

Tips and Strategies for Effective Literature Searching

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What I plan to talk about

- ◆ General hints for searching
- ◆ Power searching PubMed
 - ◆ Advanced Search
 - ◆ MeSH
- ◆ Introducing Embase
 - ◆ Special search interfaces
 - ◆ Emtree
- ◆ Getting full text of articles
- ◆ Managing references with Endnote and Zotero

General hints for searching

- ◆ Try putting quotes around exact phrases

Search "peer education"	830
Search peer education	21705

General hints for searching

- ◆ Most databases support a truncation function
 - ◆ Adolescen* = adolescent OR adolescents OR adolescence

General hints for searching

◆ Take a look at what fields are available

PubMed	▼	hiv mexico
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Can social network analysis help to include marginalised young women in structural support programmes in Botswana? A mixed methods study.

[Loutfi D](#)¹, [Andersson N](#)^{2,3}, [Law S](#)^{4,5}, [Salsberg J](#)⁶, [Haggerty J](#)², [Kgakole L](#)⁷, [Cockcroft A](#)^{2,7}.

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- 6 Graduate Entry Medical School, University of Limerick, Plassey Park, Co. Limerick, V94 T9PX, Ireland.
- 7 CIET Trust Botswana, PO Box 1240, Gaborone, Botswana.

Abstract

BACKGROUND: In Botswana, one fifth of the adult population is infected with HIV, with young women most at risk. Structural factors such as poverty, poor education, strong gender inequalities and gender violence render many young women unable to act on choices to protect themselves from HIV. A national trial is testing an intervention to assist young women to access government programs for returning to education, and improving livelihoods. Accessing marginalised young women (aged 16-29 and not in education, employment or training) through door-to-door recruitment has proved inefficient. We investigated social networks of young women to see if an approach based on an understanding of these networks could help with recruitment.

Using the PICO framework

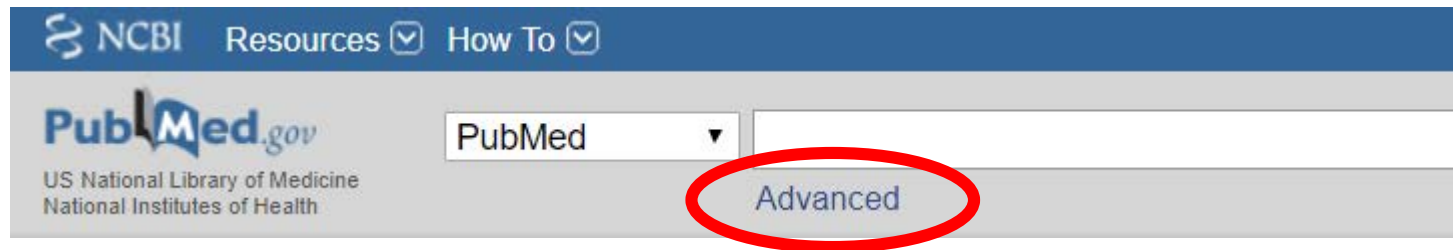
- ◆ PICO helps you structure an answerable question
 - ◆ **P**opulation
 - ◆ **I**ntervention
 - ◆ **C**omparison or control
 - ◆ **O**utcome
- ◆ Not all research topics neatly fit into PICO format, but it helps to think about each component concept of your topic before you come up with the keywords you plan to search

Using the PICO framework

- ◆ Example
 - ◆ **P**opulation: HIV+ African Americans
 - ◆ **I**ntervention: counseling
 - ◆ **C**omparison or control:
 - ◆ **O**utcome: ART adherence

Power searching in PubMed

- ◆ The Advanced search screen



Power searching in PubMed

("african american") OR "african americans" OR black

[Edit](#)

Builder

	All Fields ▼	"african american"
OR ▼	All Fields ▼	"african americans"
OR ▼	All Fields ▼	black
AND ▼	All Fields ▼	

Search

or [Add to history](#)

PubMed constructs the search based on what you type in the builder

If there are multiple ways that the literature might talk about this concept, use OR to connect the synonyms

This adds it to the history section at the bottom of the page. You can use it again later

Power searching in PubMed

((art OR "antiretroviral treatment")) AND adherence

[Edit](#)

Builder

All Fields ▼

art OR "antiretroviral treatment"

AND ▼

All Fields ▼

adherence

AND ▼

All Fields ▼

Search

or [Add to history.](#)

Use AND if both words need to appear in the results

You can also type operators directly into the search box

Power searching in PubMed

(counsel*) AND intervention

[Edit](#)

Builder

	All Fields ▼	counsel*
AND ▼	All Fields ▼	intervention
AND ▼	All Fields ▼	

Search

or [Add to history](#)

Power searching in PubMed

[Download history \(](#)

Add to builder	Query	Items found
Add	Search (counsel*) AND intervention	63420
Add	Search ((art OR "antiretroviral treatment")) AND adherence	4119
Add	Search (("african american") OR "african americans") OR black	221442

Clicking
"Add"
puts the
searches
back into
the
builder

Power searching in PubMed

(((((counsel*) AND intervention)) AND (((art OR "antiretroviral treatment")) AND adherence)) AND (((("african american") OR "african americans") OR black)

[Edit](#)

[Clear](#)

Builder

	All Fields ▼	(counsel*) AND intervention	⊖	Show index list
AND ▼	All Fields ▼	((art OR "antiretroviral treatment")) AND adherence	⊖	Show index list
AND ▼	All Fields ▼	((("african american") OR "african americans") OR black	⊖	Show index list
AND ▼	All Fields ▼		⊖ ⊕	Show index list

Search o [Add to history](#)

History

[Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
#17	Add	Search (counsel*) AND intervention	63420	20:23:47
#16	Add	Search ((art OR "antiretroviral treatment")) AND adherence	4119	20:20:52
#14	Add	Search ((("african american") OR "african americans") OR black	221442	20:19:12

Power searching in PubMed

- ◆ Why use the Advanced search screen?
 - ◆ Easy way to access fields
 - ◆ When you build your search one piece at a time, it's easy to go back and edit only a part of the search instead of having to dig through a long search string

Power searching in PubMed

❖ Why did we get this result?

