



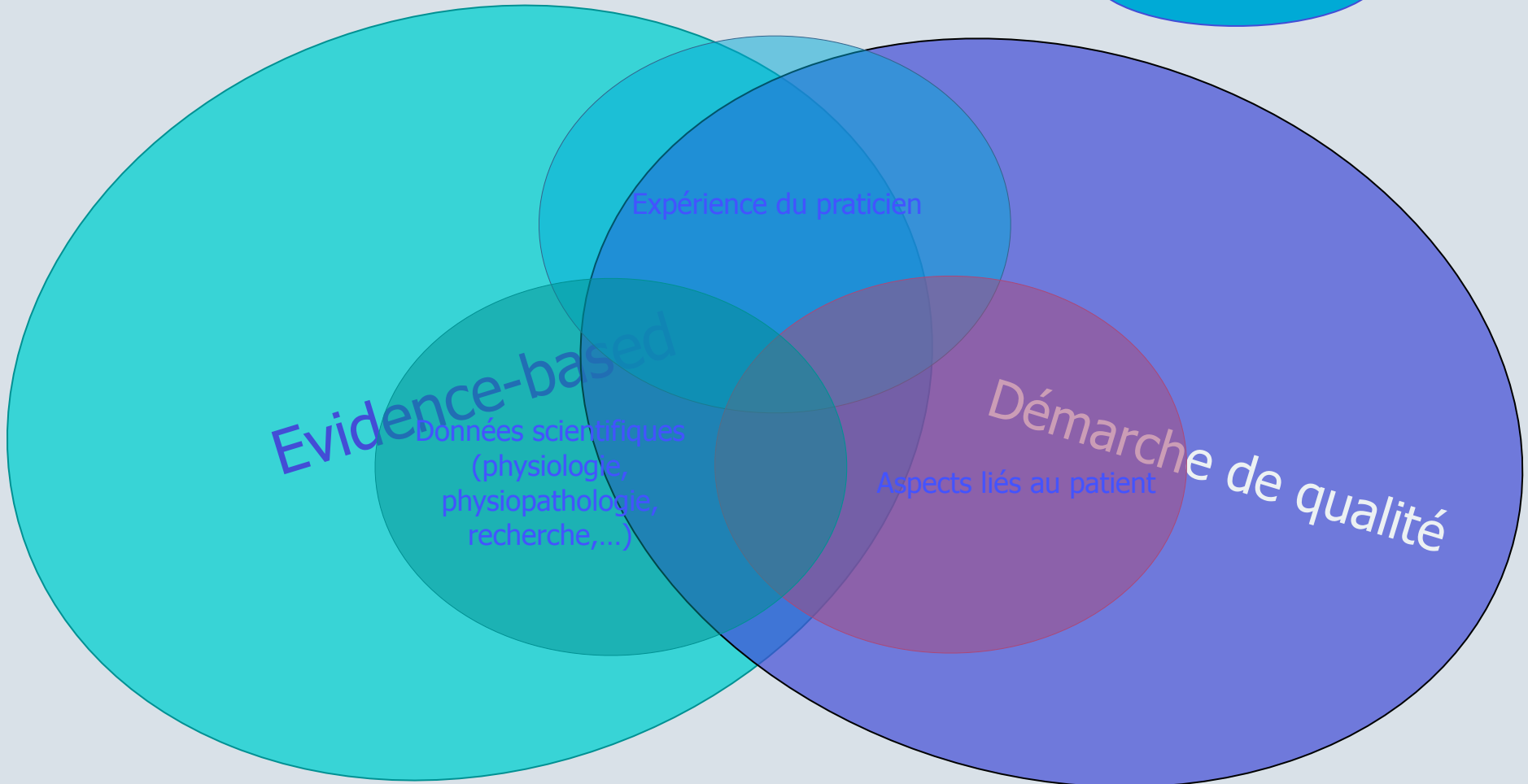
# La recherche bibliographique en pratique

