2. Critères PICO

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1. Critères FINER ≈ Question légitime?

F → *Feasible*

I → *Interesting*

N → *Novel*

E → *Ethical*

R → *Relevant* (pertinent)

-Scientifique?

-Clinique / santé publique?

-Futures recherches?

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2. Critères PICO ≈ Poser la question

P → *Patients*

I → *Intervention*

C → *Comparison*

O → *Outcomes*

Ex: Quels sont les effets de l'**électrostimulation (I)** sur la **récupération motrice et les capacités fonctionnelles (O)** des **patients hémiplegiques adultes suite à AVC (P)** par rapport aux techniques de mobilisation (C)?

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Opérateurs booléens: AND, OR, NOT

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Construction d'une équation de recherche

- Trouver les mots-clés et ses synonymes
- *Advanced search* sur Pubmed

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Exemple d'équation de recherche

- 1 : stroke
- 2 : hemiplegia
- 3 : hemiparesis
- 4 : cerebral vascular accident
- 5 : 1 OR 2 OR 3 OR 4
- 6 : muscle spasticity
- 7 : Muscle hypertonia
- 8 : 6 OR 7
- 9 : upper limb
- 10 : Upper extremity
- 11 : 9 OR 10
- 12 : electrical stimulation
- 13 : electric stimulation therapy
- 14 : NMES
- 15 : TENS
- 16 : 12 OR 13 OR 14 OR 15
- 17 : 5 AND 8 AND 11 AND 16

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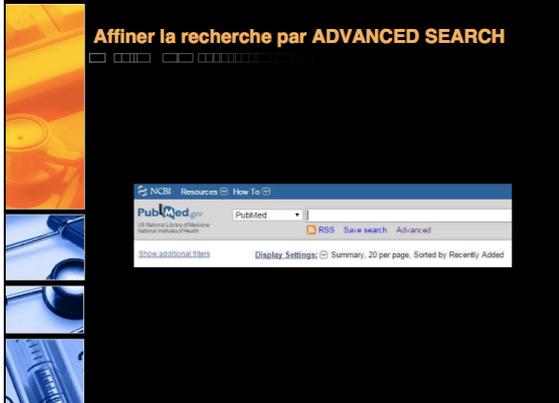
Question de départ?

(((((((electrical stimulation) OR electric stimulation therapy)) OR TENS) OR NMES)) AND (((upper limb) OR upper extremity)) AND ((muscle spasticity) OR muscle hypertonia)) AND (((stroke) OR hemiplegia) OR hemiparesis) OR cerebral vascular accident)

Quels sont les effets de l'électrothérapie sur la spasticité du membre supérieur chez le patient hémiplegique adulte suite à un AVC ?

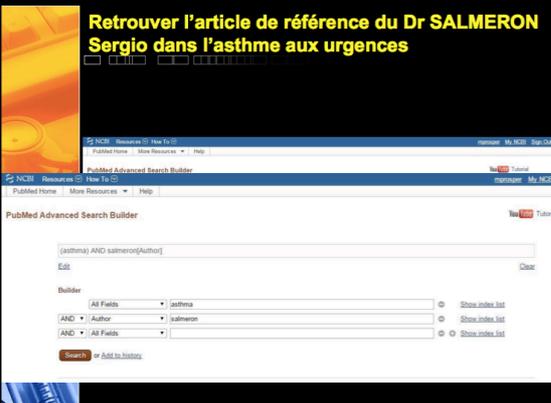
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Affiner la recherche par ADVANCED SEARCH



The screenshot shows the PubMed website with the search bar containing the query: (((((((((((electrical stimulation) OR electric stimulation therapy)) OR TENS) OR NMES)) AND (((upper limb) OR upper extremity)) AND ((muscle spasticity) OR muscle hypertonia)) AND (((stroke) OR hemiplegia) OR hemiparesis) OR cerebral vascular accident)))). The search results are displayed in a list format, showing the first few results with their titles and authors.

Retrouver l'article de référence du Dr SALMERON Sergio dans l'asthme aux urgences



The screenshot shows the PubMed Advanced Search Builder interface. The search query is entered as: ((asthma) AND salmeron[Author]). The interface includes fields for the search term, a search button, and options to add the search to history.

... c'est l'étude ASUR !