Multidisciplinary Point-of-Care Testing in South African Primary Health Care Clinics Accelerates HIV ART Initiation but Does Not Alter Retention in Care.

Stevens WS¹, Gous NM, MacLeod WB, Long LC, Variava E, Martinson NA, Sanne I, Osih R, Scott LE.

Author information

Abstract

BACKGROUND: Lack of accessible laboratory infrastructure limits HIV antiretroviral therapy (ART) initiation, monitoring, and retention in many resource-limited settings. Point-of-care testing (POCT) is advocated as a mechanism to overcome these limitations. We executed a pragmatic, prospective, randomized, controlled trial comparing the impact of POCT vs. standard of care (SOC) on treatment initiation and retention in care.

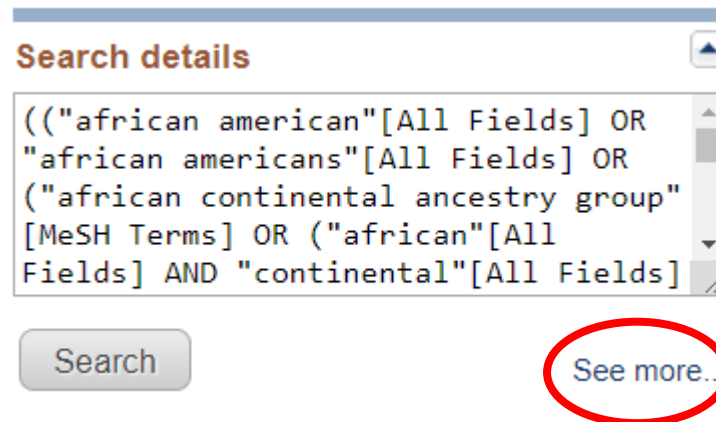
METHODS: Selected POC technologies were embedded at 3 primary health clinics in South Africa. Confirmed HIV-positive participants were randomized to either SOC or POC: SOC participants were venesected and specimens referred to the laboratory with patient follow-up as per algorithm (~3 visits); POC participants had phlebotomy and POCT immediately on-site using Pima CD4 to assess ART eligibility followed by hematology, chemistry, and tuberculosis screening with the goal of receiving same-day adherence counseling and treatment initiation. Participant outcomes measured at recruitment 6 and 12 months after initiation.

RESULTS: Four hundred thirty-two of 717 treatment eligible participants enrolled between May 2012 and September 2013: 198 (56.7%) SOC; 234 (63.6%) POC. Mean age was 37.4 years; 60.5% were female. Significantly more participants were initiated using POC [adjusted prevalence ratio (aPR) 0.83; 95% confidence interval (CI): 0.74 to 0.93; $P < 0.0001$], the median time to initiation was 1 day for POC and 26.5 days for SOC. The proportion of patients in care and on ART was similar for both arms at 6 months (47 vs. 50%) (aPR 0.96; 95% CI: 0.79 to 1.16) and 12 months (32 vs. 32%) (aPR 1.05; 95% CI: 0.80 to 1.38), with similar mortality rates. Loss to follow-up at 12 months was higher for POC (36% vs. 51%) (aPR 0.82; 95% CI: 0.65 to 1.04).

CONCLUSIONS: Adoption of POCT accelerated ART initiation but once on treatment, there was unexpectedly higher loss to follow-up on POC and no improvement in outcomes at 12 months over SOC.

Power searching in PubMed

- ◆ When you don't specify a field to search, PubMed does Automatic Term Mapping
- ◆ You can see this on the search results page (unless the results are sorted by Best Match)



Power searching in PubMed

- ❖ If you are getting weird results, it may be because PubMed is mapping your keywords to a MeSH term
- ❖ In this case, notice it mapped to “African Continental Ancestry Group”

Translations:

black	"african continental ancestry group"[MeSH Terms] OR ("african"[All Fields] AND "continental"[All Fields] AND "ancestry"[All Fields] AND "group"[All Fields]) OR "african continental ancestry group"[All Fields] OR "black"[All Fields] OR "african americans"[MeSH Terms] OR ("african"[All Fields] AND "americans"[All Fields]) OR "african americans"[All Fields]
art	"art"[MeSH Terms] OR "art"[All Fields]
intervention	"methods"[MeSH Terms] OR "methods"[All Fields] OR "intervention"[All Fields]

MeSH

- ◆ MeSH is Medical Subject Headings, a thesaurus and taxonomy used to index MEDLINE records
 - ◆ PubMed has all of MEDLINE in it and some extra records as well, so not everything in PubMed has MeSH terms assigned
- ◆ Looks like this on a PubMed record
- ◆ Words after a forward slash / are subheadings
- ◆ Terms with an asterisk * are Major Topic
 - ◆ More on those soon!

Publication types, MeSH terms, Substance

Publication types

Review

Systematic Review

MeSH terms

African Americans/psychology*

Anti-HIV Agents/administration & dosage

Anti-HIV Agents/therapeutic use*

Antiretroviral Therapy, Highly Active

Attitude to Health

Culture

HIV Infections/drug therapy*

HIV Infections/ethnology.

HIV Infections/psychology.

Humans

Medication Adherence/ethnology*

Medication Adherence/psychology.