Gregory Reychler  
Cliniques universitaires Saint-Luc  
Bruxelles - Belgique



# Pourquoi?

Kinésithérapie



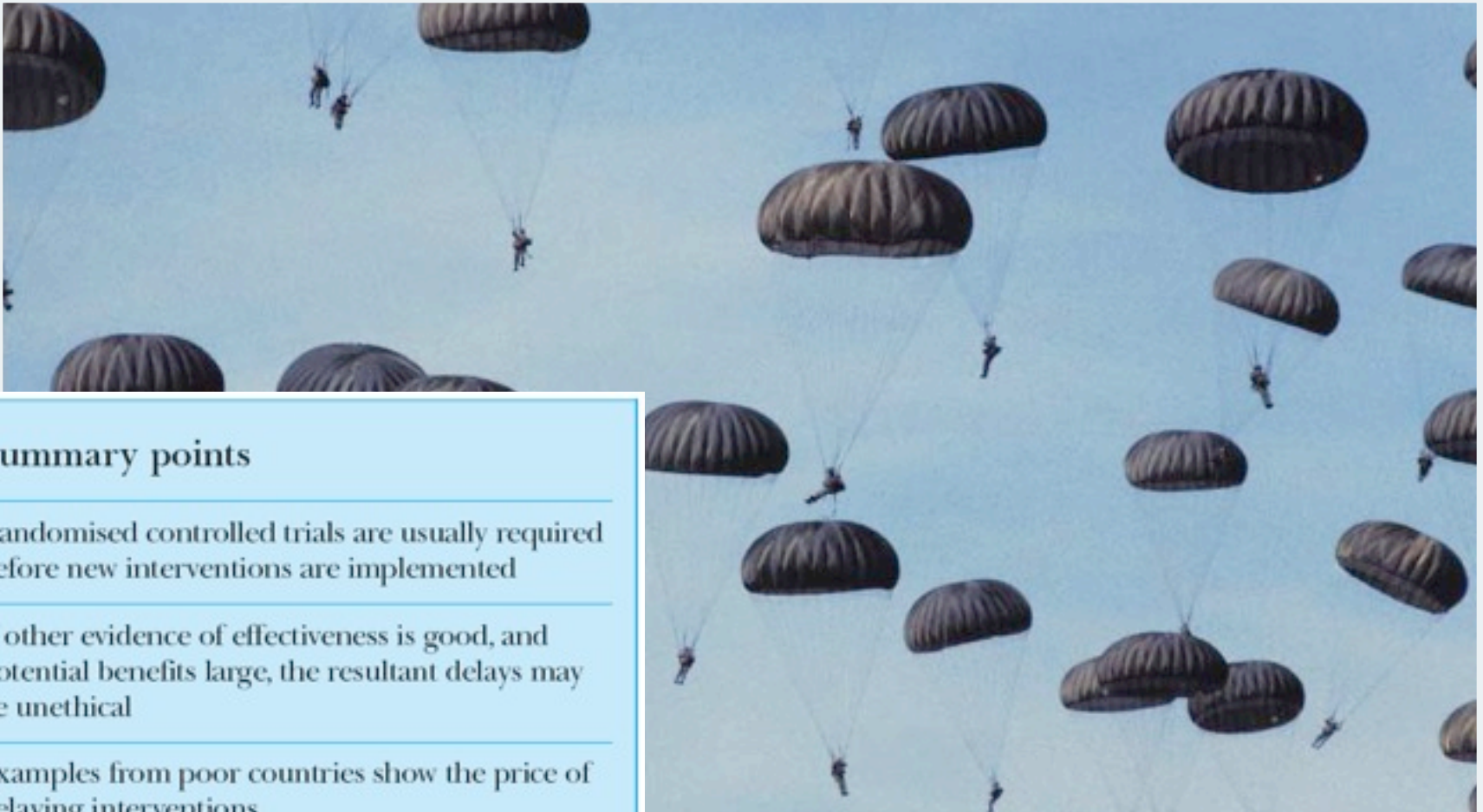
# Evidence-based medicine

« La médecine factuelle consiste en l'utilisation raisonnée, explicite et judicieuse des **preuves scientifiques les plus robustes** dans la décision des soins à donner à un patient particulier. La pratique de la médecine factuelle suppose **l'intégration de l'expertise clinique individuelle et des meilleures preuves externes issues de la recherche**

» [Sackett, BMJ 1996]

Expérience clinique = répéter les mêmes erreurs, avec une confiance croissante, pendant un nombre impressionnant d'année

# Evidence = RCT?



## Summary points

Randomised controlled trials are usually required before new interventions are implemented

If other evidence of effectiveness is good, and potential benefits large, the resultant delays may be unethical

Examples from poor countries show the price of delaying interventions

# Pourquoi?

- Recherche
- Etat des connaissances
- Application directe à la pratique

**Q** uelle est la problématique rencontrée

**U** tiliser la situation de départ pour formuler la question clinique

**A** ppliquer la recherche à la source de données

**L** imiter la portée des résultats (validité, reproductibilité, applicabilité,...)

**I** ntégrer les niveaux de preuve (Evidence) à l'expertise clinique et aux préférences du patient

**T** irer les conclusions et déterminer le plan de traitement

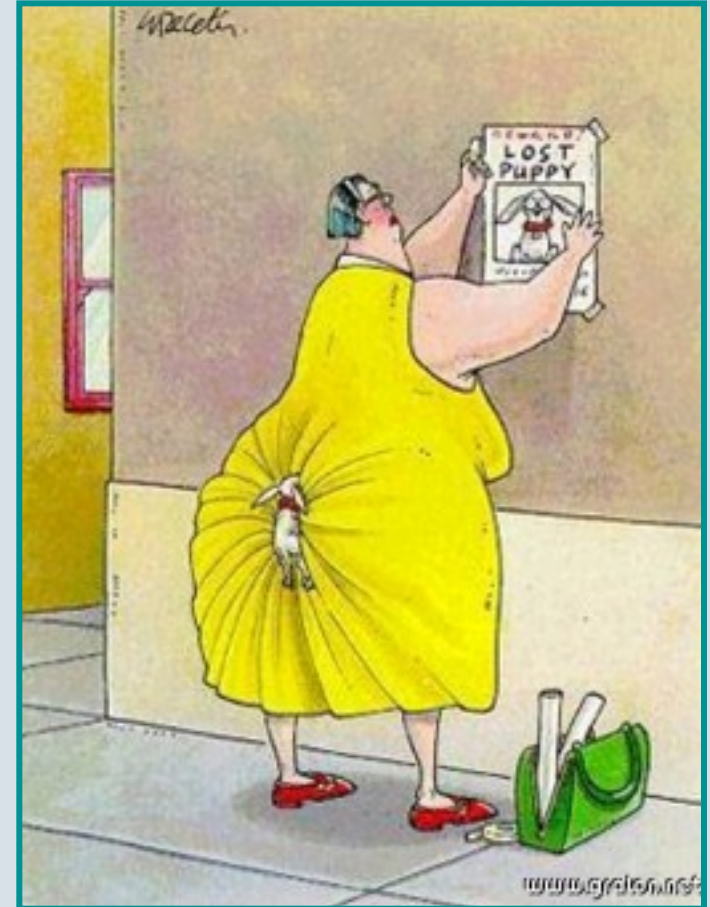
**E** valuer le résultat de l'action menée

# Quoi, où et comment?

**Quoi** = question posée

**Où** = choix de la base de données

**Comment** = détermination de la stratégie de recherche



# Quoi?

- Question précise
- Mots-clés
- Type d'articles



**Quantité de publications**

**Meta-Analyse**

**Systematic Review**

**Essai randomisé contrôlé**

**Etude de cohorte**

**Etude contrôlée**

**Case-report**

**Etude sur animaux ou Etude in vitro**

**Pertinence**



# Où?



The screenshot shows the PubMed website. At the top, there is a search bar with the text "SEARCH PubMed" and a "Search" button. Below the search bar, there is a large banner with the PubMed logo and a description: "PubMed comprises more than 19 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." Below the banner, there are three columns of links: "Using PubMed", "PubMed Tools", and "More Resources". At the bottom, there is a navigation menu with categories like "GETTING STARTED", "ALL SERVICES", "POPULAR", "FEATURED", and "MORE INFORMATION".

The screenshot shows the SUMSearch website. At the top, there is a logo for "SUMSearch" and "UT HEALTH SCIENCE CENTER". Below the logo, there is a description: "SUMSearch selects the best resources for your question, formats your question for each resource, and makes additional searches based on results." There is a search input field and a "Check my strategy (recommended)" button. To the right, there is a section titled "Your search terms:" with a note: "Click a hypothesized search term below to use the MeSH browser to find its best synonym(s)". Below this, there is a list of search terms with "explain" links: Intervention, Diagnosis, Physical findings, Screening/prevention, Prognosis, Etiology/causation, Adverse treatment affects, and No focus. There are also "Limits:" and "Settings:" sections with dropdown menus for Age, Subjects, Language, and other options.

