TRIP DATABASE
WWW.TRIPDATABASE.COM

Jon Brassey, March 2013

Background

- Free, clinical ‘evidence-based’ search engine
- Based in the UK – Bristol and Newport
- Trip first launched in 1997
- Created due to clinical Q&A and still closely linked.
- Over 10,000 clinical Q&As answered by me and my teams.

Trip

Content

- EB synopses e.g. Bandolier, JCs, CATs
- Systematic Reviews e.g. Cochrane, AHRQ
- Guidelines
- Q&A
- Primary research
- Other e.g. eTextbooks.

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Technical

- Lucene/solr
- Content added manually and automatically
- Algorithm designed to return the best available evidence based on 3 main factors:
  - Year of publication
  - Publication score
  - Text score

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Background

Usefulness medical information = (relevance x validity) / work

(Slawson & Shaughnessy, 1999)

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Relevance and Validity

- HIRU's EvidenceUpdates
- Critical appraisal >50,000 articles from 110 'premier' clinical journals
- Those that pass the critical appraisal stage are passed to a network of clinicians to assess for clinical relevance and newsworthiness

Trip

Our aims

“Helping clinicians find answers to their questions using the best available evidence”

“Find evidence fast”

Trip

Stats

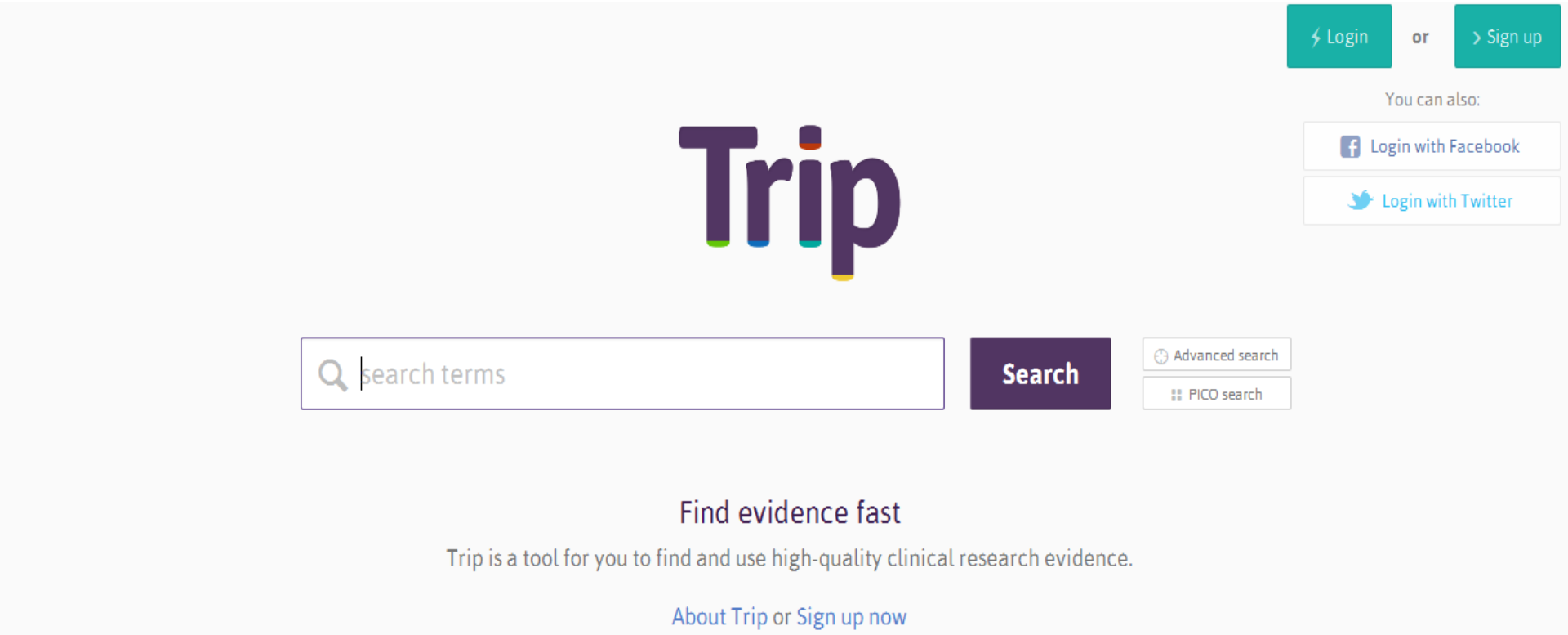
- Searched approximately 100 million times
- Clinicians indicate over 70% of searches on Trip (used for patient care) actually helps
- Nearly 50,000 registered users
- Global reach, but USA & UK biggest users (50% of users)

