

# Fuentes de Información y Búsqueda de la literatura Científica en Medicina Interna

**"Fortalecer las Buenas Prácticas Asistenciales"**



**Por la Seguridad de Nuestros Pacientes**

MODULO MEDICINA INTERNA

**Dr. Netzahualpilli Delgado Figueroa**

Universidad de Guadalajara, CUCS

Hospital Civil de Guadalajara



## **Declaración de conflictos de interés:**

**-No recibo dinero de la industria farmacéutica, ni dispositivos médicos.**

## **Afiliaciones:**

- Profesor Universitario de UDG**
- Médico especialista en HCG FAA**
- Coordinador regional en Cochrane Mx**

# Contenidos:

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1. Introducción a la búsqueda de la literatura científica
2. Clasificación de las fuentes de información
3. ¿Cuáles son las principales bases de datos útiles?
4. Herramientas enfocadas a mejorar la experiencia de búsqueda



[Foto por: Edwin Andrade @theunsteady5](#)

# 1. Introducción a la búsqueda

Research  
Synthesis Methods



RESEARCH ARTICLE |  Open Access |   

Which academic search systems are suitable for systematic reviews or meta-analyses? Evaluating retrieval qualities of Google Scholar, PubMed, and 26 other resources

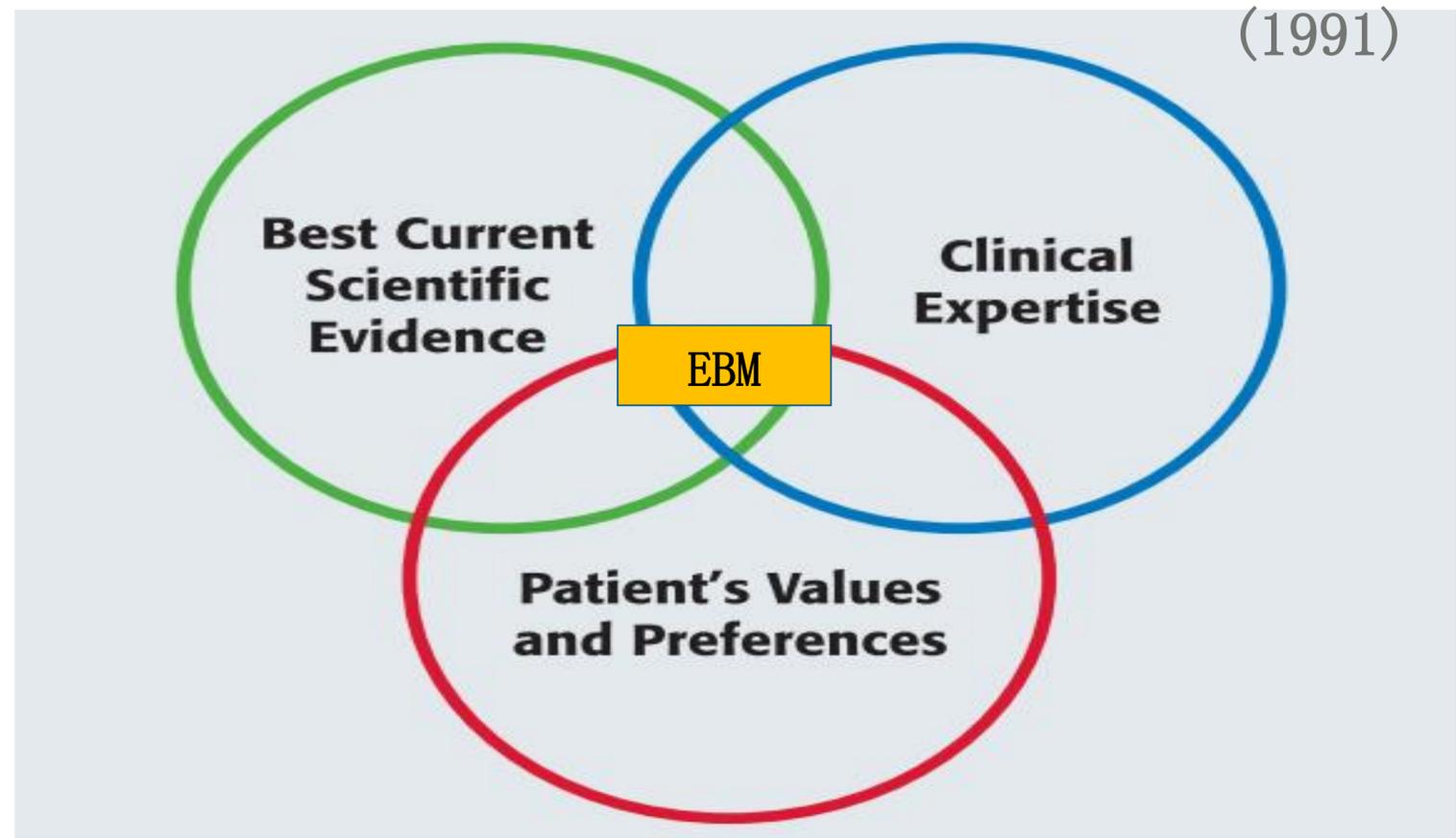
Michael Gusenbauer , Neal R. Haddaway

First published: 15 October 2019 | <https://doi.org/10.1002/jrsm.1378> | Citations: 2