<http://sumsearch.uthscsa.edu/>

# Comment?

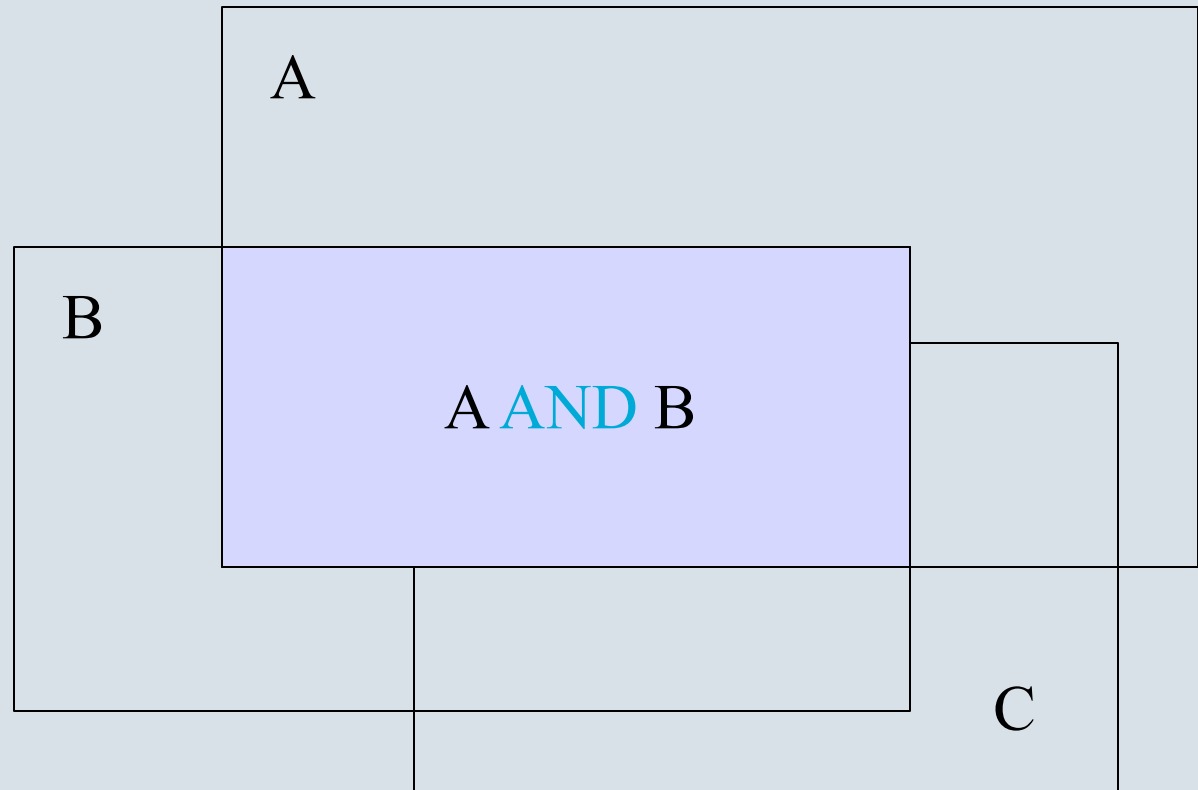
The screenshot shows the PEDro website. At the top, there is a logo for "PEDro" and "Physiotherapy Evidence Database". Below the logo, there is a navigation menu with links for "home", "SEARCH", "questions", "tutorial", "links", "supporters", and "otp". There is also a "search advanced search" button. Below the navigation menu, there is a search form with several fields: "Abstract & Title", "Therapy:", "Problem:", "Body Part:", "Subdiscipline:", "Method:", "Author/Association:", "Title Only:", "Source:", "Published since:", "New records added since:", "Score of at least:", "When Searching:", and "Return:". There are also "Start Search" and "Reset Form" buttons. At the bottom, there is a footer with a note: "The oldest record on the database was published in 1926. The database was last updated on 5 November 2007 (this includes records added or amended since 9 October 2007). The next update is planned for Monday 3 December 2007. The total number of records on the database is 11,167. If you know of a randomized controlled trial, systematic review or clinical practice guideline that is not indexed on PEDro, please click here. If you are the author of a randomized trial or systematic review in physiotherapy that is not indexed on PEDro we would appreciate a reprint. Please mail reprints to us at this address."

