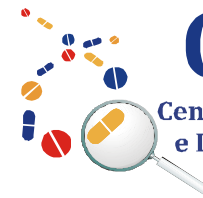




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# Estrategias de Búsqueda en Pubmed



**Mg. Roselly Robles Hilario**

Centro Nacional de Documentación e  
Información de Medicamentos

CENADIM

[rrobles@digemid.minsa.gob.pe](mailto:rrobles@digemid.minsa.gob.pe)

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# Búsqueda en MEDLINE a través de



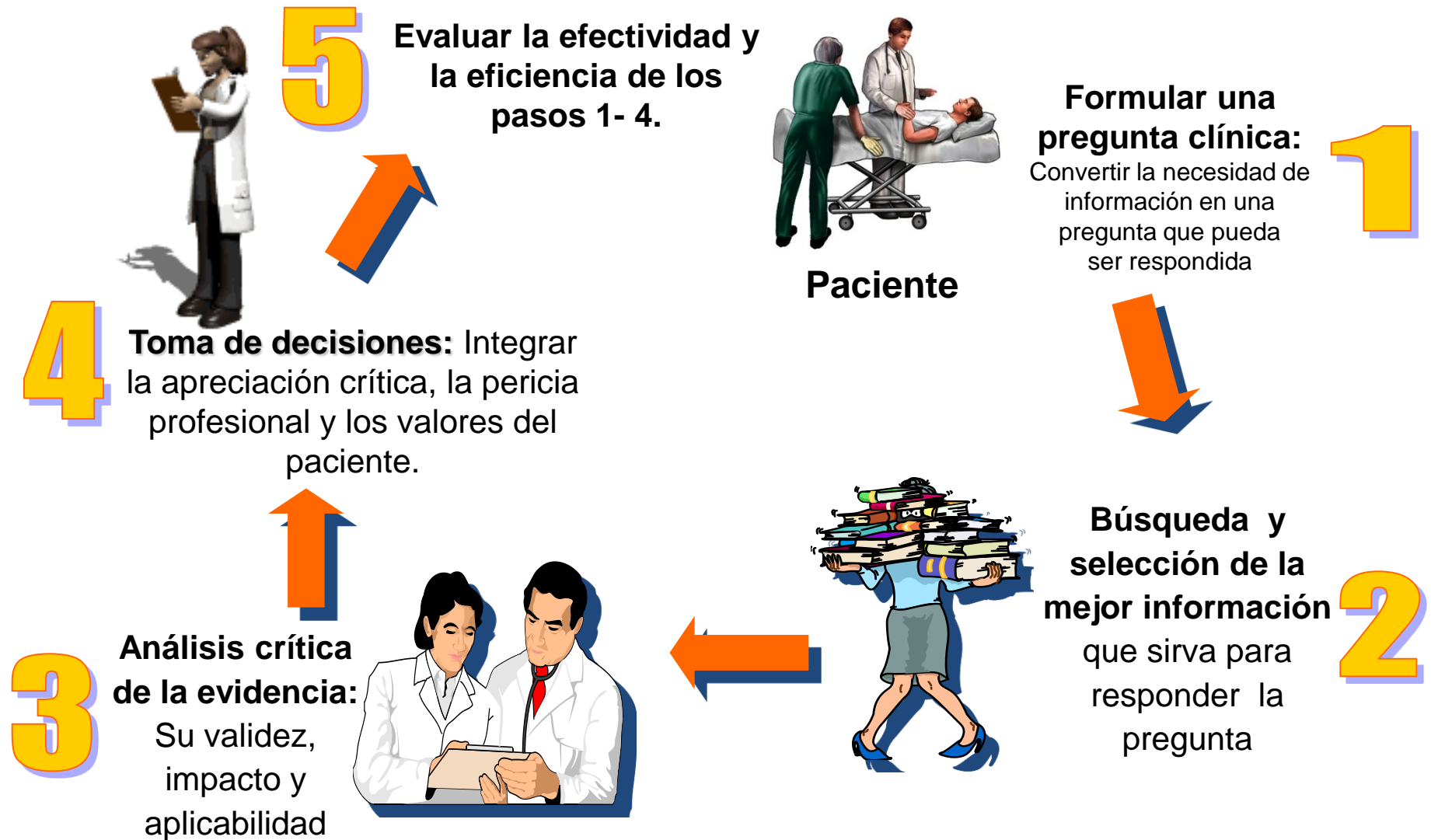
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# Escenario Clínico

Julio es un paciente adulto con sospecha de meningitis bacteriana, que recientemente a sido hospitalizado.