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<https://doi.org/10.1002/jrsm.1378>

# EVIDENCE BASED MEDICINE



- La mejor evidencia científica actual
- Experiencia del clínico
- Los valores y preferencias de los pacientes



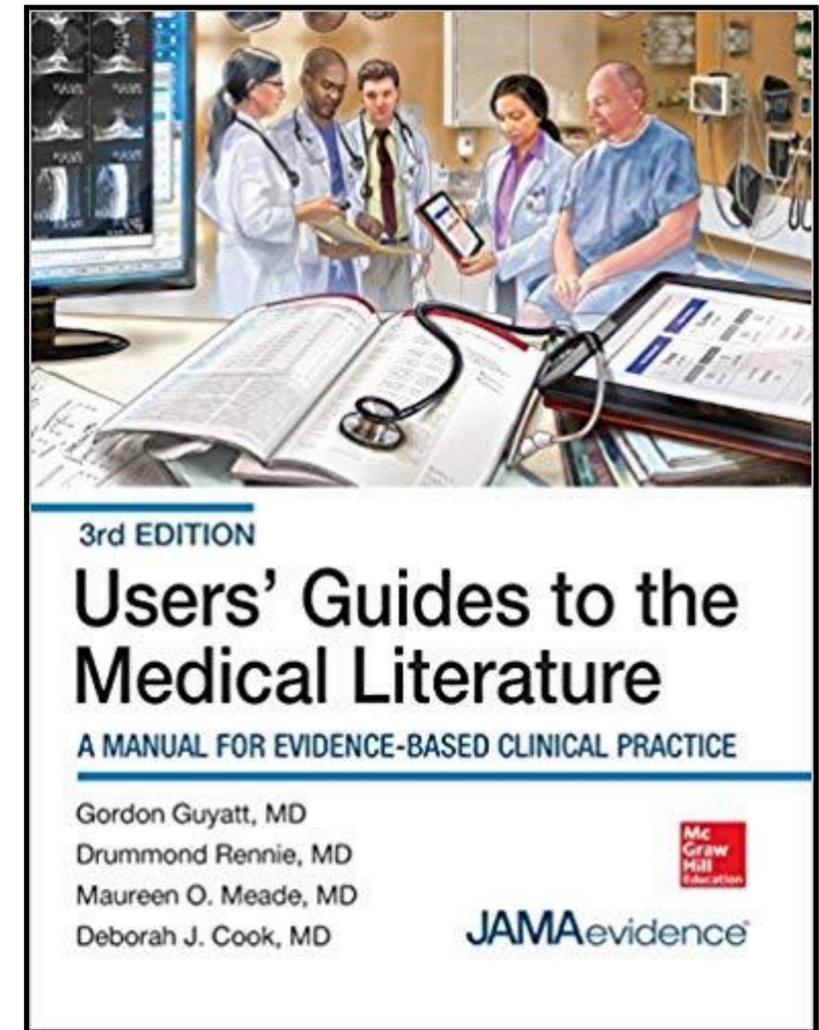
Sharon McCutcheon  
@sharonmccutcheon

## Proceso de EBM:

- Las decisiones que toman los clínicos día a día:
  - Principal fuente de preguntas que busquen soluciones basadas en la evidencia
    - Traducir la incógnita clínica a una pregunta clínica estructurada (PICO)
    - Buscar la mejor evidencia disponible para responder la pregunta (Base Datos)
    - Realizar evaluación crítica de la evidencia obtenida (CASP)
    - Aplicar la evidencia encontrada
    - Reflexionar sobre el resultado obtenido