Racism

Substance

Anti-HIV Agents

MeSH

◆ To look up a MeSH term, use the MeSH database

NCBI Resources ☒ How To ☒ bethanyamyers My NCBI Sign Out

PubMed.gov Search

US National Library of Medicine
National Institutes of Health Advanced Help



PubMed

PubMed comprises more than 29 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.

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[Topic-Specific Queries](#)

More Resources

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[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities \(API\)](#)

[LinkOut](#)

MeSH

Full ▾

African Continental Ancestry Group

Individuals whose ancestral origins are in the continent of Africa.

Year introduced: 2004

PubMed search builder options

[Subheadings:](#)

- ☐ analysis
- ☐ blood
- ☐ classification
- ☐ diagnosis
- ☐ education
- ☐ epidemiology

- ☐ ethnology
- ☐ etiology
- ☐ genetics
- ☐ history
- ☐ legislation and jurisprudence
- ☐ metabolism

- ☐ mortality
- ☐ organization and administration
- ☐ physiology
- ☐ psychology
- ☐ statistics and numerical data

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): M01.686.508.100

MeSH Unique ID: D044383

Entry Terms:

- Negroid Race
- Negroid Races
- Race, Negroid
- Races, Negroid
- Blacks
- Negroes
- Negro

[All MeSH Categories](#)

[Persons Category](#)

[Persons](#)

[Population Groups](#)

[Continental Population Groups](#)

[African Continental Ancestry Group](#)

[African Americans](#)

MeSH heading and
definition

Check these subheadings
to limit to only certain
aspects of these topics

Check the taxonomic tree to
make sure you're in the right
place: can go broader or
narrower

MeSH

Full ▼

African Americans

Persons living in the United States having origins in any of the black groups of Africa.
Year introduced: 1976

PubMed search builder options

[Subheadings:](#)

- | | | |
|---|--|--|
| <input type="checkbox"/> classification | <input type="checkbox"/> etiology | <input type="checkbox"/> organization and administration |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> genetics | <input type="checkbox"/> physiology |
| <input type="checkbox"/> education | <input type="checkbox"/> history | <input type="checkbox"/> psychology |
| <input type="checkbox"/> epidemiology | <input type="checkbox"/> legislation and jurisprudence | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> ethnology | | |

Send to: ▼

PubMed Search Builder

"African Americans"[Mesh]

Add to search builder

AND ▼

Search PubMed

Click Add
to search
builder if
you want
to search
PubMed
with this
term

YouTube Tutorial

Related information

[PubMed](#)

[PubMed - Major Topic](#)

MeSH

- ❖ The Automatic Term Mapping also mapped our original search to the MeSH term “Art” which is not helpful

NCBI Resources ▾ How To ▾

MeSH MeSH ▾ art

Create alert Limits Advanced

Summary ▾ 20 per page ▾

Search results

Items: 1 to 20 of 24

<< First < Prev Page

- ☐ [Art](#)
 1. Processes and results of aesthetic expression.
- ☐ [Sensory Art Therapies](#)
 2. Therapies using arts or directed at the senses.
Year introduced: 2002
- ☐ [Art Therapy](#)
 3. The use of **art** as an adjunctive therapy in the treatment of neurological, mental, or behavioral disorders.
Year introduced: 1974

MeSH

❖ But there may be a more relevant term for us

MeSH	MeSH ▼	antiretroviral
		Create alert Limits Advanced

Summary ▼

Send

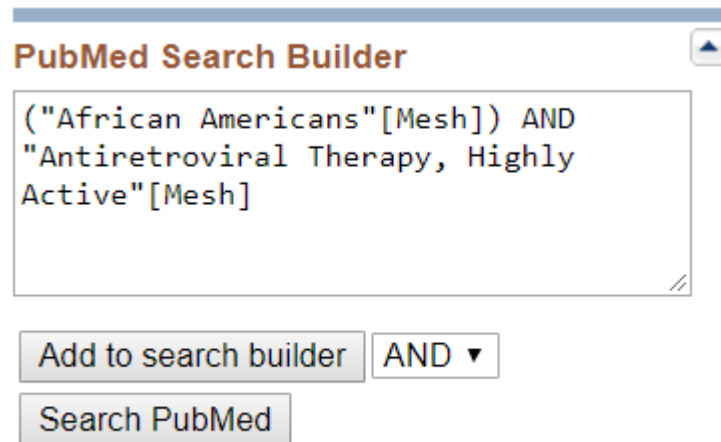
Search results

Items: 3

- ☐ [Anti-Retroviral Agents](#)
 1. Agents used to treat RETROVIRIDAE INFECTIONS.
Year introduced: 2004
- ☐ [Anti-Retroviral Agents \[Pharmacological Action\]](#)
 - 2.
- ☐ [Antiretroviral Therapy, Highly Active](#)
 3. Drug regimens, for patients with HIV INFECTIONS, that aggressively suppress HIV replication. The regimens usually involve administration of three or more different drugs including a protease inhibitor.
Year introduced: 2001

MeSH

- ◆ We can add this to the builder along with the African American term
- ◆ Then we can click Search PubMed to see the results in PubMed



PubMed Search Builder

("African Americans"[Mesh]) AND
"Antiretroviral Therapy, Highly
Active"[Mesh]

Add to search builder AND ▼


Search PubMed

MeSH

- ◆ If you click on any result in PubMed and scroll below the abstract, you can click on the + to open the section with MeSH terms and confirm that both “African Americans” and “Antiretroviral Therapy, Highly Active” appear there

The impact of African Americans' beliefs about HIV medical care on treatment adherence: a systematic review and recommendations for interventions.

Gaston GB¹, Alleyne-Green B.