El médico responsable del paciente conoce que la meningitis bacteriana puede producir daños neurológicos y otras complicaciones, por lo cual, desea saber si la administración de dexametasona en asociación al tratamiento antibiótico puede ayudar a reducir el riesgo que presenta Julio.

# La MBE es un proceso que consta de 5 pasos



# Estrategia PICO

“Anatomía de una buena pregunta clínica”

- **P: Paciente, Población o problema de interés:**

Pregunte: ¿Cómo describiría a un grupo de pacientes similar al suyo?

Describa a su paciente lo suficiente como para permitir la comparación con los pacientes en los estudios a encontrar.

Describa las principales características del paciente (y su enfermedad si se indica), que podrían ser importantes para los riesgos de salud, el pronóstico o la elección de la terapia:

- Rango de edad
- Género
- Características de la enfermedad
- Factores de riesgo, etc

# Estrategia PICO

“Anatomía de una buena pregunta clínica”

- **I: Intervención a considerar:**

Pregunte: ¿Qué queremos evaluar?

La intervención que se desee evaluar pueden ser:

- Tratamiento (fármacos o el procedimiento)
- Prevención (por ejemplo, asesoramiento de estilo de vida)
- Pruebas de diagnóstico (por ejemplo, ¿Cuánto más probable es que su paciente ha tenido un infarto de miocardio, si la prueba es positiva?)
- Etiología / daño (por ejemplo, ¿En qué medida son fumadores corren el riesgo de cáncer de pulmón?)

# Estrategia PICO

“Anatomía de una buena pregunta clínica”

- **C: Comparación:**

Pregunte: ¿Qué otras opciones existen?

¿Cuál es la principal alternativa?

Compara un enfoque de tratamiento alternativo (por ejemplo: Placebo o tratamiento habitual) a lo que usted está interesado en evaluar.

Tu pregunta clínica no siempre tiene que tener una comparación específica.

# Estrategia PICO

“Anatomía de una buena pregunta clínica”

- **O: Outcome o resultado:**

Pregunte: ¿Qué está tratando de lograr, medir, mejorar o afectar?

Describe los resultados específicos de salud (*resultados clínicos relevantes*) que se esperan de la terapia de interés, por ejemplo:

- Supervivencia o muerte
- Remisión o cura
- Prevención de discapacidad
- Número de días de trabajo perdidos, etc.



# Formato PICO para el caso de Julio

	PICO	
	Español	Inglés
Paciente	<ul style="list-style-type: none"><li>• Paciente adulto</li><li>• meningitis bacteriana</li></ul>	<ul style="list-style-type: none"><li>• Adult</li><li>• bacterial meningitis</li></ul>
Intervención	<ul style="list-style-type: none"><li>• Dexametasona con antibióticos</li></ul>	<ul style="list-style-type: none"><li>• Dexamethasone</li><li>• antibiotic</li></ul>
Comparación	<ul style="list-style-type: none"><li>• _____</li></ul>	<ul style="list-style-type: none"><li>• _____</li></ul>
Outcomes o Resultados	<ul style="list-style-type: none"><li>• Reduce complicaciones neurológicas</li><li>• Reduce mortalidad</li></ul>	<ul style="list-style-type: none"><li>• reduce neurological complications</li><li>• Reduce mortality</li></ul>

# Pregunta Clínica Estructurada (PCE)

¿ En pacientes adultos con sospecha de meningitis bacteriana, la administración de dexametasona en asociación a un antibiótico reduce las complicaciones neurológicas y la mortalidad?