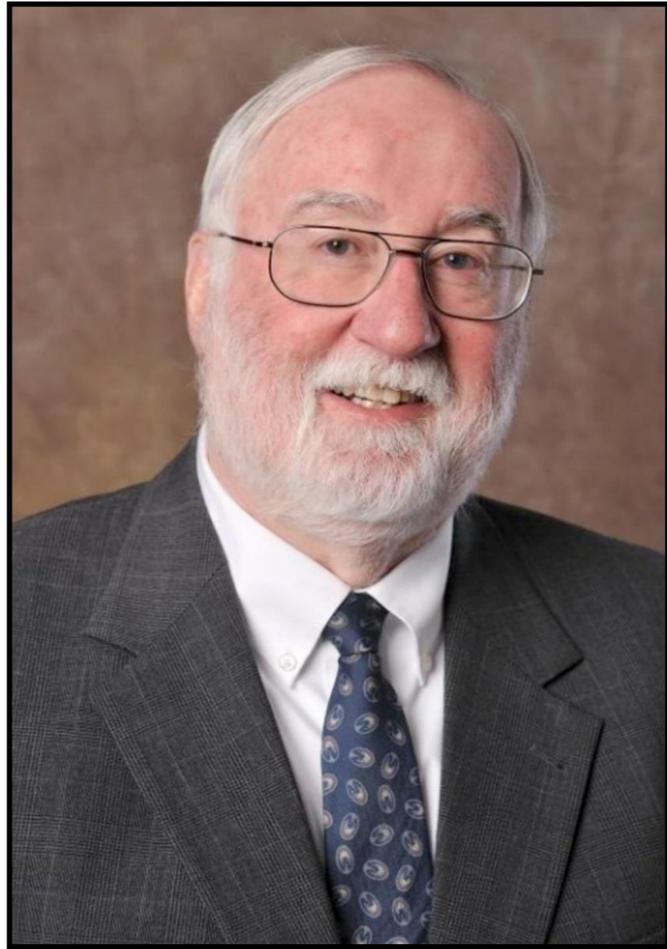
# Inicios de la practica basada en la evidencia:

- Primeros artículos sobre evaluación crítica de evidencia hasta 1981
- Hasta 10 años después se acuña termino “Medicina Basada en la Evidencia”
- Entre 1993 y el 2000 surgen una serie de artículos enfocados a enseñar como evaluar la literatura



Brignardello-Petersen, R., Carrasco-Labra, A., Glick, M., Guyatt, G. H., & Azarpazhooh, A. (2014). A practical approach to evidence-based dentistry: Understanding and applying the principles of EBD. *Journal of the American Dental Association*, 145(11), 1105-1107.