 Author information

Abstract

Disparities in access to and retention of regular HIV medical treatment persist among African Americans living with HIV. Many scholars believe that the mistrust of health care held by many African Americans stems from a legacy of abuse, from medical experimentation on slaves to the unethical practices with patients in the Tuskegee Syphilis study. We performed a systematic appraisal of the literature, using several key terms, in order to understand how attitudes about HIV-related health care influence African Americans' engagement in care. We examined peer-reviewed studies published during the period January 2001 through May 2012. An initial search generated 326 studies. Sixteen descriptive studies met our inclusion criteria. Experiences of racism, conspiracy beliefs and the quality of provider relationships appeared to impact engagement. Providers should openly investigate personal beliefs that adversely affect their treatment decisions, listen to patient narratives, and share treatment decisions in order to create a transparent environment.

PMID: 23010941 DOI: [10.1007/s10461-012-0323-x](https://doi.org/10.1007/s10461-012-0323-x)

[Indexed for MEDLINE]



[Publication types](#), [MeSH terms](#), [Substance](#)



MeSH

- ◆ Notice they do both appear on this record
- ◆ Also notice how some of these MeSH terms are marked with an asterisk *
- ◆ Those are the Major Topics of the article

Publication types, MeSH terms, Substance

Publication types

Review

Systematic Review

MeSH terms

African Americans/psychology*

Anti-HIV Agents/administration & dosage

Anti-HIV Agents/therapeutic use*

Antiretroviral Therapy, Highly Active

Attitude to Health

Culture

HIV Infections/drug therapy*

HIV Infections/ethnology.

HIV Infections/psychology.

Humans

Medication Adherence/ethnology*

Medication Adherence/psychology.

Racism

Substance

Anti-HIV Agents

MeSH

- ❖ Out of 13 MeSH terms in this example, only 4 are Major
- ❖ You search only for Major Topics if you want your results to be more focused and relevant
- ❖ Remember that you will get fewer results by searching for a Major MeSH term

Publication types, MeSH terms, Substance

Publication types

Review

Systematic Review

MeSH terms

African Americans/psychology*

Anti-HIV Agents/administration & dosage

Anti-HIV Agents/therapeutic use*

Antiretroviral Therapy, Highly Active

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Culture

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HIV Infections/ethnology.

HIV Infections/psychology.

Humans

Medication Adherence/ethnology*

Medication Adherence/psychology.

Racism

Substance

Anti-HIV Agents

MeSH

- ◆ To search for a MeSH term as a Major Topic, there's a checkbox on the MeSH record

African Continental Ancestry Group

Individuals whose ancestral origins are in the continent of Africa.

Year introduced: 2004

PubMed search builder options

Subheadings:

- ☐ analysis
- ☐ blood
- ☐ classification
- ☐ diagnosis
- ☐ education
- ☐ epidemiology

- ☐ ethnology
- ☐ etiology
- ☐ genetics
- ☐ history
- ☐ legislation and jurisprudence
- ☐ metabolism

- ☐ mortality
- ☐ organization and administration
- ☐ physiology
- ☐ psychology
- ☐ statistics and numerical data

☐ Restrict to MeSH Major Topic.

☐ Do not include MeSH terms found below this term in the MeSH hierarchy.

MeSH

- ◆ Remember that all your PubMed searches are temporarily saved in the Advanced search screen, so you can combine MeSH terms with your other searches

Builder

	All Fields ▼	((art OR "antiretroviral treatment")) AND adherence
OR ▼	All Fields ▼	"Antiretroviral Therapy, Highly Active"[Mesh] AND adherence
AND ▼	All Fields ▼	

MeSH

- ◆ Why use MeSH terms at all?
 - ◆ To be quick
 - ◆ Get to the most relevant information by using a subheading with Major Topic
 - ◆ To be thorough
 - ◆ PubMed has many short, vague, or missing abstracts. MeSH indexing gives another source of searchable information about the content besides the publisher-provided title and abstract

Questions?

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- ◆ x42030

Introducing Embase

- ◆ Large database of biomedical literature similar to PubMed
- ◆ Embase vs. PubMed/MEDLINE
 - ◆ Embase claims to have 2700+ journals not indexed in MEDLINE
 - ◆ Stronger coverage outside North America
 - ◆ 1.75 million conference abstracts from 5500+ conferences
- ◆ <http://www.embase.com>
 - ◆ Need proxy or VPN to access from off-campus

Introducing Embase

◆ The default search screen is called “Quick search”

The first Emtree release in 2019 is now available! [See what's new.](#)

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[Quick](#) [PICO](#) [PV Wizard](#) [Advanced](#) [Drug](#) [Disease](#) [Device](#) [Article](#) [Authors](#)

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Link: [Embase survey](#)
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Quick search ▼ Search for... e.g. 'heart attack' AND stress

AND ▼ Journal name ▼ e.g. american heart

AND ▼ Author name ▼ e.g. watson j

AND ▼ Author's first name ▼ e.g. Mary Jane

+ Add search field

Show 0 results >

Limit to:

☐ Publication years (including): 2019 ▼ to 2019 ▼

☐ Records added to Embase (including end date): 1-1-2016 to 31-12-2016 [?](#)

Evidence Based Medicine

☐ Cochrane Review ☐ Controlled Clinical Trial

☐ Systematic Review ☐ Randomized Controlled Trial

☐ Meta Analysis

Introducing Embase

- ❖ As you start typing a search query, Embase will prompt you to use a controlled vocabulary term (more on that soon)

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Quick Search

Quick PICO PV Wizard Advanced Drug Disease Device Article Authors

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Quick search heart attad

heart attack use: heart infarction 375,607

Journal name e.g. american heart

Author name e.g. watson j

Author's first name e.g. Mary Jane

+ Add search field Reset form

Limit to:

☐ Publication years (including): 2019 to 2019

☐ Records added to Embase (including end date): 1-1-2016 to 31-12-2016

Evidence Based Medicine

☐ Cochrane Review ☐ Controlled Clinical Trial

☐ Systematic Review ☐ Randomized Controlled Trial

☐ Meta Analysis

Introducing Embase

- ❖ As you start typing a search query, Embase will prompt you to use a controlled vocabulary term (more on that soon)
- ❖ It will also show you how many results you'll get for that query

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[Search tips](#)

Quick search	heart attac
AND	Journal name
AND	Author name
AND	Author's first name

[+](#) Add search field [↺](#) Reset form

heart attack use heart infarction 375,607

Limit to:

☐ Publication years (including): 2019 to 2019

☐ Records added to Embase (including end date): 1-1-2016 to 31-12-2016

Evidence Based Medicine

☐ Cochrane Review ☐ Controlled Clinical Trial
☐ Systematic Review ☐ Randomized Controlled Trial
☐ Meta Analysis

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Results

'heart attack'/exp OR 'heart attack' OR (('heart'/exp OR heart) AND attack)

[Search >](#)

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Sources



Drugs



Diseases



Devices



Floating Subheadings



Age



Gender



Study types



Publication types



Journal titles



Publication years



Authors



Conference Abstracts



☐ **History**

[Save](#)

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[Export](#)

[Email](#)

[Combine >](#)

using



And



Or

☐ #1

'heart attack'/exp OR 'heart attack' OR (('heart'/exp OR heart) AND attack)

394,072 results for search #1

[Set email alert](#)



[Set RSS feed](#)



[Search details](#)

[new](#)



[Index miner](#)

☐ **Results**

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[Email](#)

[Order](#)

[Add to Clipboard](#)

Select number of items

Selected: 0 [\(clear\)](#)

☐ 1

Culprit lesion location and outcome in patients with cardiogenic shock complicating myocardi

Fürnau G., Fengler K., Desch S., Eitel I., De Waha S., Böhm M., Pöß J., Schneider S., Schuler G., Werdan K., Zeymer U., Thiele H., et al. *Wiener Klinische Wochenschrift* 2016 128:3 Supplement 1 (S271-S272)

Embase [Abstract](#) [Index Terms](#) [View Full Text](#)

[UC-eLinks](#)

☐ 2

Culprit vessel versus multivessel intervention for primary percutaneous coronary intervention study of 9,377 patients

Iqbal B., Ilesley C., Kabir T., Smith R., Lane R., Mason M., Archbold A., Crake T., Firoozi S., Kalra S., Knight C., Lim P., Mathew D., et al. *Journal of the American College of Cardiology* 2014 63:12 SUPPL. 1 (A6-)

Embase [Abstract](#) [Index Terms](#) [View Full Text](#)

[UC-eLinks](#)

☐ 3

The physician's role in minimizing prehospital delay in patients at high risk for acute myocardial infarction

Dracup K., Alonzo A.A., Atkins J.M., Bennett N.M., Braslow A., Clark L.T., Eisenberg M., Ferdinand K.C., Frye R., Green L., White S.K. *Annals of Internal Medicine* 1997 126:8 (645-651) Cited by: 146

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Your search

Filters

Your search history, which can be reused and recombined

Introducing Embase

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Embase®

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[Add to clipboard](#)

[Full record](#)

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Link: [Embase survey](#)

Translated Title

Culprit lesion location and outcome in patients with cardiogenic shock complicating myocardial infarction: A substudy of the IABP-SHOCK II-Trial

Wiener Klinische Wochenschrift 2016 128:3 Supplement 1 (S271 - S272)

Translated Abstract

Background: In myocardial infarction without CS the affected coronary vessel has significant influence on final infarct size and patient prognosis. For CS data on this relation are scarce. The objective of this study was to determine the prognostic relevance of the culprit lesion location in patients with cardiogenic shock (CS) complicating acute myocardial infarction. **Methods:** In the Intraaortic Balloon Pump in Cardiogenic Shock II (IABP-SHOCK II) trial patients with CS were randomized to therapy with intraaortic balloon pump or control. Additional CS patients not eligible for the randomized trial were included in a registry. We compared the location of the culprit lesions in these patients with regard to affected coronary vessel (left main [LM], left anterior descending [LAD], left circumflex [LCX] and right coronary artery [RCA]) and location within the vessel (proximal or mid/distal) regarding short- and long-term outcome. **Results:** Of 758 patients the majority had the culprit lesion in the LAD (44 %) compared to RCA (27 %), LCX (19 %) or LM (10 %). Proximal lesions were more frequent than mid/distal culprit lesions (60 vs. 40 %, $p < 0.001$). No differences were observed for mortality with respect to either culprit vessel (logrank-p-value = 0.54) or proximal vs. mid/distal location of the culprit lesion (log-rank-p-value = 0.45). This was also true after multivariable adjustment, independent predictors of outcome were serum lactate, success of revascularization, age, serum creatinine, prior stroke, known peripheral artery disease and left bundle branch block at admission. **Conclusions:** For patients with CS complicating myocardial infarction, the culprit lesion localization seems to be unrelated with mortality.