- P** —> Paciente adulto con sospecha de meningitis bacteriana
- I** —> Dexametasona con antibióticos
- C** —> \_\_\_\_\_
- O** —> Reduce complicaciones neurológicas, reduce mortalidad

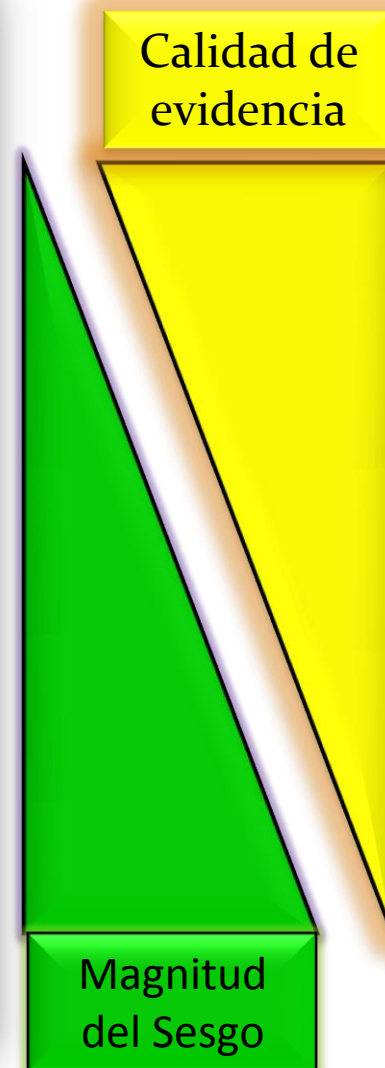
**¿Qué tipo de estudio  
necesito?**

# Tipos de Estudios – Jerarquía de la Evidencia



Dr. Alonso Soto

Estadística básica para lectura crítica



**¿Qué tipo de pregunta  
trata de responder?**

# ¿Qué tipo de pregunta trata de responder?

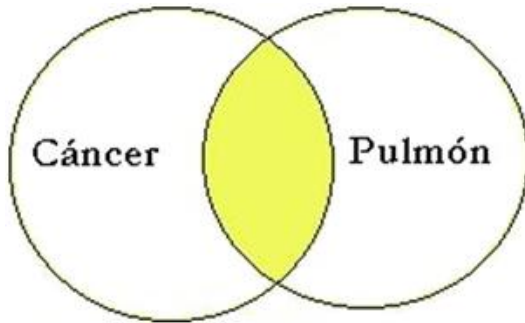
Tabla 1. Tipo de pregunta y estudio a localizar

Pregunta	Tipo de estudio
Diagnóstico	Estudio trasversal (con Gold standard) Revisión Sistemática, Guía de Práctica Clínica (GPC)
Etiología, Causalidad	Estudios de Cohortes Caso-Control Revisión Sistemática, GPC
Pronóstico	Estudios de Cohorte-Supervivencia (longitudinal) Revisión Sistemática, GPC
Intervención, tratamiento	Ensayo Clínico Aleatorizado y Controlado Revisión Sistemática, GPC
Frecuencia	Estudios de Cohortes Estudio trasversal Revisión Sistemática, GPC

# Construyendo la búsqueda en PubMed

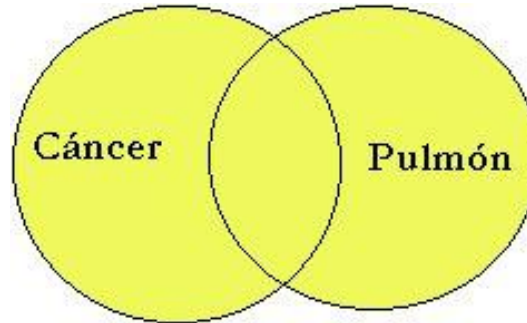
- Operadores booleanos, frases de búsqueda, truncamiento
- MESH (terminología)
- Clinical Queries
- Límites

# Operadores booleanos



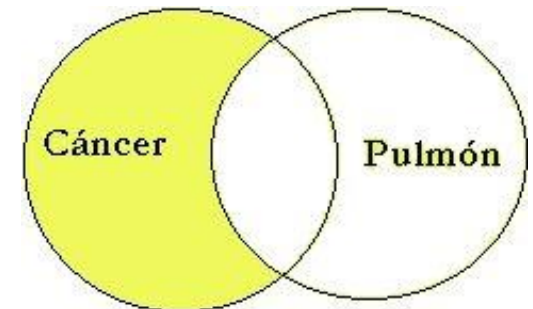
## Cáncer AND Pulmón

Operador de la intersección  
Sirve para restringir, busca documentos con ambos términos.