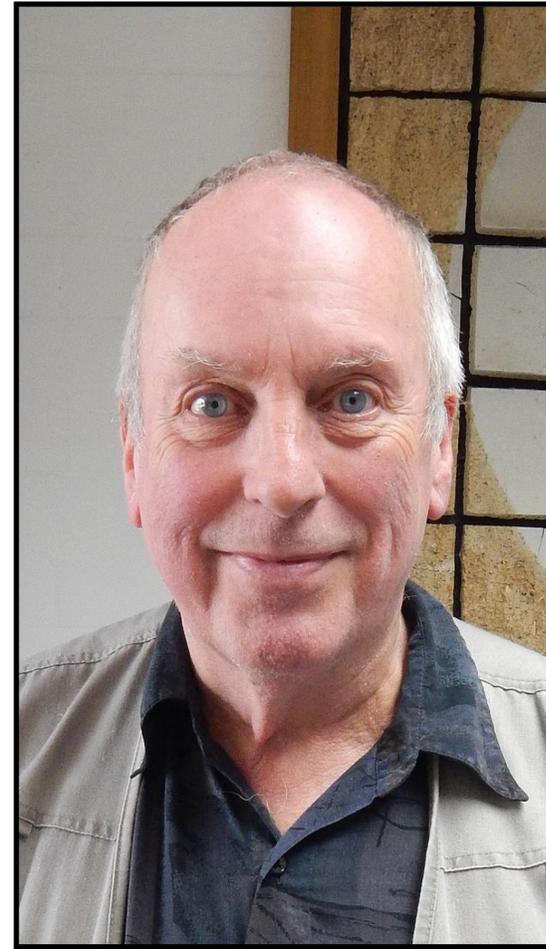
<http://doi.org/10.14219/jada.2014.102>



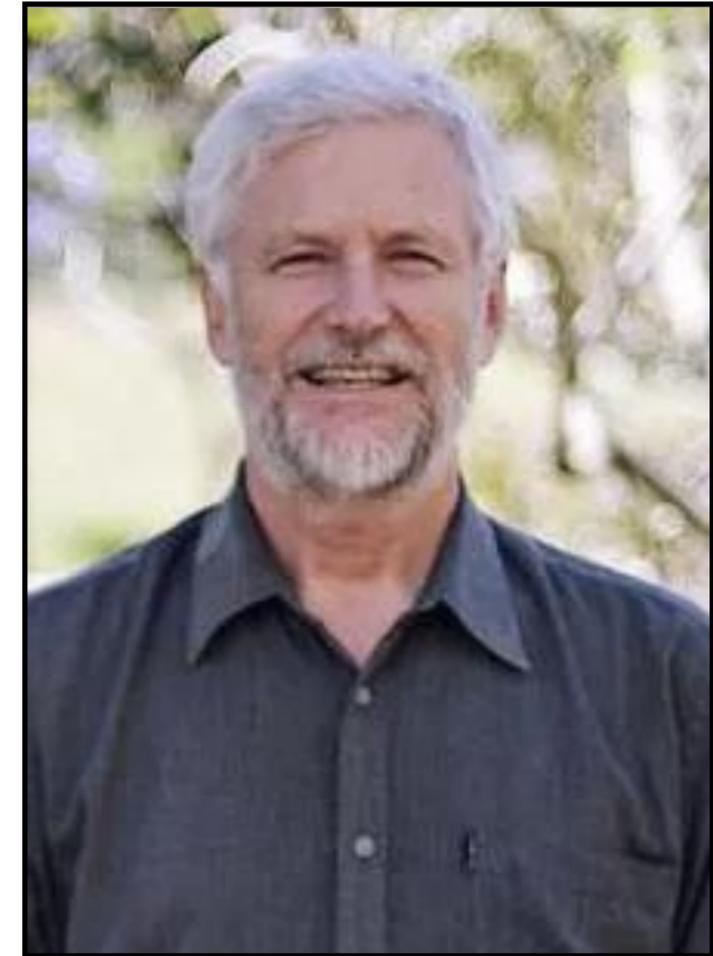
David Lawrence  
Sackett, MD



Gordon Henry  
Guyatt, MD

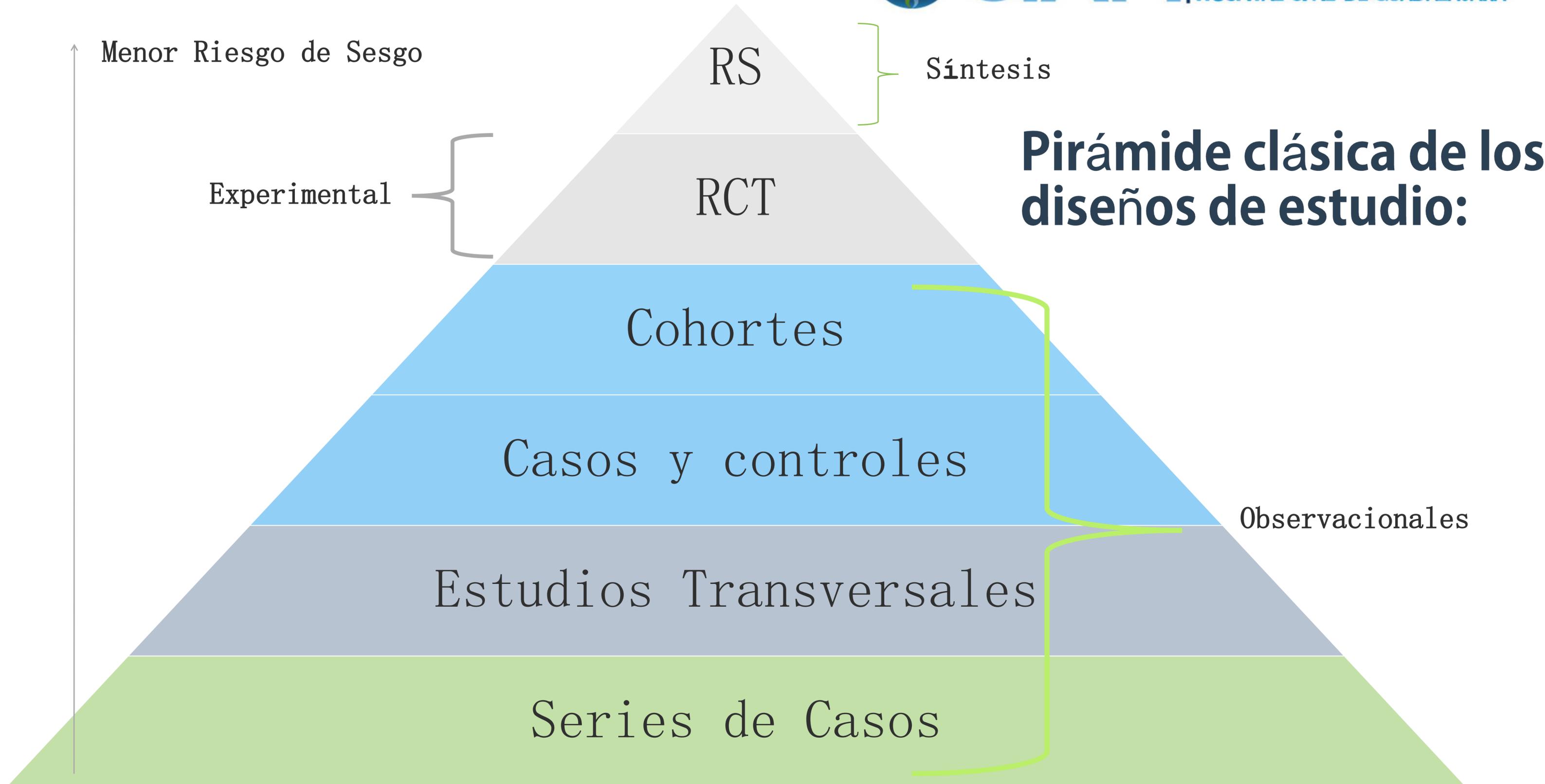


Iain Chalmers, MD



Paul Glasziou, MD



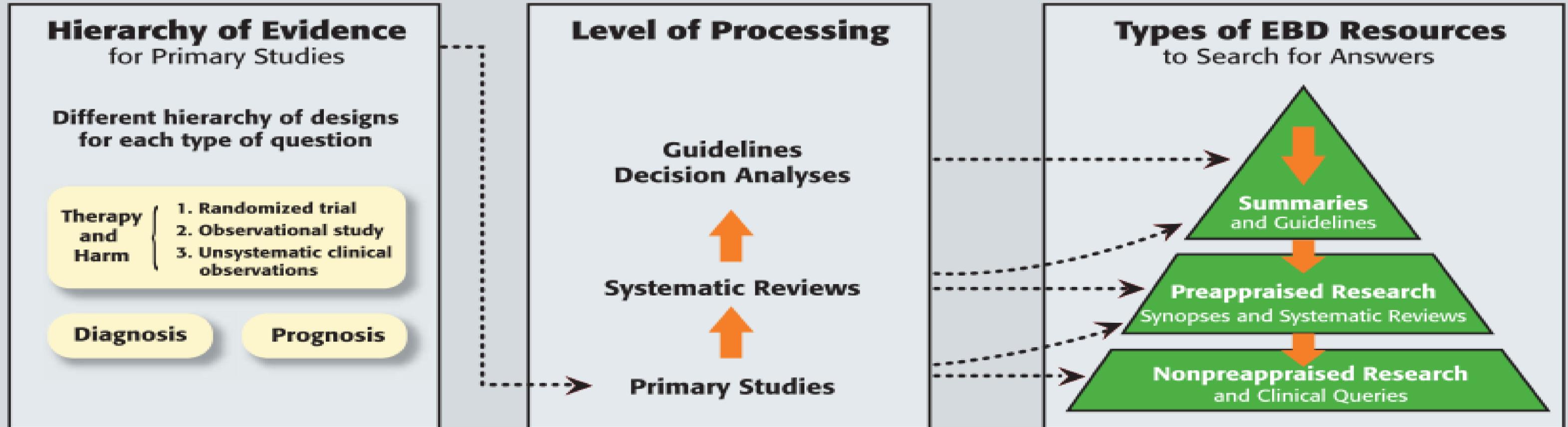


## Por qué es importante el saber cómo buscar la mejor evidencia actual:

- Debido al creciente número de publicaciones las cuales evalúan la efectividad de los tratamientos
  - Cada vez hay más clínicos familiarizados con las bases de datos
  - Más agrupaciones de pacientes que consultan las bases de datos



# Tipos de evidencia:



Brignardello-Petersen, R., Carrasco-Labra, A., Booth, H. A., Glick, M., Guyatt, G. H., Azarpazhooh, A., & Agoritsas, T. (2014). A practical approach to evidence-based dentistry: How to search for evidence to inform clinical decisions. *Journal of the American Dental Association*, 145(12), 1262-1267. <http://doi.org/10.14219/jada.2014.113>