# Fonctionnement

- Méthode booléenne

- Opérateurs qui peuvent être associés

- AND
- OR
- NOT

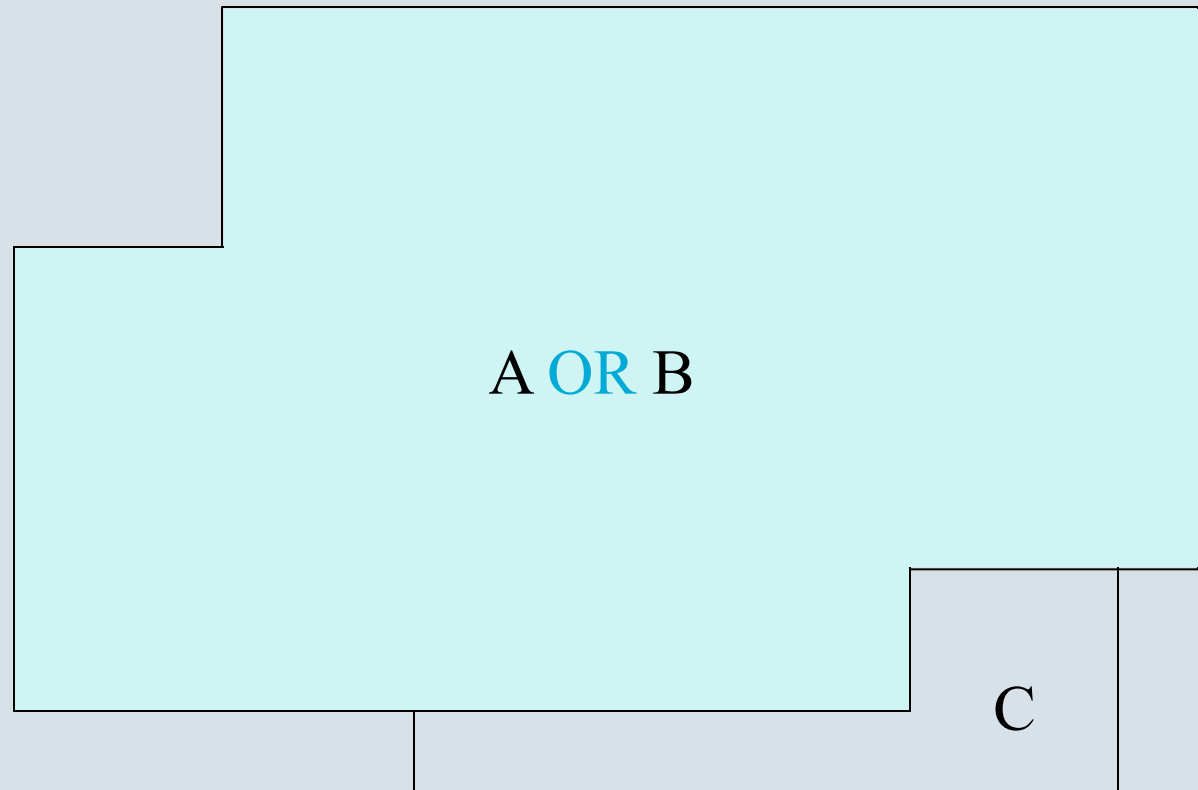


# Fonctionnement

- Méthode booléenne

- Opérateurs qui peuvent être associés

- AND
    - OR
    - NOT

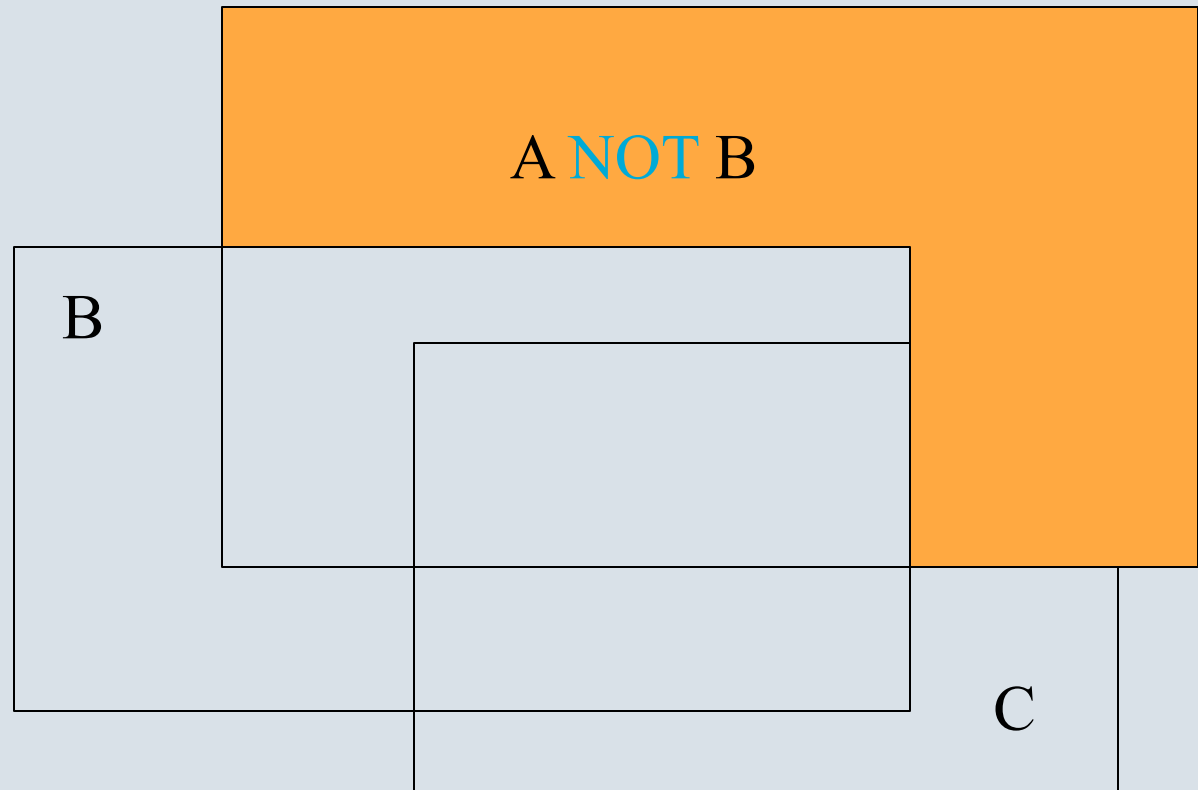


# Fonctionnement

- Méthode booléenne

- Opérateurs qui peuvent être associés

- AND
- OR
- NOT

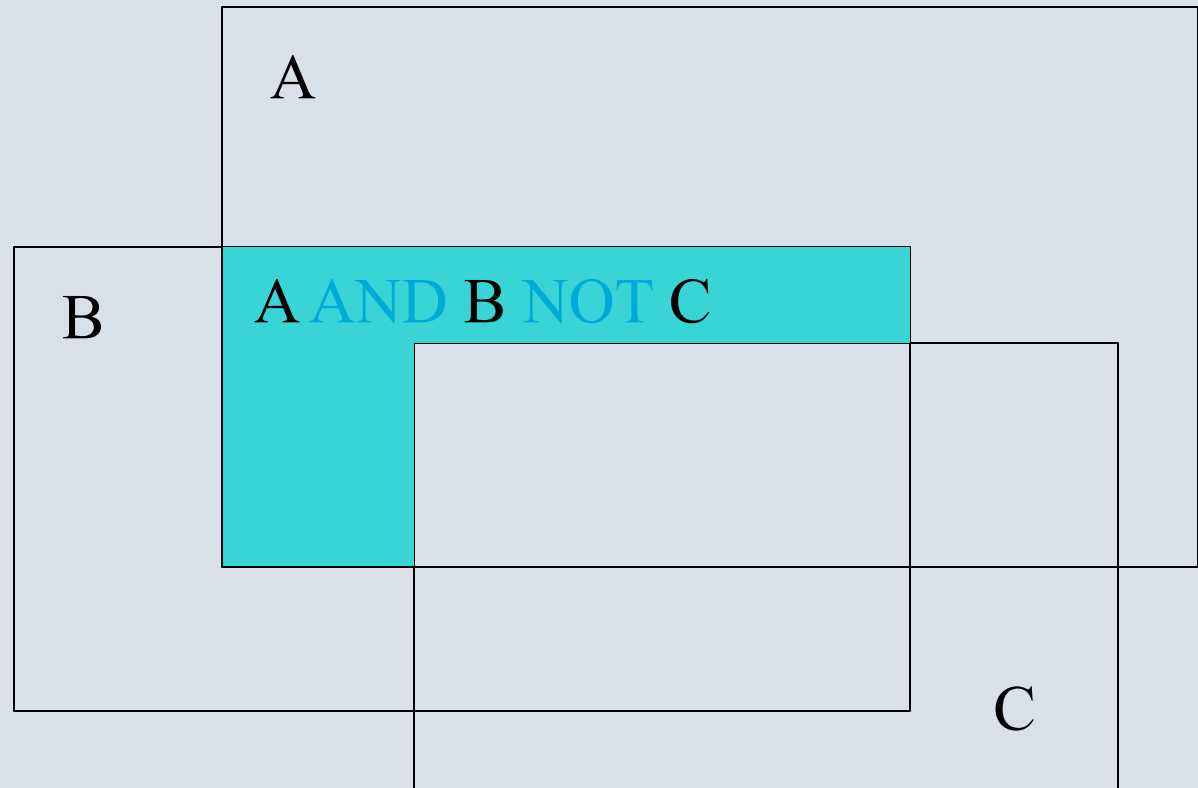


# Fonctionnement

- Méthode booléenne

- Opérateurs qui peuvent être associés

- AND
- OR
- NOT

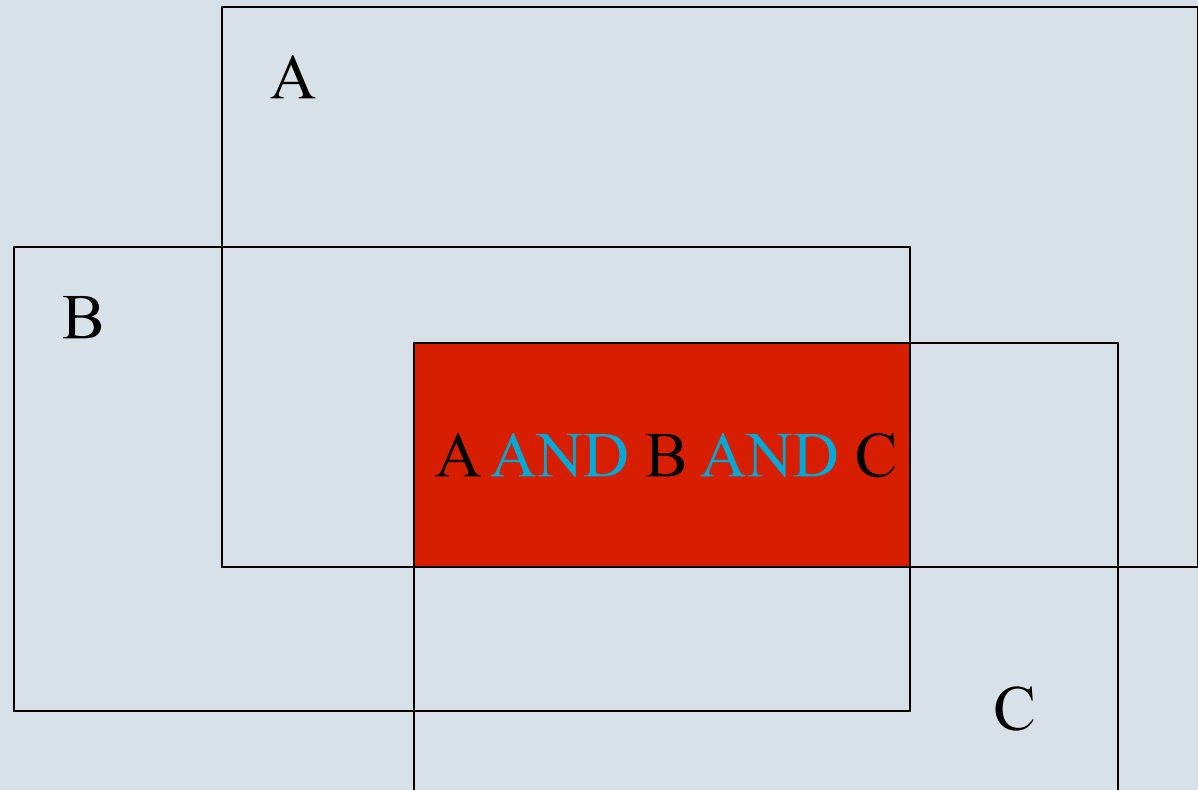


# Fonctionnement

- Méthode booléenne

- Opérateurs qui peuvent être associés

- AND
- OR
- NOT



Search: PubMed  Limits Advanced search Help



## PubMed

PubMed comprises more than 19 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.

### Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
- [New and Noteworthy](#) 

### PubMed Tools

- [Single Citation Matcher](#)
- [Batch Citation Matcher](#)
- [Clinical Queries](#)
- [Topic-Specific Queries](#)

### More Resources

- [MeSH Database](#)
- [Journals Database](#)
- [Clinical Trials](#)
- [E-Utilities](#)
- [LinkOut](#)

[www.pubmed.com](http://www.pubmed.com)



You are here: [NCBI](#) > [Literature](#) > [PubMed](#)

[Write to the Help Desk](#)

#### GETTING STARTED

- [NCBI Help Manual](#)
- [NCBI Handbook](#)
- [Training & Tutorials](#)

#### RESOURCES

- [Literature](#)
- [DNA & RNA](#)
- [Proteins](#)
- [Sequence Analysis](#)
- [Genes & Expression](#)
- [Genomes & Maps](#)
- [Domains & Structures](#)
- [Genetics & Medicine](#)
- [Taxonomy](#)

#### POPULAR

- [PubMed](#)
- [Nucleotide](#)
- [BLAST](#)
- [PubMed Central](#)
- [Gene](#)
- [Bookshelf](#)
- [Protein](#)
- [OMM](#)
- [Genome](#)

#### FEATURED

- [GenBank](#)
- [Reference Sequences](#)
- [Map Viewer](#)
- [Genome Projects](#)
- [Human Genome](#)
- [Mouse Genome](#)
- [Influenza Virus](#)
- [Primer-BLAST](#)
- [Sequence Read Archive](#)

#### NCBI INFORMATION

- [About NCBI](#)
- [Research at NCBI](#)
- [NCBI Newsletter](#)
- [NCBI FTP Site](#)



Search: PubMed

Limits Advanced search Help

Search Clear

- Chest physiotherapy
- chest physiotherapy
- chest physiotherapy pneumonia
- chest physiotherapy children
- chest physiotherapy bronchiolitis