## Cáncer OR Pulmón

Operador de suma o unión  
Cuando unimos dos términos con este operador obtendremos uno u otro o ambos.



## Cáncer NOT Pulmón

Operador de la exclusión  
El término que sigue al operador no debe encontrarse en el documento.



# Uso de paréntesis ( )

- Para ordenar en forma lógica los términos es necesario usar **paréntesis ( )**, así éstos serán procesados como una unidad y luego incorporados en la estrategia global.

Ejemplo:

Hypertension AND (treatment OR drugs)

- Esto recuperará los registros que contienen **hypertension** así como uno o ambos términos: **treatment OR drugs**

# Estrategia de Búsqueda (1)

- P** → adult, bacterial meningitis
- I** → Dexamethasone, antibiotic
- C** → \_\_\_\_\_
- O** → neurological complications, mortality

**adult AND bacterial meningitis AND  
dexamethasone AND antibiotic AND  
(neurological complications OR mortality)**

- Colocar "**AND**" entre los descriptores.
- Colocar "**OR**" entre los sinónimos del mismo descriptor y envolver los términos con paréntesis.

adult **AND** bacterial meningitis **AND**  
dexamethasone **AND** antibiotic **AND** (neurological  
complications **OR** mortality)

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Waterhouse-friderichsen syndrome in an adult patient with meningococcal meningitis.

1. Sonavane A, Baradkar V, Salunkhe P, Kumar S.

Indian J Dermatol. 2011 May;56(3):326-8.

PMID: 21772601 [PubMed] Free PMC Article

Related citations

Timing of initiation of antiretroviral therapy in human immunodeficiency virus (HIV)-associated tuberculous meningitis.

2. Török ME, Yen NT, Chau TT, Mai NT, Phu NH, Mai PP, Dung NT, Chau NV, Bang ND, Tien NA, Minh NH, Hien NQ, Thai PV, Dong DT, Anh do TT, Thoa NT, Hai NN, Lan NN, Lan NT, Quy HT, Dung NH, Hien TT, Chinh NT, Simmons CP, de Jong M, Wolbers M, Farrar JJ.

Clin Infect Dis. 2011 Jun;52(11):1374-83.

PMID: 21596680 [PubMed - indexed for MEDLINE]

Related citations

Cortisol kinetics in cerebrospinal fluid during bacterial meningitis.

3. Beran O, Dzapova O, Holub M.

J Clin Neurosci. 2011 Jul;18(7):1001-2. Epub 2011 May 11.

PMID: 21565504 [PubMed - indexed for MEDLINE]

Related citations

Adjunctive steroid treatment in acute bacterial meningitis.

4. Spapen H, Van Berlaer G, Moens M, Hubloue I.

Acta Clin Belg. 2011 Jan-Feb;66(1):42-5.

PMID: 21485762 [PubMed - indexed for MEDLINE]

Related citations

[A case of Staphylococcus aureus meningitis-associated quadriparesis with its successful treatment with adrenocorticosteroid].

5. Washida K, Yasui N, Kasada D, Oguchi O, Kato T.

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Waterhouse-friderichsen syndrome in an adult patient with meningococ [Indian J Dermatol. 2011]

Adjunctive dexamethasone in bacterial meningitis: a meta-analysis [Lancet Neurol. 2010]

Dexamethasone and bacterial meningitis. A meta-analysis of randomized c [West J Med. 1992]

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Database:

**Search details**

("adult" [MeSH Terms])

# Estrategia de Búsqueda con términos MeSH (2)

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# Estrategia de Búsqueda con términos MESH (2)

MeSH  
NLM Controlled Vocabulary

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

- Using MeSH**
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Escribir los términos en la caja de Búsqueda de MeSH



MeSH

MeSH

adult

Search

Save search Limits Advanced

Display Settings: Summary, 20 per page

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Results: 1 to 20 of 78 Selected: 1