# BASES DE DATOS



# ENSAYOS CLINICOS



# MEDLINE (1946 - 2020)

# ESPAÑOL



# Clasificando las bases de datos:

Acceso Libre (Open Access)\*:



De paga (Privadas)\*:



\*Soportan Literatura Gris



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atrial fibrillation



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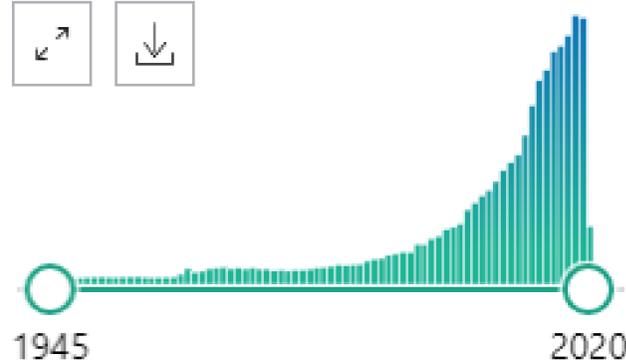
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RESULTS BY YEAR



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Abstract



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### Atrial Fibrillation.

1 Zimetbaum P. *Ann Intern Med* 2017 - *Review*. PMID 28265666

This issue provides a clinical overview of **atrial fibrillation**, focusing on diagnosis, treatment, and practice improvement. The content of In the Clinic is drawn from the clinical information and education resources of the American College of Physicians (ACP), including MKSAP (Medical Knowledge and Self-Assessment Program). ...