- chest physiotherapy cystic fibrosis
- chest physiotherapy icu
- chest physiotherapy techniques
- chest physiotherapy abdominal
- chest physiotherapy and pneumonia
- chest physiotherapy intensive
- Turn off



in citations for biomedical literature from MEDLINE, life science journals, and links to full-text content from PubMed Central and publisher web sites.

### Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#)

### PubMed Tools

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

### More Resources

[MeSH Database](#)

[Journals Database](#)

[Clinical Trials](#)

[E-Utilities](#)

[LinkOut](#)



You are here: [NCBI](#) > [Literature](#) > [PubMed](#)

[Write to the Help Desk](#)

#### GETTING STARTED

[NCBI Help Manual](#)

[NCBI Handbook](#)

[Training & Tutorials](#)

#### RESOURCES

[Literature](#)

[DNA & RNA](#)

[Proteins](#)

[Sequence Analysis](#)

[Genes & Expression](#)

[Genomes & Maps](#)

[Domains & Structures](#)

[Genetics & Medicine](#)

[Taxonomy](#)

#### POPULAR

[Pubmed](#)

[Nucleotide](#)

[BLAST](#)

[PubMed Central](#)

[Gene](#)

[Bookshelf](#)

[Protein](#)

[OMM](#)

[Genome](#)

#### FEATURED

[GenBank](#)

[Reference Sequences](#)

[Map Viewer](#)

[Genome Projects](#)

[Human Genome](#)

[Mouse Genome](#)

[Influenza Virus](#)

[Primer-BLAST](#)

[Sequence Read Archive](#)

#### NCBI INFORMATION

[About NCBI](#)

[Research at NCBI](#)

[NCBI Newsletter](#)

[NCBI FTP Site](#)

Search: PubMed  
Chest physiotherapy  
[Search] [Clear]

Display Settings

Summary, 20 per page, Sorted by Recently Added

Format	Items per page	Sort by
<input checked="" type="radio"/> Summary	<input type="radio"/> 5	<input checked="" type="radio"/> Recently Added
<input type="radio"/> Summary (text)	<input type="radio"/> 10	<input type="radio"/> Pub Date
<input type="radio"/> Abstract	<input checked="" type="radio"/> 20	<input type="radio"/> First Author
<input type="radio"/> Abstract (text)	<input type="radio"/> 50	<input type="radio"/> Last Author
<input type="radio"/> MEDLINE	<input type="radio"/> 100	<input type="radio"/> Journal
<input type="radio"/> XML	<input type="radio"/> 200	<input type="radio"/> Title
<input type="radio"/> PMID List		

[Apply]

for adults with pneumonia.

children with cystic fibrosis.