<< First < Prev Page 1 of 4 Next > Last >>

[Adult](#)

1. A person having attained full growth or maturity. Adults are of 19 through 44 years of age.  
Year introduced: 1966

[Leukemia-Lymphoma, Adult T-Cell](#)

2. Aggressive T-Cell malignancy with **adult** onset, caused by HUMAN T-LYMPHOTROPIC VIRUS 1. It is endemic in Japan, the Caribbean basin, Southeastern United States, Hawaii, and parts of Central and South America and sub-Saharan Africa.  
Year introduced: 2008 (1989)

[Lead Poisoning, Nervous System, Adult](#)

3. Neurologic conditions in adults associated with acute or chronic exposure to lead or any of its salts. The most common lead related neurologic syndrome in adults consists of a polyneuropathy involving motor fibers. This tends to affect distal nerves and may present as wrist drop due to RADIAL NEUROPATHY. Additional features of chronic lead exposure include ANEMIA; CONSTIPATION; colicky abdominal pain; a bluish lead line of the gums; interstitial nephritis (NEPHRITIS, INTERSTITIAL); and saturnine gout. An encephalopathy may rarely occur. (From Adams et al., Principles of Neurology, 6th ed, p1212)  
Year introduced: 2000

[Adult Children](#)

PubMed search builder

"Adult" [Mesh]

Add to search builder

AND

Search PubMed

Find related data

Database: Select

Find items

Search details

"adult"[MeSH Terms] OR adult [Text Word]

MeSH

MeSH

adult

Search

Save search Limits Advanced

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Adult

1. A person having attained full growth or maturity. Adults are of 19 through 44 years of age. Year introduced: 1966

Leukemia-Lymphoma, Adult T Cell

2. Aggressive T-Cell malignant lymphoma of Japan, the Caribbean basin, and Saharan Africa. Year introduced: 2008 (1989)

Lead Poisoning, Nervous System

3. Neurologic conditions in adults associated with acute or chronic exposure to lead or any of its salts. The most common lead related neurotoxicity is lead neuropathy. This tends to affect distal nerves and is characterized by weakness and numbness. Lead exposure include Acute and Chronic Lead Poisoning. Nephritis (NEPHRITIS, Interstitial Nephritis). al., Principles of Neurology. Year introduced: 2000

Adult Children

PubMed search builder

"Adult" [Mesh]

Add to search builder

AND

Search PubMed

Find related data

Database: Select

Find items

Search details

"adult" [MeSH Terms] OR adult [Text Word]

Seleccionar el termino Mesh, luego dar clic en **Add to search builder** previa selección del operador booleano

Después de haber agragado los terminos mesh para la construcción de la estrategia de búsqueda, finalmente dar clic en **Search Pubmed**



# Estrategia de Búsqueda con términos MESH (2)

	PICO	
	Término Libre	Término Mesh
Paciente	<ul style="list-style-type: none"> <li>• Adult</li> <li>• bacterial meningitis</li> </ul>	<ul style="list-style-type: none"> <li>• Adult [Mesh]</li> <li>• "Meningitis, Bacterial"[Mesh]</li> </ul>
Intervención	<ul style="list-style-type: none"> <li>• dexamethasone</li> <li>• antibiotic</li> </ul>	<ul style="list-style-type: none"> <li>• Dexamethasone[Mesh]</li> <li>• _____</li> </ul>
Comparación	<ul style="list-style-type: none"> <li>• _____</li> </ul>	<ul style="list-style-type: none"> <li>• _____</li> </ul>
Outcomes o Resultados	<ul style="list-style-type: none"> <li>• neurological complications</li> <li>• mortality</li> </ul>	<ul style="list-style-type: none"> <li>• _____</li> <li>• Mortality[Mesh]</li> </ul>

# Estrategia de Búsqueda (2)

- P → adult[Mesh], "Meningitis, Bacterial"[Mesh]
- I → Dexamethasone[Mesh], antibiotic
- C → \_\_\_\_\_
- O → neurological complications, Mortality[Mesh],

adult[Mesh] AND "Meningitis, Bacterial"[Mesh]  
AND Dexamethasone[Mesh] AND antibiotic AND  
(neurological complications OR Mortality[Mesh])

adult[Mesh] AND "Meningitis, Bacterial"[Mesh]  
AND Dexamethasone[Mesh] AND antibiotic AND  
(neurological complications OR Mortality[Mesh])

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[\[A case of Staphylococcus aureus meningitis-associated quadriparesis with its successful treatment with adrenocorticosteroid\].](#)

1. Washida K, Yasui N, Kaneda D, Suzuki S, Kato T.

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2. Sinha MK, Garg RK, Anuradha HK, Agarwal A, Parihar A, Mandhani PA.