“ Cite Share



### Atrial Fibrillation in the ICU.

2 Bosch NA, et al. *Chest* 2018 - *Review*. PMID 29627355 Free PMC article.

**Atrial fibrillation** (AF) is the most common arrhythmia encountered in the ICU. Preexisting AF is highly prevalent among older patients with chronic conditions who are at risk for critical illness, whereas new-

Feedback

# https://github.com/ncbi



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<http://www.ncbi.nlm.nih.gov>
[github-tools@ncbi.nlm.nih.gov](mailto:github-tools@ncbi.nlm.nih.gov)

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**gprobe**  
 client app for the gRPC health-checking protocol  
 ● Go ★ 9 🍴 5

Type: All ▾
Language: All ▾

**pm4ngs**

Project Manager for NGS data analysis

- bioinformatics
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- maseq
- ngs-analysis
- ngs-pipeline
- cwl-workflow
- chipseq



● Jupyter Notebook
 🍴 0
 ★ 5
 ⓘ 0
 🍴 0
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Top languages

- C++
- Python
- JavaScript
- CSS
- Common Workflow Language

Most used topics

En todo el documento  atrial fibrillation

Búsqueda exacta  Formas de palabras adicionales  Búsqueda multilingüe

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385 resultados en 159.699.402 documentos

**1. Real-world cost-effectiveness of rivaroxaban compared with vitamin K antagonists in the context of stroke prevention in atrial fibrillation in France** 

**Autor:** Bowrin, Kevin  [\[claim\]](#) ; Briere, Jean-Baptiste [\[claim\]](#) ; Fauchier, Laurent [\[claim\]](#) ; Coleman, Craig [\[claim\]](#) ; Millier, Aurélie [\[claim\]](#) ; Toumi, Mondher [\[claim\]](#) ; Clay, Emilie [\[claim\]](#) ; Levy, Pierre [\[claim\]](#)

**Editorial:** Public Library of Science (PLOS)

**Fecha de publicación:** 2020

**Fuente:** PLOS ONE ; volume 15, issue 1, page e0225301 ; ISSN 1932-6203

**Tipo de documento:** journal-article ; [Article contribution]

**Proveedor de datos:** PLOS Publications (via CrossRef) 

La vista en detalle | Enviar este por correo | Agregar a favoritos | Buscar en Google Scholar | Exportar

**2. Hypertension prevalence but not control varies across the spectrum of risk in patients with atrial fibrillation: A RE-LY atrial fibrillation registry sub-study** 

Ordenar los resultados

Fecha, descendente

Quitar filtros

Fecha de publicación: 2020

Delimitar los resultados de la búsqueda.

Autor

Materia

Clasificación Decimal de Dewey (CDD)

Proveedor de datos

Lenguaje

Tipo de documento

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*ClinicalTrials.gov*

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Showing: 1-50 of 101 studies  studies per page

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Status

Recruitment ⓘ:

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Row	Saved	Status	Study Title	Conditions	Interventions	Locations
1	<input type="checkbox"/>	Completed	<a href="#">Subarachnoid Bupivacaine in Obese Patients Undergoing Cesarean Delivery</a>	<ul style="list-style-type: none"><li>Anesthesia, Obstetrical</li></ul>	<ul style="list-style-type: none"><li>Drug: Bupivacaine 5 mg</li><li>Drug: Bupivacaine 10 mg</li></ul>	<ul style="list-style-type: none"><li>Hospital Civil de Guadalajara, Jalisco, Mexico</li></ul>
2	<input type="checkbox"/>	Completed	<a href="#">Supplementation of Thyroid Hormone for TSH Control in Patients With Chronic Kidney Disease Without TRR.</a>	<ul style="list-style-type: none"><li>Chronic Kidney Diseases</li><li>Subclinical Hypothyroidism</li></ul>	<ul style="list-style-type: none"><li>Drug: Levothyroxine</li></ul>	<ul style="list-style-type: none"><li>Kidney health clinic, Civil Hospital of Guadalajara, Jalisco, Mexico</li></ul>

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atrial fibrillation 🔍

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-  Periódicos

Más >

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1  Heart Disorders and Diseases - **Atrial Fibrillation** ; Reports from Brigham and Women's Hospital Provide New Insights into **Atrial Fibrillation** ( **Atrial fibrillation** inducibility during cavotricuspid isthmus-dependent **atrial** flutter abl ... **Obesity, Fitness & Wellness Week; Atlanta** [Atlanta]20 May 2017: 965.

...research stated, "**Atrial fibrillation** (AF) and cavotricuspid isthmus...  
...**fibrillation** inducibility during cavotricuspid isthmus-dependent **atrial** flutter...

Resumen/detalles [Texto completo](#) Vista ▾

---

2  Heart Disorders and Diseases - **Atrial Fibrillation** ; Research Conducted at University of Lodz Has Provided New Information about **Atrial Fibrillation** (Asymptomatic **atrial fibrillation** in patients with **atrial fibrillation** and implante ... **Medical Devices & Surgical Technology Week; Atlanta** [Atlanta]29 Jan 2017: 563.

... **Atrial Fibrillation** are discussed in a new report. According to news reporting...