Secrets to our success

- Relationships eg clinicians, librarians
- We listen
- We respond (works well with our own work in Q&A)
- They're happy
- = Drive traffic

Trip

Homepage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Trip

prostate cancer screening

Search

Advanced search

PICO search

How to use Trip

Evidence | Images | Videos | Education | Patient information | News | Associated

2,025 results for "prostate cancer screening", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

Population screening for prostate cancer: an overview of available studies and meta-analysis

DARE. 2012

Share this | Add to BMJ portfolio | CPD/CME | More

Screening for prostate cancer: a review of the evidence for the U.S. Preventive Services Task Force

DARE. 2012

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Screening for prostate cancer

Cochrane Database of Systematic Reviews 2010

Refine 2,025 results by evidence type

- All Secondary Evidence
  - Evidence-based Synopses 52
  - Systematic Reviews 126
  - Guidelines
    - Aus & NZ 26
    - Canada 21
    - UK 44
    - USA 86
    - Other 8
- Clinical Q&A 16
- Key Primary Research 74
- Extended Primary Research 1,247
- eTextbooks 325

Trip

prostate cancer screening

Search

Advanced search

PICO search

How to use Trip

Evidence | Images | Videos | Education | Patient information | News | Associated

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    - UK 44
    - USA 86
    - Other 8
- Clinical Q&A 16
- Key Primary Research 74
- Extended Primary Research 1,247
- eTextbooks 325

search terms

Search

Advanced search

PICO search

PICO Search

PICO is a novel approach of allowing users to conduct a focussed search based on a structured clinical question
Learn more at cebm.net

There are 4 elements and not all are compulsory, but the more you use the more focussed the results. We use a contingency search to reduce information overload, click here for further details.

Population: pregnancy

Intervention: cbt

Comparison: nrt

Outcome: smoking cessation

Search

Trip

(title:pregnancy)(cbt)(nrt)(smoking cessation)

Search

Advanced search

PICO search

How to use T

Evidence | Images | Videos | Education | Patient information | News | Associated

7 results for "(title:pregnancy)(cbt)(nrt)(smoking cessation)", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

Pharmacological interventions for promoting smoking cessation during pregnancy

Cochrane Database of Systematic Reviews 2012

Share this | Add to BMJ portfolio | DOI | CPD/CME | More

Quitting smoking in pregnancy and following childbirth

National Institute for Health and Clinical Excellence - Public Health 2010 PDF

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No thumbnail or rollover available

Smoking Cessation Interventions for Pregnant Women and Mothers of Infants: A Review of the Clinical Effectiveness, Safety, and Guidelines

Canadian Agency for Drugs and Technologies in Health - Rapid Review 2012

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Refine 7 results by evidence type

- All Secondary Evidence
  - Evidence-based Synopses 1
  - Systematic Reviews 2
  - Guidelines
    - Aus & NZ 0
    - Canada 0
    - UK 2
    - USA 0
    - Other 0
- Clinical Q&A 2
- Key Primary Research 0
- Extended Primary Research 0
- eTextbooks 0

Further refinements

Trip

vitamin d

Search

Advanced search

PICO search

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452,584 results for "vitamin d", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