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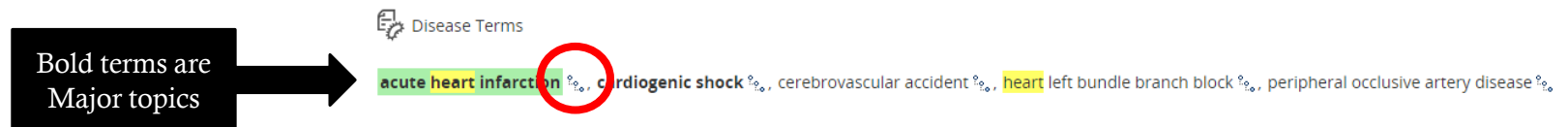
 Disease Terms

acute heart infarction, cardiogenic shock, cerebrovascular accident, heart left bundle branch block, peripheral occlusive artery disease

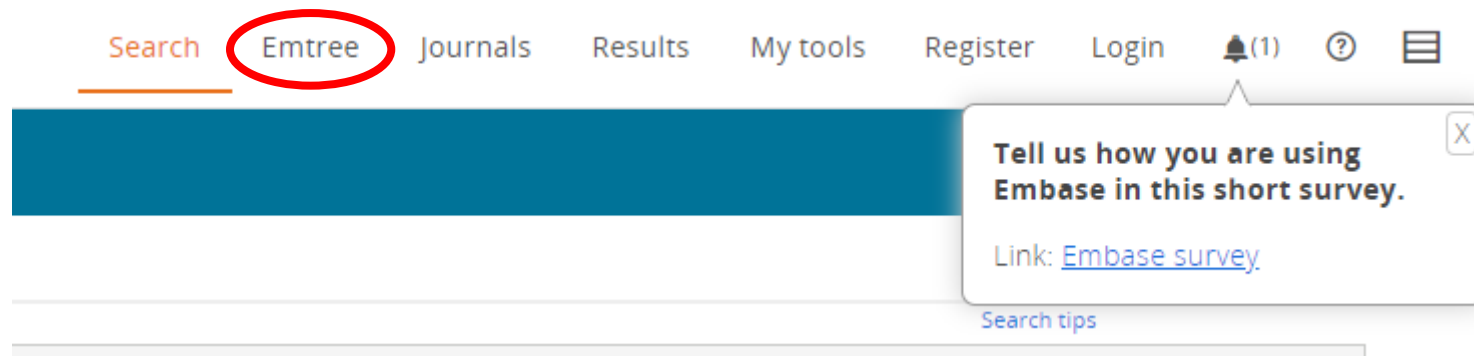
Emtree
terms

Emtree

- ◆ Emtree is Embase's version of MeSH
- ◆ Standardized subject headings
- ◆ From an Embase record you can click the tiny icon to go to that term's Emtree record



- ◆ Or click Emtree in the top right corner of the screen



Emtree

- ◆ Index term in taxonomic tree
 - ◆ Broader
 - ◆ Narrower
- ◆ Explode to include all narrower terms

Query Builder ▼
Build a multi-term search query

Find Term Browse by Facet

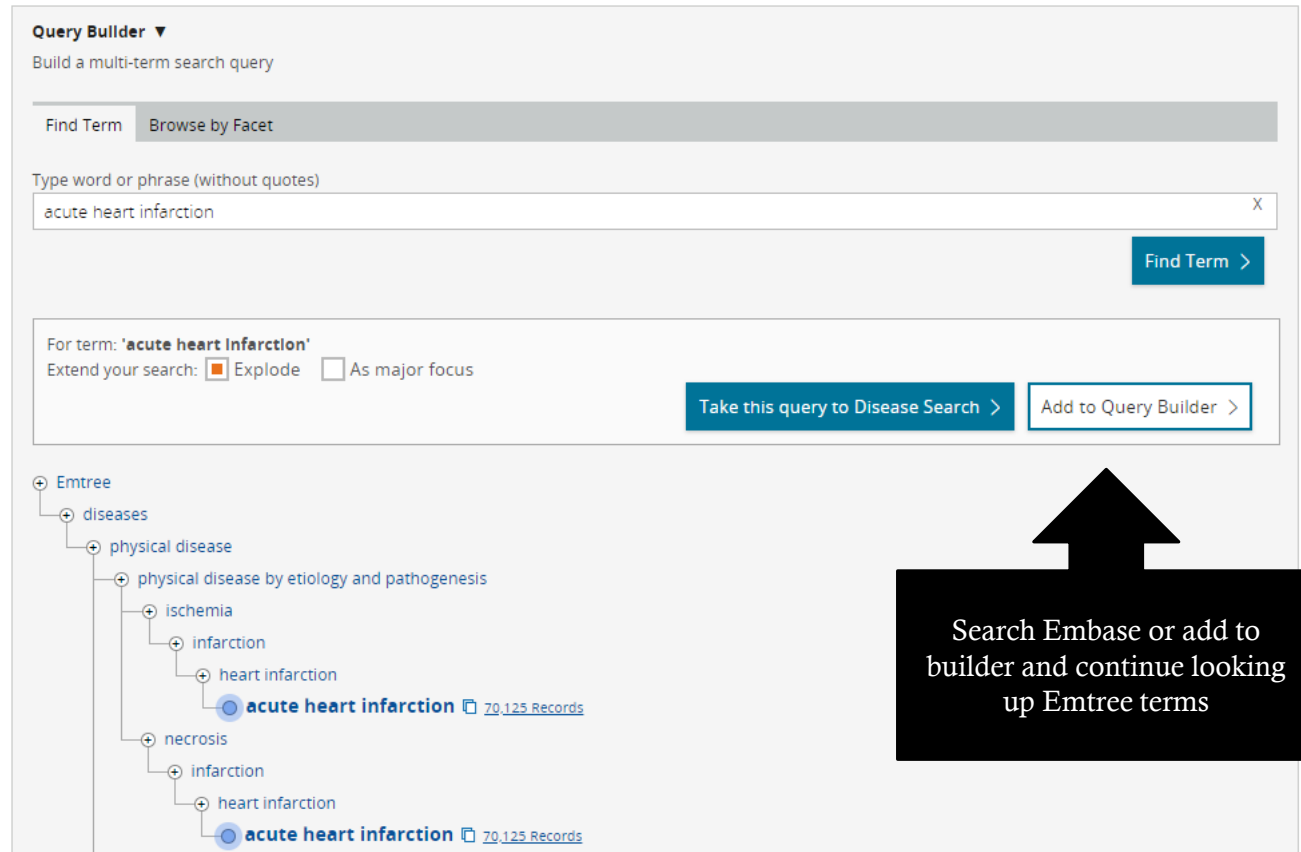
Type word or phrase (without quotes)
acute heart infarction X