Libros que coinciden con su búsqueda

---

 Chapter 5: Percutaneous Obliterat ... Windecker, Stephan, MD; Meier, Bernhard, MD. *Interventional Cardiology : an Atlas of Investigation...*

---

 16: **Atrial fibrillation**: antithrombotic therapy

[Búsqueda avanzada](#) [Ayuda](#)

**Por categoría**

- Todos**
- Síntesis amplias (19)
- Revisiones Sistemáticas (1786)
- Resúmenes Estructurados (409)
- Estudios primarios (2325)

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- Últimos 10 años
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Results: 1-10 of 4,538

-  Matriz de evidencia i

**Cierre percutáneo de la orejuela de la aurícula izquierda versus tratamiento anticoagulante en fibrilación auricular**

This matrix includes 5 Revisiones Sistemáticas [Show](#)
-  Matriz de evidencia i

**Direct thrombin inhibitors (excluding ximelagatran) for atrial fibrillation**

This matrix includes 39 Revisiones Sistemáticas [Show](#)
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**Mantenimiento de la aspirina en pacientes con anticoagulantes orales y otra indicación de aspirina**

This matrix includes 14 Revisiones Sistemáticas [Show](#)
-  Matriz de evidencia i

**Control permisivo de la frecuencia versus control estricto para la fibrilación auricular**

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**Control de ritmo versus frecuencia en fibrilación auricular**

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Revisión sistemática ⚡

**Atrial fibrillation.**

Año » 2013  
Autores » Bang CN  
Revista » Danish medical journal  
Enlaces » Pubmed

Sin referencias

Revisión sistemática

**Prevención de accidente vascular encefálico en la fibrilación auricular** 👤

Año » 2013  
Autores » Lopes RD , Crowley MJ , Shah BR , Melloni C , Wood KA , Chatterjee R - **Más**  
Reporte » Rockville (MD): Agency for Healthcare Research and Quality (US); Report No.: 13-EHC113-EF  
Enlaces » Pubmed

Este artículo está incluido en 1 Síntesis amplia  
Este artículo incluye 99 Estudios primarios (122 referencias) ⓘ

Revisión sistemática

**El tratamiento de la fibrilación auricular** 👤

Año » 2013  
Autores » Al-Khatib SM , Lapointe NA , Chatterjee R , Crowley MJ , Dupre ME , Kong DF - **Más**  
Libro » AHRQ Comparative Effectiveness Reviews  
Enlaces » Pubmed

Este artículo incluye 149 Estudios primarios (182 referencias) ⓘ

Revisión sistemática ⚡

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**Direct thrombin inhibitors (excluding ximelagatran) for atrial fibrillation**

Noviembre 14, 2013 *Gabriel Rada*

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18 Referencias (6 Estudios primarios) Estudificar <sup>Ⓢ</sup> 94.4% Ensayo controlado aleatorizado (ECA) 17 / 18

- Connolly SJ 2009
- Ezekowitz MD 2007
- Olsson SB 2010
- Ezekowitz MD 2009
- Boehringer Inge... 2005
- Lip GY 2009
- Wallentin L 2010
- Oldgren J 2011
- FDA Advisory Co.. 2010
- Diener HC 2010
- Hart RG 2012
- Hohnloser SH 2012
- Eikelboom JW 2011
- Ezekowitz MD 2010
- Nagarakanti R 2011
- Healey JS 2012
- Flaker G 2012
- Boehringer Inge.. 2005

39 Revisiones sistemáticas



Author (Year)	Connolly SJ 2009	Ezekowitz MD 2007	Olsson SB 2010	Ezekowitz MD 2009	Boehringer Inge... 2005	Lip GY 2009	Wallentin L 2010	Oldgren J 2011	FDA Advisory Co.. 2010	Diener HC 2010	Hart RG 2012	Hohnloser SH 2012	Eikelboom JW 2011	Ezekowitz MD 2010	Nagarakanti R 2011	Healey JS 2012	Flaker G 2012	Boehringer Inge.. 2005
Liu GJ 2014	■	■	■			■												■
Carlos A Salaz.. 2014	■	■	■		■	■			■									
Caldeira D 2014	■																	
Lopes RD 2013	■	■						■		■	■	■	■		■	■		
Biondi-Zoccai G 2013	■	■																
Sardar P 2013	■																	
Gauthier K 2013	■	■					■	■		■	■	■	■	■				
Artang R 2013			■			■						■						
Holster IL 2013	■	■																
Pancholy SB 2014	■																	
Assiri A 2013	■	■																



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Issue 2 of 12, February 2020

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1  **Lightweight versus Heavyweight mesh for laparoscopic repair of inguinal hernia**

Muhammad S Sajid, Catherine Leaver, Parv Sains, Mirza K Baig

Intervention Review 28 February 2013 New

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2  **Lightweight versus Heavyweight mesh for open repair of inguinal hernia**

Muhammad S Sajid, Catherine Leaver, Mirza K Baig, Parv Sains

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PICO QUESTION BUILDER

# Colorectal cancer

## Type of question

Treatment or prevention ✖

## Population

Colorectal cancer

## Filter references by

Population

Treatment

Filter

- ▶ Pharmacological interventions
  - Antineoplastic agents
- ▶ Physical activity and physical therapy
- ▶ CAM
- ▶ Surgery and procedures

Summary References

Colorectal cancer <https://app.iloveevidence.com/>

We have identified **2465 systematic reviews** addressing questions about therapeutic or preventive interventions, the most recent published in 2020

## About this L-**OVE**

This L-**OVE** topic brings together all the systematic reviews relevant to **Colorectal cancer**. It organizes the evidence in PICO-question format and keeps it up to date in a simple, friendly format.