Vitamin D for the treatment of chronic painful conditions in adults

Cochrane Database of Systematic Reviews 2012

Share this | Add to BMJ portfolio | DOI | CPD/CME | More

Vitamin D supplementation for women during pregnancy

Cochrane Database of Systematic Reviews 2012

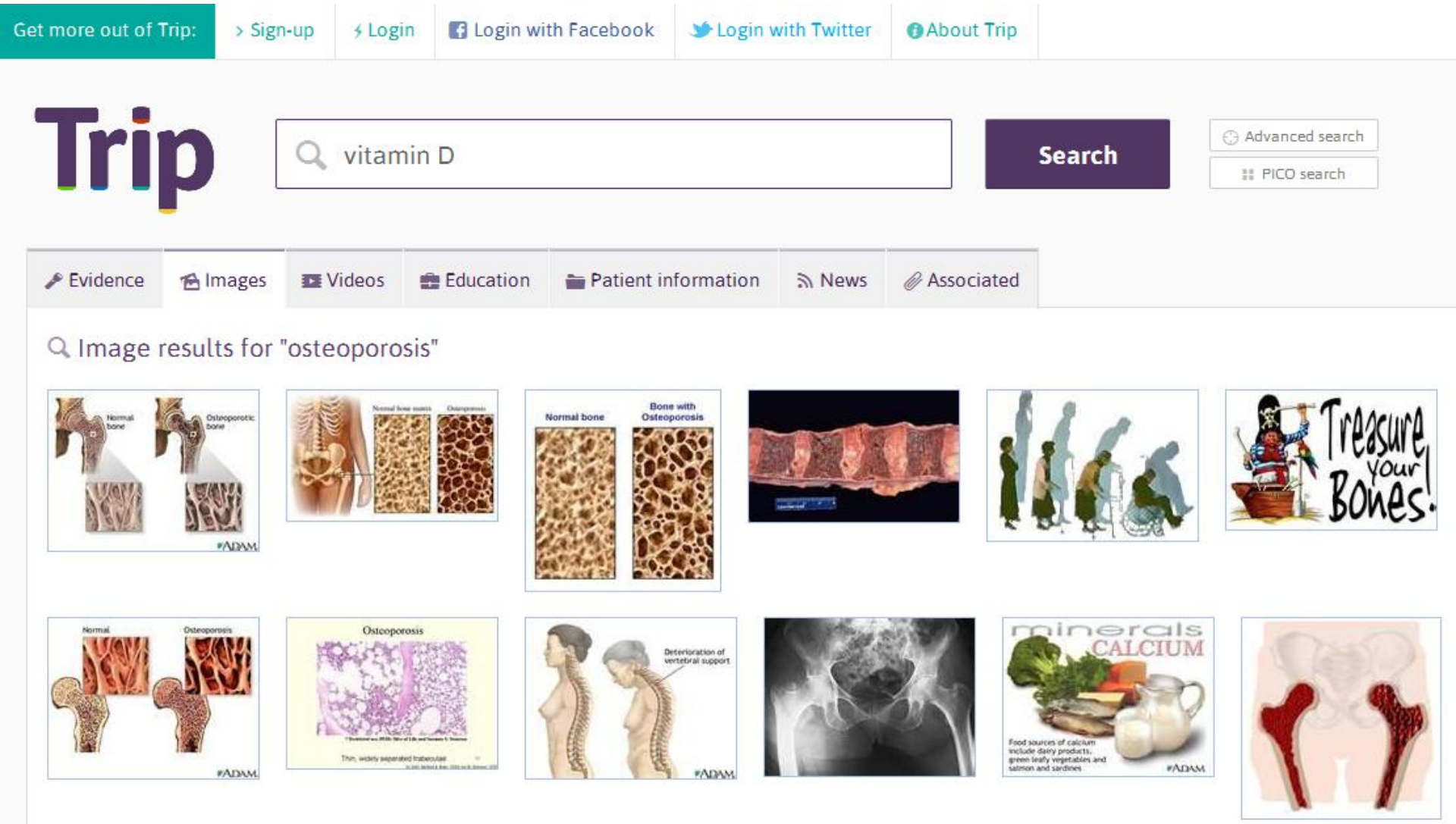
Share this | Add to BMJ portfolio | DOI | CPD/CME | More

Vitamin D supplementation for women during pregnancy

Refine 452,584 results by evidence type

- All Secondary Evidence
  - Evidence-based Synopses 6,567
  - Systematic Reviews 14,403
  - Guidelines
    - Aus & NZ 512
    - Canada 789
    - UK 2,202
    - USA 4,213
    - Other 131
- Clinical Q&A 2,022
- Key Primary Research 15,138
- Extended Primary Research 378,802