Find Term >

For term: '**acute heart infarction**'
Extend your search: ☒ Explode ☐ As major focus

Take this query to Disease Search > Add to Query Builder >

± Emtree
± diseases
± physical disease
± physical disease by etiology and pathogenesis
± ischemia
± infarction
± heart infarction
± **acute heart infarction** 70,125 Records
± necrosis
± infarction
± heart infarction
± **acute heart infarction** 70,125 Records



The screenshot displays the Emtree Query Builder interface. At the top, there's a 'Query Builder' section with a dropdown arrow and the instruction 'Build a multi-term search query'. Below this are two tabs: 'Find Term' (selected) and 'Browse by Facet'. A search input field contains the text 'acute heart infarction' with a clear 'X' button. To the right of the input is a 'Find Term >' button. Below the search bar, a section for the selected term shows 'For term: 'acute heart infarction'' and options to 'Extend your search' with checkboxes for 'Explode' (checked) and 'As major focus'. To the right of these options are two buttons: 'Take this query to Disease Search >' and 'Add to Query Builder >'. At the bottom, a hierarchical tree structure is shown, starting from 'Emtree' and branching down through 'diseases', 'physical disease', 'physical disease by etiology and pathogenesis', 'ischemia', 'infarction', 'heart infarction', and finally to 'acute heart infarction', which is highlighted with a blue circle and shows '70,125 Records'. The tree also branches to 'necrosis' and then to 'infarction' and 'heart infarction', with 'acute heart infarction' also highlighted at this level with '70,125 Records'.

Search Embase or add to builder and continue looking up Emtree terms

Embase's special search screens

- ◆ Embase has a number of search interfaces that are tailored towards particular types of searches

Embase®

Quick Search

Quick

PICO

PV Wizard

Advanced

Drug

Disease

Device

Article

Authors

Embase's special search screens

- ❖ PICO search prompts you to format your question as PICO
- ❖ Search or browse Emtree terms, or start typing and accept the pop up suggestions

Find best term

Emtree

anatomical concepts

biological functions

biomedical disciplines, science and art

chemical, physical and mathematical phenomena

chemicals and drugs

diseases

geographic names

groups by age and sex

health care concepts

named groups of persons

organisms

procedures, parameters and devices

society and environment

types of article or study

Population

e.g. diabetes

Intervention

e.g. insulin

Comparison

e.g. placebo

Outcome

e.g. risk

Study design (or miscellaneous)

e.g. randomized controlled trial

Embase's special search screens

◆ PV Wizard for pharmacovigilance

PV Wizard - Drug Name

Select Language ▼

Quick

PICO

PV Wizard

Advanced

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Disease

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[EMA's MLM searches >](#)

Drug name

Alternative drug names

Adverse drug reactions

Special situations

Human limit

●

●

●

●

●

Drug name

e.g. Paracetamol

Clear field

Subheadings

- | | |
|---|---|
| <input checked="" type="checkbox"/> Adverse drug reaction | <input type="checkbox"/> Drug combination |
| <input checked="" type="checkbox"/> Drug toxicity | <input type="checkbox"/> Drug comparison |
| <input checked="" type="checkbox"/> Drug interaction | <input type="checkbox"/> Drug therapy |

Embase's special search screens

- ◆ Advanced
 - ◆ More control over fields
 - ◆ Options for Emtree
 - ◆ Search limits

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☒ Map to preferred term in Emtree ☐ Limit to terms indexed in article as 'major focus'

☒ Search also as free text in all fields

☒ Explode using narrower Emtree terms

☒ Search as broadly as possible

Embase's special search screens

◆ Drug, Disease, Device

◆ Highlights fields and Emtree subheadings relevant to these topics

[Search >](#) [Mapping ^](#) [Date v](#) [Sources v](#) [Drug fields v](#) [Drug subheadings v](#) [Routes v](#) [Quick limits v](#) [EBM v](#) [Pub. types v](#) [Languages v](#) [Search tips v](#)

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☒ Map to preferred term in Emtree ☐ Limit to terms indexed in article as 'major focus'

☐ Search also as free text in all fields

☒ Explode using narrower Emtree terms

☐ Search as broadly as possible

Embase's special search screens

◆ Article

◆ Citation matching

Article title: <input type="text"/>	ISSN: <input type="text"/>
Author Name: e.g. Smith J.A. <input type="text"/>	CODEN: This is only available for titles added before 2005 <input type="text"/>
Journal Title: <input checked="" type="checkbox"/> Exact <input type="text"/>	Volume: <input type="text"/>
Abbreviated Journal Title: <input checked="" type="checkbox"/> Exact <input type="text"/>	Issue: <input type="text"/>
<input type="checkbox"/> Publication Years from: 2019 ▼ to 2019 ▼	First page: <input type="text"/>
<input type="button" value="Search >"/>	

Embase's special search screens

◆ Author

◆ Disambiguate authors & their affiliations

Author last name	Author first name
<input type="text" value="e.g. Watson"/>	<input type="text" value="e.g. John"/>
Affiliation	First name initials
<input type="text" value="e.g. University of Toronto"/>	<input type="text" value="e.g. H."/>
ORCID	
<input type="text" value="e.g. 1111-2222-3333-444x"/>	
<input type="button" value="Find author >"/>	