Send to

Choose Destination

File  Clipboard

Collections  E-mail

Order

Filter your results:

(595)

[Manage Filters]

Also try:

- chest physiotherapy pneumonia
- chest physiotherapy children
- chest physiotherapy cardiac
- chest physiotherapy bronchiolitis
- chest physiotherapy abdominal

- Moeller A, Stämpfli SF, Rueckert B, Rechsteiner T, Hamacher J, Wildhaber JH. *Pediatr Pulmonol.* 2010 Jun;45(6):541-51. PMID: 20503278 [PubMed - in process] [Related citations](#)
- [Motor performance is better than normal in preschool children with cystic fibrosis.](#)
- Gruber W, Orenstein DM, Paul K, Hüls G, Braumann KM. *Pediatr Pulmonol.* 2010 Jun;45(6):527-35. PMID: 20503276 [PubMed - in process] [Related citations](#)
- [A randomised controlled equivalence trial to determine the effectiveness and cost-utility of manual chest physiotherapy techniques in the management of exacerbations of chronic obstructive pulmonary disease \(MATREX\).](#)  
Cross J, Elender F, Barton G, Clark A, Shepstone L, Blyth A, Bachmann M, Harvey I; MATREX Research Group. *Health Technol Assess.* 2010 May;14(23):1-147, iii-iv. PMID: 20487638 [PubMed - in process] [Free Article](#) [Related citations](#)
- [Early complications after pneumonectomy: retrospective study about 168 patients.](#)  
Alloubi I, Jougon J, Delcambre F, Baste JM, Velly JF. *Interact Cardiovasc Thorac Surg.* 2010 May 14. [Epub ahead of print] PMID: 20472651 [PubMed - as supplied by publisher] [Free Article](#) [Related citations](#)
- [In vivo laboratory validation of the physiometer: a measurement system for long-term recording of posture and movements in the workplace.](#)  
Straker L, Campbell A, Coleman J, Ciccarelli M, Dankaerts W. *Ergonomics.* 2010 May;53(5):672-84. PMID: 20432087 [PubMed - in process] [Related citations](#)

Titles with your search terms

- [Chest physiotherapy for reducing respiratory morbidity in](#) [Cochrane Database Syst Rev. 2008]
  - [Does non-invasive ventilation associated with chest pt](#) [Interact Cardiovasc Thorac Surg. 2008]
  - [Chest physiotherapy for acute bronchiolitis in paediatric](#) [Cochrane Database Syst Rev. 2007]
- [See more.](#)

161 free full-text articles in PubMed Central

- [A study protocol of a randomised controlled trial to investigate if a community](#) [BMC Pediatr. 2010]
  - [Unusual inferior dislocation of shoulder: reduction by two-step](#) [J Orthop Surg Res. 2009]
  - [Effects of chest physiotherapy on the respiratory function of](#) [Clinics (Sao Paulo). 2009]
- [See all \(161\)..](#)

Find related data

Table of Contents

My NCBI Home

My Saved Data

Search Filters

Preferences

About My NCBI

My NCBI Home > Filters > PubMed

## PubMed Filters

My Filters **Frequently Requested Filters** Browse Filters Search for Filters Custom Filters

### Frequently Requested PubMed Filters

- articles that review the literature on a subject
- Clinical Trial
- English
- English & Humans
- Free Full Text: links to Web accessible full text articles (all available free of charge)
- Full Text: links to Web accessible full text articles (some may require subscription)
- Humans
- Items with Abstracts
- Published in the last 5 years



Search: PubMed

[Limits](#) [Advanced search](#) [Help](#)

Chest physiotherapy

Search

Clear

## Search Details

### Query Translation:

```
("thorax"[MeSH Terms] OR "thorax"[All Fields] OR "chest"[All Fields]) AND ("physical therapy modalities"[MeSH Terms] OR ("physical"[All Fields] AND "therapy"[All Fields] AND "modalities"[All Fields]) OR "physical therapy modalities"[All Fields] OR "physiotherapy"[All Fields])
```

Search

URL

### Result:

2094

### Translations:

Chest	"thorax"[MeSH Terms] OR "thorax"[All Fields] OR "chest"[All Fields]
physiotherapy	"physical therapy modalities"[MeSH Terms] OR ("physical"[All Fields] AND "therapy"[All Fields] AND "modalities"[All Fields]) OR "physical therapy modalities"[All Fields] OR "physiotherapy"[All Fields]

### Database:

PubMed

### User query:

Chest physiotherapy

You are here: [NCBI](#) > [Literature](#) > [PubMed](#)[Write to the Help Desk](#)

#### GETTING STARTED

[NCBI Help Manual](#)  
[NCBI Handbook](#)  
[Training & Tutorials](#)

#### RESOURCES

[Literature](#)  
[DNA & RNA](#)  
[Proteins](#)  
[Sequence Analysis](#)  
[Genes & Expression](#)

#### POPULAR

[PubMed](#)  
[Nucleotide](#)  
[BLAST](#)  
[PubMed Central](#)  
[Gene](#)

#### FEATURED

[GenBank](#)  
[Reference Sequences](#)  
[Map Viewer](#)  
[Genome Projects](#)  
[Human Genome](#)

#### NCBI INFORMATION

[About NCBI](#)  
[Research at NCBI](#)  
[NCBI Newsletter](#)  
[NCBI FTP Site](#)

[Display Settings](#): Summary, 20 per page, Sorted by Recently Added

[Send to](#)

Filter your results:

**Results: 1 to 20 of 2094**

&lt;&lt; First &lt; Prev Page 1 Next &gt; Last &gt;&gt;

 [Insufficient evidence to recommend routine adjunctive chest physiotherapy for adults with pneumonia.](#)

1. Agrafiotis M.

Evid Based Med. 2010 Jun;15(3):76-7. No abstract available.

PMID: 20522681 [PubMed - in process]

[Related citations](#)
 [Effects of a short-term rehabilitation program on airway inflammation in children with cystic fibrosis.](#)

2. Moeller A, Stämpfli SF, Rueckert B, Rechsteiner T, Hamacher J, Wildhaber JH.

Pediatr Pulmonol. 2010 Jun;45(6):541-51.

PMID: 20503278 [PubMed - in process]

[Related citations](#)
 [Motor performance is better than normal in preschool children with cystic fibrosis.](#)

3. Gruber W, Orenstein DM, Paul K, Hüls G, Braumann KM.

Pediatr Pulmonol. 2010 Jun;45(6):527-35.