L-**OVE** saves you the time you would spend searching and screening, provides the most comprehensive evidence base for a question, and makes living evidence a reality.

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PICO QUESTION BUILDER

Colorectal cancer

Type of question

Treatment or prevention

Population

Colorectal cancer

Treatment

Pharmacological interventions

Summary References

Pharmacological interventions for colorectal cancer

We have identified 1248 systematic reviews, the most recent published in 2020

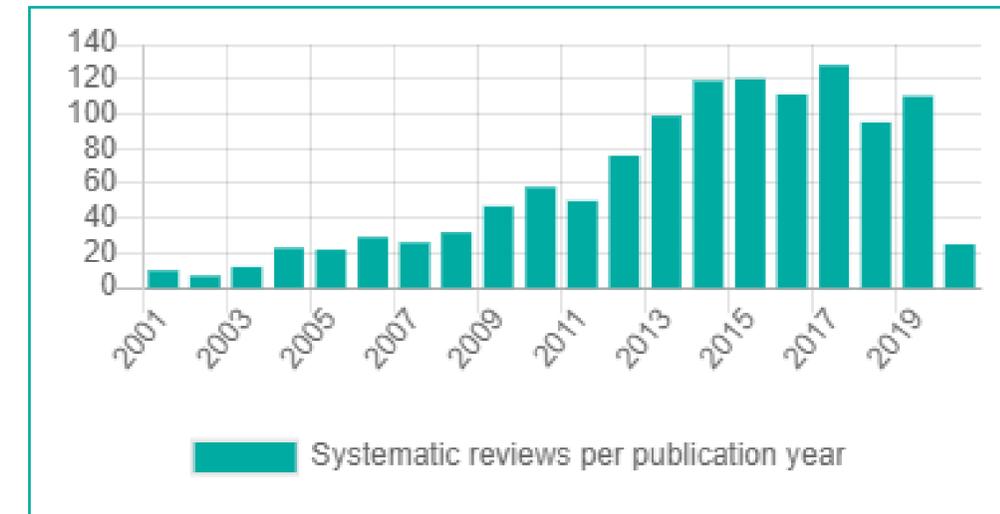
Narrow the question

Some articles address a narrower population:

- Early stage colorectal cancer

Some articles address a narrower intervention:

- Chemotherapy
Methotrexate
Targeted therapies
Cytokines



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Filter references by

Population Treatment

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Chemotherapy

PICO QUESTION BUILDER

Colorectal cancer

Type of question

Treatment or prevention X

Population

Colorectal cancer

Treatment

Pharmacological interventions X

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Treatment

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Pharmacological interventions

Chemotherapy

Methotrexate

Summary References

1248 Systematic reviews

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Systematic review

Astaxanthin anticancer effects are mediated through multiple molecular mechanisms: a systematic review.

Year 2020

Journal Pharmacological research

Authors Faraone I, Sinisgalli C, Ostuni A, Armentano MF, Carmosino M, Milella L, Russo D, Labanca F, Khan H

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Systematic review

Prognostic and Predictive Role of DNA Mismatch Repair Status in Stage II-III Colorectal Cancer: A Systematic Review and Meta-Analysis.

Year 2020

Journal Clinical genetics

Authors Deng Z, Qin Y, Wang J, Wang G, Lang X, Jiang J, Xie K, Zhang W, Xu H, Shu Y,

See in Epistemonikos

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Colección principal de Web of Science ▼

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Búsqueda básica Búsqueda de autores <sup>BETA</sup> Búsqueda de referencia citada Búsqueda avanzada

Ejemplo: oil spill\* mediterranean

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Sugerencias de búsqueda

+ Agregar fila | Restablecer

Período de tiempo

Todos los años (1980 - 2020) ▼

MÁS AJUSTES ▼

## Bases de datos más útiles:

- BASE
- ClinicalTrials.gov
- Cochrane Library
- EbscoHost (ERIC, Medline, EconLit, CINHALL Plus, SportsDiscus)
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- Scopus
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- Web of Science (Web of Science Core Collection, Medline)
- Wiley Online Library

Gusenbauer, M, Haddaway, NR. Which academic search systems are suitable for systematic reviews or meta-analyses? Evaluating retrieval qualities of Google Scholar, PubMed, and 26 other resources. Res Syn Meth. 2020; 1– 37. <https://doi.org/10.1002/jrsm.1378>



# Gracias!