J Infect. 2010 Jun;60(6):458-66. Epub 2010 Mar 25.

PMID: 20346972 [PubMed - indexed for MEDLINE]

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3. Schut ES, de Gans J, van de Beek D.

Pract Neurol. 2008 Feb;8(1):8-23. Review.

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4. Lefebvre N, Carre AC, Delabranche X, Guiot P, Mootien Y.

Med Mal Infect. 2007 Feb;37(2):118-20. Epub 2007 Jan 30. French.

PMID: 17267155 [PubMed - indexed for MEDLINE]

[Related citations](#)

[Meningitis due to an unusual human pathogen: Streptococcus equi subspecies equi.](#)

5. Popescu GA, Fuerea R, Benea E.

South Med J. 2006 Feb;99(2):190-1.

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"adult" [MeSH Terms]  
AND "Meningitis,  
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AND "Dexamethasone" [Mesh] AND  
("anti-bacterial agents" [MeSH

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adult[Mesh] AND "Meningitis, Bacterial"[Mesh]  
AND "Dexamethasone"... (13) PubMed


# Uso de LIMITES en PUBMED



★ Favoritos  mortality - MeSH - NCBI adult[Mesh] AND "Men... x

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PubMed.gov PubMed  adult[Mesh] AND "Meningitis, Bacterial"[Mesh] AND "Dexamethasone"[Mesh] AND an  Search

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J Infect. 2010 Jun;60(6):458-66. Epub 2010 Mar 25.  
PMID: 20346972 [PubMed - indexed for MEDLINE]  
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  3. Schut ES, de Gans J, van de Beek D.  
Pract Neurol. 2008 Feb;8(1):8-23. Review.  
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  4. Lefebvre N, Carre AC, Delabranche X, Guiot P, Mootien Y.  
Med Mal Infect. 2007 Feb;37(2):118-20. Epub 2007 Jan 30. French.  
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- Clinical Trial
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- Practice Guideline

**Languages**

- English
- French
- German
- Italian
- Japanese

**Species**

- Humans
- Animals

**Sex**

- Male
- Female

**Subsets**

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- Core clinical journals

**Ages**

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

**Text Options**

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

**Search Field Tags**

Field:

Reset

Search

Limits

En tipo de articulo, seleccionamos **Meta-análisis, Guía de Practica Clínica, Estudio clínico controlado randomizado y revisión**

Dates

Published in the Last: Any date

Type of Article

- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

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Species

- Humans
- Animals

Subsets

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
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Text Options

Languages

- English
- French
- German
- Italian
- Japanese

Sex

- 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

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1. Schut ES, de Gans J, van de Beek D.  
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2. Gijwani D, Kumhar MR, Singh VB, Chadda VS, Soni PK, Nayak KC, Gupta BK.  
Neurol India. 2002 Mar;50(1):63-7.  
PMID: 11960154 [PubMed - indexed for MEDLINE] **Free Article**  
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[The antibiotic and anti-inflammatory treatment of bacterial meningitis in adults: do we have to change our strategies in an era of increasing](#)

3. [antibiotic resistance?](#)  
Vandecasteele SJ, Knockaert D, Verhaegen J, Van Eldere J, Peetermans WE.  
Acta Clin Belg. 2001 Jul-Aug;56(4):225-33. **Review.**  
PMID: 11603252 [PubMed - indexed for MEDLINE]  
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[Dexamethasone as adjunctive therapy in bacterial meningitis. A meta-analysis of randomized clinical trials since 1988.](#)