PMID: 20503276 [PubMed - in process]

[Related citations](#)
 [A randomised controlled equivalence trial to determine the effectiveness and cost-utility of manual chest physiotherapy techniques in the management of exacerbations of chronic obstructive pulmonary disease \(MATREX\).](#)

4. Cross J, Elender F, Barton G, Clark A, Shepstone L, Blyth A, Bachmann M, Harvey I; MATREX Research Group.

Health Technol Assess. 2010 May;14(23):1-147. iii-iv.

PMID: 20487638 [PubMed - in process] [Free Article](#)[Related citations](#)
 [Early complications after pneumonectomy: retrospective study about 168 patients.](#)

5. Alloubi I, Jougon J, Delcambre F, Baste JM, Velly JF.

Interact Cardiovasc Thorac Surg. 2010 May 14. [Epub ahead of print]

PMID: 20472651 [PubMed - as supplied by publisher] [Free Article](#)[Related citations](#)
 [In vivo laboratory validation of the physiometer: a measurement system for long-term recording of posture and movements in the workplace.](#)

6. Straker L, Campbell A, Coleman J, Ciccarelli M, Dankaerts W.

Ergonomics. 2010 May;53(5):672-84.

PMID: 20432087 [PubMed - in process]

[Related citations](#)[Manage Filters](#)
**Also try:**

chest physiotherapy pneumonia

chest physiotherapy children

chest physiotherapy cardiac

chest physiotherapy bronchiolitis

chest physiotherapy abdominal

**Titles with your search terms**
[Chest physiotherapy for reducing respiratory morbidity in](#) [Cochrane Database Syst Rev. 2008]

[Does non-invasive ventilation associated with chest pt](#) [Interact Cardiovasc Thorac Surg. 2008]

[Chest physiotherapy for acute bronchiolitis in paediatric](#) [Cochrane Database Syst Rev. 2007]
[See more.](#)
**161 free full-text articles in PubMed Central**
[A study protocol of a randomised controlled trial to investigate if a community](#) [BMC Pediatr. 2010]

[Unusual inferior dislocation of shoulder: reduction by two-step](#) [J Orthop Surg Res. 2009]

[Effects of chest physiotherapy on the respiratory function of](#) [Clinics (Sao Paulo). 2009]
[See all \(161\)...](#)[Find related data](#)

Search: PubMed

[Advanced search](#) [Help](#)

Chest physiotherapy

Search

Clear

## Limits

### Dates

Published in the Last 

### Type of Article

- Clinical Trial
- Editorial
- Letter
- Meta-Analysis
- Practice Guideline

### Species

- Humans
- Animals

### Subsets

#### Journal Groups

- Core clinical journals
- Dental journals
- Nursing journals

### Text Options

- Links to full text
- Links to free full text
- Abstracts

### Languages

- English
- French
- German
- Italian
- Japanese

### Gender

- Male
- Female

### Ages

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months

### Search Field Tags

Field: 

Reset

Search

[Display Settings](#):  Summary, 20 per page, Sorted by Recently Added

[Send to](#) 

Filter your results:

All (2094)

[Review \(342\)](#)
[Free Full Text \(595\)](#)
[Manage Filters](#)
**Also try:** 





**Titles with your search terms** 

Chest physiotherapy for reducing respiratory morbidity in [Cochrane Database Syst Rev. 2008]

Does non-invasive ventilation associated with chest pt [Interact Cardiovasc Thorac Surg. 2008]

Chest physiotherapy for acute bronchiolitis in paediatric [Cochrane Database Syst Rev. 2007]

[See more.](#)
**161 free full-text articles in PubMed Central** 

A study protocol of a randomised controlled trial to investigate if a community [BMC Pediatr. 2010]

Unusual inferior dislocation of shoulder: reduction by two-step [J Orthop Surg Res. 2009]

Effects of chest physiotherapy on the respiratory function of [Clinics (Sao Paulo). 2009]

[See all \(161\)...](#)
[Find related data](#) 

## Results: 1 to 20 of 2094

&lt;&lt; First &lt; Prev Page 1 Next &gt; Last &gt;&gt;

 [Insufficient evidence to recommend routine adjunctive chest physiotherapy for adults with pneumonia.](#)

1. Agrafiotis M.

Evid Based Med. 2010 Jun;15(3):76-7. No abstract available.

PMID: 20522681 [PubMed - in process]

[Related citations](#)
 [Effects of a short-term rehabilitation program on airway inflammation in children with cystic fibrosis.](#)

2. Moeller A, Stämpfli SF, Rueckert B, Rechsteiner T, Hamacher J, Wildhaber JH.

Pediatr Pulmonol. 2010 Jun;45(6):541-51.

PMID: 20503278 [PubMed - in process]

[Related citations](#)
 [Motor performance is better than normal in preschool children with cystic fibrosis.](#)

3. Gruber W, Orenstein DM, Paul K, Hüls G, Braumann KM.

Pediatr Pulmonol. 2010 Jun;45(6):527-35.

PMID: 20503276 [PubMed - in process]

[Related citations](#)
 [A randomised controlled equivalence trial to determine the effectiveness and cost-utility of manual chest physiotherapy techniques in the management of exacerbations of chronic obstructive pulmonary disease \(MATREX\).](#)

4. Cross J, Elender F, Barton G, Clark A, Shepstone L, Blyth A, Bachmann M, Harvey I; MATREX Research Group.

Health Technol Assess. 2010 May;14(23):1-147, iii-iv.

PMID: 20487638 [PubMed - in process] [Free Article](#)
[Related citations](#)
 [Early complications after pneumonectomy: retrospective study about 168 patients.](#)

5. Alloubi I, Jougon J, Delcambre F, Baste JM, Velly JF.

Interact Cardiovasc Thorac Surg. 2010 May 14. [Epub ahead of print]

PMID: 20472651 [PubMed - as supplied by publisher] [Free Article](#)
[Related citations](#)
 [In vivo laboratory validation of the physiometer: a measurement system for long-term recording of posture and movements in the workplace.](#)

6. Straker L, Campbell A, Coleman J, Ciccarelli M, Dankaerts W.

Ergonomics. 2010 May;53(5):672-84.

PMID: 20432087 [PubMed - in process]

[Related citations](#)

Search: PubMed [Limits](#) [Advanced search](#) [Help](#)

[Display Settings](#) Abstract

[Send to](#)



*Pediatr Pulmonol.* 2010 Jun;45(6):541-51.

**Effects of a short-term rehabilitation program on airway inflammation in children with cystic fibrosis.**

Moeller A, Stämpfli SF, Rueckert B, Rechsteiner T, Hamacher J, Wildhaber JH.