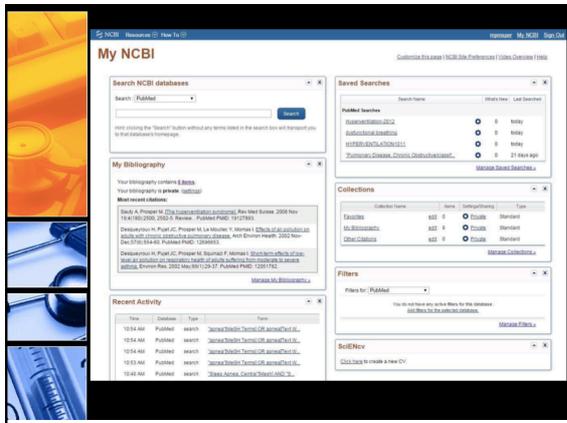
The screenshot shows the PubMed search results page for the query ((asthma) AND salmeron[Author]). The results are displayed in a list format, showing the first few results with their titles and authors. The first result is titled "ASUR: an overview of the organization of treatment of acute asthma in intensive care" by Salmeron S, et al.

Recherche avec la troncature

- La troncature: * à la fin d'une chaîne de caractères
- recherche les mots commençant par cette chaîne
- *Pubmed ne recherche que les 600 premières variations d'un terme tronqué.*

Créer un compte 'My NCBI'

- « My NCBI » permet de sauvegarder:
 - ses recherches
 - Ses références
 - d'enregistrer ses 'limites'
 - d'être averti par mail de nouvelles références
- cliquer sur « My NCBI »
- Entrer un nom, mot de passe, adresse e-mail
- Cliquer sur « Register »
- Confirmer l'inscription en cliquant sur le lien reçu dans votre boîte mail.



Info automatique sur les dernières publications concernant le SAS

- Organiser sa recherche
- MESH: apneus
- PUBMED

The screenshot shows a PubMed search results page for the query 'Sleep Apnea Syndromes'. It displays a list of search results with details such as article type, availability, and publication date.

Ouvrir son NCBI

Cliquer sur SAVE SEARCH

The screenshot shows the 'My NCBI Saved Searches' page. It displays a table of saved searches with columns for name, search terms, and a 'Save' button.

... et YES à 'email updates?'

The screenshot shows a dialog box titled 'Save Search successful'. It contains a 'Your PubMed search' section with a search term and a 'Would you like e-mail updates of new search results?' section with radio buttons for 'No, thanks' and 'Yes, please'.

Choisir ses variables de publication

The screenshot shows the 'Save Search Settings' dialog box. It includes fields for 'Name of saved search', 'Search terms', 'E-mail', and 'Frequency' (Weekly, Daily, etc.).

zotero

- Logiciel de gestion bibliographique
- Gratuit et collaboratif
- Disponible pour tous les OS (Windows, Mac, Linux)
- **Compatible avec Pubmed**
- Code les archives en .ris (compatible avec Mendeley)

> www.zotero.org

Navigateur vs « stand alone »

Zotero for Firefox

Zotero for Firefox lets you capture and organize all your research without ever leaving the browser.



Add a plugin for Word or LibreOffice

Zotero Standalone

Zotero Standalone runs as a separate application and plugs into your choice of browser.



Add one of the following browser extensions:

Plugins for Word and LibreOffice are included

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DES QUESTIONS???

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Références:

- Reychler G. La recherche bibliographique en pratique. 3^{ème} JRKR, Paris 2010. Disponible sur: http://www.spif.org/s/spip.php?action=acceder_document&arg=3376&cle=0aee12ee557178c4036728ccdca716ca47694f94&file=pdf%2F09RechBiblio_pratique.pdf
- Reychler G. Recherche bibliographique: comment aller à l'essentiel. 4^{ème} JRKR, Paris 2011. Disponible sur: http://www.spif.org/s/spip.php?action=acceder_document&arg=4371&cle=db5e14739ffb6977bdfef04a612d734dcae0ac1a&file=pdf%2FReychler4JRKR-2.pdf
- Regnaud JP, Guay V, Marsal C. Evidence based practice ou la pratique basée sur les preuves en rééducation. KINE REV (2009)94:55-61. Doi : 10.1016/S1779-0123(09)70037-3
- PubMed help – Manuel d'aide NCBI (anglais). Disponible sur: <http://www.ncbi.nlm.nih.gov/books/NBK3830/>

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