Proximity searching

◆ NEAR/X and NEXT/X

<input type="checkbox"/> History	Save Delete Print view Export Email	Combine >	using <input checked="" type="radio"/> And <input type="radio"/> Or	^ Collapse
<input type="checkbox"/> #2	(parent* OR family OR families) NEAR/5 (education* OR train*) NEAR/5 nutrition NEAR/5 (intervention OR program OR workshop OR class)			80
<input type="checkbox"/> #1	(parent* OR 'family'/exp OR family OR 'families'/exp OR families) AND (education* OR train*) AND ('nutrition'/exp OR nutrition) AND ('intervention'/exp OR intervention OR 'program'/exp OR program OR 'workshop'/exp OR workshop OR class)			13,182

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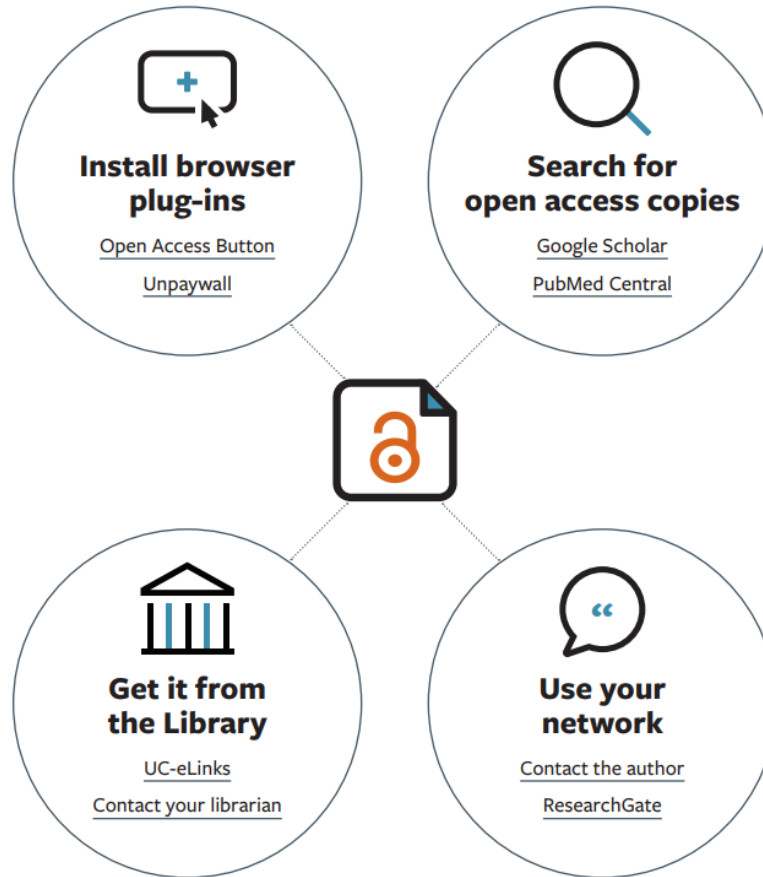
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Author Contains

Author	Year	Title
Abacioglu, U.; Ca...	2010	Gamma knife radiosurgery in non small cell lung cancer patients with brain metastases:
Abacioglu, U.; Oz...	2014	VMAT radiosurgery with flattening filter free photon beams for benign brain lesions in
Abacioglu, U.; Oz...	2014	Critical appraisal of RapidArc radiosurgery with flattening filter free photon beams for l
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Abacioglu, U.; Oz...	2014	Critical appraisal of RapidArc radiosurgery with flattening filter free photon beams for l
Abboud, M.; Had...	2009	Extraneural metastases from cranial meningioma: a case report
Abdelaziz, O. S.	2000	Radiosurgery in neurosurgical practice - IV: Stereotactic radiosurgery for metastatic br
Abd-El-Barr, M. ...	2015	No free lunch: Secondary neoplasms after stereotactic radiation
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Abe, M.; Tabuchi,...	2005	[Recent management of metastatic brain tumors]
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Abe, T.; Kondo, A...	2004	[Adenoid cystic carcinoma with striking intracranial extension: a case report]
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Abisheva, Z.; Ada...	2018	The effect of MLC leaf width in single isocenter multi-target radiosurgery with VMAT
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Abd-El-Barr, M. M.
Chiocca, E. A.

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2015

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No Free Lunch: Secondary Neoplasms After Stereotactic Radiation

Journal

World Neurosurgery

Volume

83

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Author Guo, Yongxian

Author Gong, Yanjun

Author Qi, Lubin

Author Gao, Yan'an

Author Yu, Li

Abstract Hydrogen sulfide (H2S) has been verified as an
important biological mediator in human physiological
activities, but its rapid and accurate detection is
remaining a challenge. Based on our early work,
Eu-containing polyoxometalate/ionic liquid-type gemi
surfactant hybrid nanoparticles fabricated by
EuW10O36·32H2O (Eu-POM) and 1,2-bis(3-
hexadecylimidazolium-1-yl) ethane bromide ([C16-2-
C16im]Br2) via ionic self-assembly (ISA) strategy, we
modified the hybrids with copper (II) ion and used ther
as a novel turn-off supramolecular fluorescence probe
for H2S immediate response. Although copper (II) ions
can cause decrease of the fluorescence intensity, the
probe with moderate amount of copper (II) still has a
high performance in emission property. The copper (II)
ion-modified supramolecular sensor (CSS) shows dual
signals in the fluorescence intensity and absorbance fo
H2S detection, and the detection limit is about 1.25 μM.
Furthermore, CSS displays high selectivity for H2S in th
presence of other anions and species (e.g. Cl(-), Br(-),
I(-), SO4(2-), SO3(2-), S2O3(2-), AC(-), H2O2, HCO3(-),
l-cysteine, homocysteine and l-glutathione), and also

Questions?

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