Swiss Paediatric Respiratory Research Group, Division of Respiratory Medicine, University Children's Hospital Zurich, Zurich, Switzerland. alexander.moeller@kispi.uzh.ch

**Abstract**

BACKGROUND: Respiratory therapy in cystic fibrosis (CF) consists of airway clearance, infection control, and reduction of airway inflammation. It is well recognized that physical activity as well as daily chest physiotherapy, enhance airway clearance. We investigated the effects of pulmonary rehabilitation, including physical activity and chest physiotherapy, on airway inflammation in children with CF. METHODS: Eighteen children with stable CF (six females), aged 8.2-16.2 years, participating in a 3-week multidisciplinary inpatient rehabilitation program were recruited. Assessment at the beginning and the end of the program included clinical score, pulmonary function test, exhaled breath condensate (EBC) and sputum analysis. Sputum supernatant and EBC were analyzed for interleukin (IL)-1b, 6, 8, 10, 12, tumor necrosis factor-alpha (TNF-alpha) and LTB4. RESULTS: Median (IQR) symptom scores decreased from 19 [23] to 16 [21], P = 0.005. Vital capacity and FVC increased significantly (P < 0.05). However no difference was found for the total sputum cells and sputum as well as EBC cytokines between the two visits. Significant correlations were found for sputum IL-1 (+), IL-6 (-), and IL-8 (+) to total sputum cell count and neutrophils and for IL-8 to TNF-alpha. CONCLUSIONS: We have shown that a short-term inpatient rehabilitation for children with stable CF with intensive physical activity mainly improve subjective clinical symptoms and measures of lung function such as VC and FVC but does not influence airflow obstruction and airway inflammation as assessed by sputum and EBC analysis.

- Related citations**
- Induced sputum matrix metalloproteinase-9 correlates with lung fun [Pediatr Pulmonol. 2005]
  - Cytokines in exhaled breath condensate of children with [Ann Allergy Asthma Immunol. 2006]
  - Review** Leukotriene receptor antagonists in children with cystic fibrosi [Paediatr Drugs. 2005]
  - Cytokine levels in sputum of cystic fibrosis patients before and aft [Pediatr Pulmonol. 2005]
  - Review** Oscillating devices for airway clearance in people w [Cochrane Database Syst Rev. 2009]

[See reviews...](#)

[See all](#)

PMID: 20503278 [PubMed - in process]

[+ Publication Types](#)

[+ LinkOut - more resources](#)

**Recent activity**

[Turn Off](#) [Clear](#)

Effects of a short-term rehabilitation program on airway inflammation in childre... PubMed

Chest physiotherapy (2094) PubMed

[See more](#)



You are here: [NCBI](#) > [Literature](#) > [PubMed](#)

[Write to the Help Desk](#)

<b>GETTING STARTED</b>	<b>RESOURCES</b>	<b>POPULAR</b>	<b>FEATURED</b>	<b>NCBI INFORMATION</b>
<a href="#">NCBI Help Manual</a>	<a href="#">Literature</a>	<a href="#">PubMed</a>	<a href="#">GenBank</a>	<a href="#">About NCBI</a>
<a href="#">NCBI Handbook</a>	<a href="#">DNA &amp; RNA</a>	<a href="#">Nucleotide</a>	<a href="#">Reference Sequences</a>	<a href="#">Research at NCBI</a>
<a href="#">Training &amp; Tutorials</a>	<a href="#">Proteins</a>	<a href="#">BLAST</a>	<a href="#">Map Viewer</a>	<a href="#">NCBI Newsletter</a>
	<a href="#">Sequence Analysis</a>	<a href="#">PubMed Central</a>	<a href="#">Genome Projects</a>	<a href="#">NCBI FTP Site</a>
	<a href="#">Genes &amp; Expression</a>	<a href="#">Gene</a>	<a href="#">Human Genome</a>	
	<a href="#">Genomes &amp; Maps</a>	<a href="#">Bookshelf</a>	<a href="#">Mouse Genome</a>	
	<a href="#">Domains &amp; Structures</a>	<a href="#">Protein</a>	<a href="#">Influenza Virus</a>	



Search: PubMed

Limits Advanced search Help

Search

Clear

Display Settings: Abstract

Send to:

Physiother Theory Pract. 2010 Apr 22;26(3):143-9.

→ **Acapella vs. PEP mask therapy:**

West K, Wallen M, Follett J.

Physiotherapy Department, The Children's Hospital at Westmead, Westmead, New South Wales, Australia. kerryw@chw.edu.au

**Abstract**

The Acapella is a positive pressure device designed to assist mucociliary clearance. This study investigated the effectiveness of the Acapella in comparison to PEP mask therapy. Twenty-three participants with cystic fibrosis (CF) with a median age of 12 years (range 7-18 years), who were admitted to hospital for a respiratory exacerbation were randomised to either the PEP mask or Acapella treatment group. Both groups completed two treatment sessions each day (10 sets of 10 breaths in sitting) over a 10-day period. Outcome measures were change in lung function (FEV1, FVC, FEF(25-75), and PEF) and exercise performance (modified 10-metre shuttle). In addition, total sputum production during treatment (wet weight) and patient satisfaction were assessed over the 10-day period. At the end of 10 days there were no statistically significant differences between the groups for any of the outcome measures. Participants were highly satisfied with both devices. The results suggest that there is no statistically significant difference between the Acapella device and the PEP mask for use in CF during an acute exacerbation. Larger studies are required to determine whether differences between PEP mask and Acapella noted in this trial are clinically worthwhile.

PMID: 20331370 [PubMed - in process]

LinkOut - more resources

Le plus complet possible  
Structuré (Intro, Méthode, Résultats, Conclusion)  
Pas lu dans l'ordre (conclusion, méthode, résultats)  
Décision de pousser la lecture plus loin



*It goes to the library  
- you go to the pub(TM)*

- [About](#)
- [Download](#)
- [Sample Results](#)
- [News \(30/05/08\)](#)
- [FAQ](#)
- [Contact](#)

## PubCrawler - an Update Alerting Service for PubMed and GenBank

### Overview for user 'Reychler' (log in as different user)

#### Results:

The latest results contain 17 new hits.  
They were generated on Wed Mar 11  
10:03:30 2009 (Eire).

[Show results!](#)[Start queries!](#)

#### Queries:

3 queries are defined. Last modified on  
Thu Mar 2 12:52:32 2006 (Eire).

[Change queries!](#)

#### Schedule:

Queries are carried out every day.

[Change schedule!](#)

#### Mail and results options:

Results are stored in Summary format.  
Results are sent to  
Gregory.reychler@clin.ucl.ac.be only when  
new hits were found.

[Change options!](#)

#### Parameters:

Database entries from the last no limit are  
searched. The 5000 most recent hits are  
retrieved, of which 100 entries are shown  
in full. Any excess number of hits can be  
retrieved through a link combining up to  
100 items. Previous hits will be listed for  
30 days.

[Change parameters!](#)

#### Cookies:

Cookies for easy access are not set.

[Set cookies!](#)

#### Password:

Click the button to change your  
password.

[Change password!](#)[Refresh!](#)[Log out!](#)