4. McIntyre PB, Berkey CS, King SM, Schaad UB, Kilpi T, Kanra GY, Perez CM.  
JAMA. 1997 Sep 17;278(11):925-31.  
PMID: 9302246 [PubMed - indexed for MEDLINE]  
[Related citations](#)

All (6)

[Free Full Text \(1\)](#)

[Review \(3\)](#)

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Database:

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"adult"[MeSH Terms]  
AND "Meningitis,  
Bacterial"[Mesh]  
AND "Dexamethasone"[Mesh] AND  
("anti-bacterial agents"[MeSH

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adult[Mesh] AND "Meningitis, Bacterial"[Mesh]  
AND "Dexamethasone"[Mesh]



# Búsqueda en Clinical Queries

**Consultas Clínicas**

adult AND bacterial meningitis AND dexamethasone AND antibiotic AND (neurological complications OR mortality)

## PubMed Clinical Query

Search

Search

Clear

Results of searches on this page are limited to specific clinical re

tly.

### Clinical Study Categories

Category: Therapy

Scope: Narrow

Etiology  
Diagnosis  
**Therapy**  
Prognosis  
Clinical prediction guides

### Medical Genetics

Topic: All

### Sample Results of Clinical Study Category Query

### Sample Results of Systematic Reviews Query

### Sample Results of Medicinal Genetics Query

Filter citations to a specific clinical study category and scope. These search filters were developed by [Haynes RB et al.](#)

views of  
lopment

Filter citations to topics in medical genetics.

**Broad**  
Narrow

You are here: NCBI > Literature > PubMed

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# PubMed Clinical Queries

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adult AND bacterial meningitis AND dexamethasone AND antibiotic AND (neurological complications OR mortality)

Search

## Clinical Study Categories

Category: Therapy

Scope: Broad

Results: 5 of 52

Timing of initiation of antiretroviral therapy in human immunodeficiency virus (HIV)-associated tuberculous meningitis.

[Clin Infect Dis. 2011]

Cortisol kinetics in cerebrospinal fluid during bacterial meningitis.

[J Clin Neurosci. 2011]

Adjunctive steroid treatment in acute bacterial meningitis. "To do or not to do: that is the question".

[Acta Clin Belg. 2011]

[A case of Staphylococcus aureus meningitis-associated quadriparesis with its successful treatment with adrenocorticosteroid].

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Paradoxical vision loss associated with optochiasmatic tuberculoma in tuberculous meningitis: a report of 8 patients.

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## Systematic Reviews

Results: 5 of 8

Adjunctive dexamethasone in bacterial meningitis: a meta-analysis of individual patient data.

[Lancet Neurol. 2010]

Adjunctive dexamethasone therapy for bacterial meningitis in adults: a meta-analysis of randomized controlled trials.

[Eur J Neurol. 2009]

[Effects of corticosteroids on adults with tuberculous meningitis admitted to intensive care unit: a propensity score analysis].

[Rev Med Interne. 2009]

Corticosteroids for managing tuberculous meningitis.

[Cochrane Database Syst Rev. 2008]

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## Medical Genetics

Topic: All

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Broad  
Narrow

## Clinical Study Categories

Category: Therapy

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## Medical Genetics

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adult AND bacterial meningitis AND dexamethasone AND antibiotic AND (neurological complications OR mortality)

Search

## Clinical Study Categories

Category: Therapy

Scope: Narrow

Results: 5 of 10

Timing of initiation of antiretroviral therapy in human immunodeficiency virus (HIV)-associated tuberculous meningitis.

[Clin Infect Dis. 2011]

Corticosteroids for bacterial meningitis in adults in sub-Saharan Africa.

[N Engl J Med. 2007]

Dexamethasone in Vietnamese adolescents and adults with bacterial meningitis.

[N Engl J Med. 2007]

Levels of vancomycin in cerebrospinal fluid of adult patients receiving adjunctive corticosteroids to treat pneumococcal meningitis: a prospective multicenter observational study.

[Clin Infect Dis. 2007]

Dexamethasone in adults with bacterial meningitis.

[N Engl J Med. 2002]

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## Systematic Reviews

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Adjunctive dexamethasone in bacterial meningitis: a meta-analysis of individual patient data.

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