Images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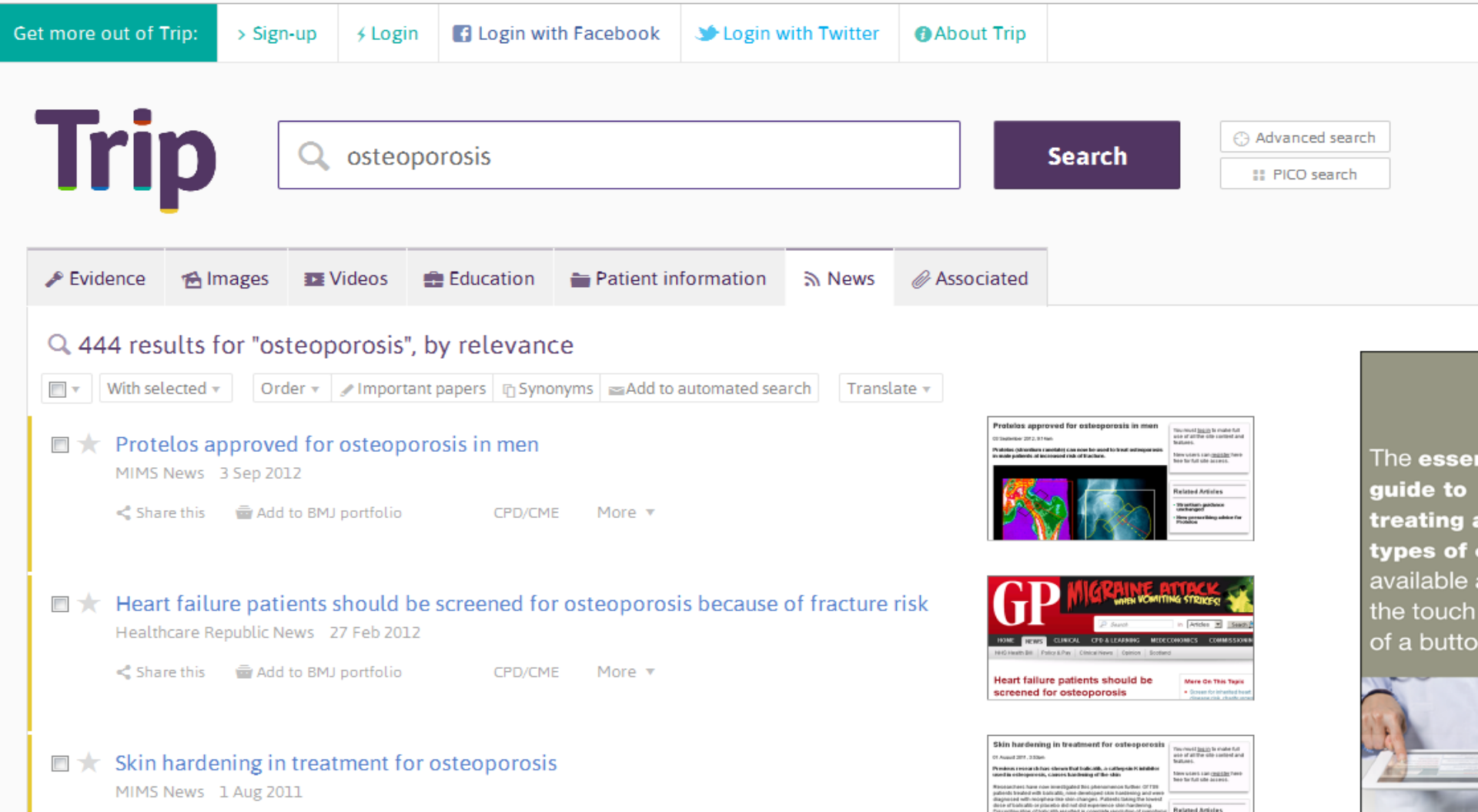
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Associated
444 results for "osteoporosis", by relevance
With selected
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Synonyms
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Translate
Protelos approved for osteoporosis in men
MIMS News 3 Sep 2012
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More
Heart failure patients should be screened for osteoporosis because of fracture risk
Healthcare Republic News 27 Feb 2012
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Skin hardening in treatment for osteoporosis
MIMS News 1 Aug 2011
GP
MIGRAINE ATTACK WHEN VOMITING STRIKES!
Heart failure patients should be screened for osteoporosis
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Trip

osteoporosis bmd dexa

Search

Advanced search

PICO search

How to use Trip

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761 results for "osteoporosis bmd dexa", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

What evidence is there for repeating DEXA scans to monitor effectiveness of treatment of osteoporosis? In patients receiving calcium/vit D + bisphosphonate, what action should be taken when a reduction in BMD is found on repeat DEXA scan? Thanks

TRIP Answers 2011

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Simultaneous screening for osteoporosis at CT colonography: Bone mineral density assessment using MDCT attenuation techniques compared against the DXA reference standard.

Journal of Bone and Mineral Research 2011

Share this | Add to BMJ portfolio | DOI | Full text | CPD/CME | More

The Osteoporosis Self-Assessment Tool versus alternative tests for selecting postmenopausal women for bone mineral density assessment: a comparative systematic review of accuracy

DARE. 2009

Share this | Add to BMJ portfolio | CPD/CME | More

Performance of risk indices for identifying low bone mineral density and osteoporosis in Mexican Mestizo women with rheumatoid arthritis

EvidenceUpdates 2012

Share this | Add to BMJ portfolio | DOI | Full text | CPD/CME | More

Cost effectiveness of ultrasound and bone densitometry for osteoporosis screening in post-menopausal women

NHS Economic Evaluation Database. 2008

Share this | Add to BMJ portfolio | CPD/CME | More

Refine 761 results by evidence type

- All Secondary Evidence
  - Evidence-based Synopses 19
  - Systematic Reviews 71
  - Guidelines
    - Aus & NZ 10
    - Canada 5
    - UK 18
    - USA 62
    - Other 1
- Clinical Q&A 73
- Key Primary Research 26
- Extended Primary Research 397
- eTextbooks 79

Further refinements

- For developing world
- By clinical area
- Previously viewed
- Starred
- Since 2012
- Since 2011
- Since 2010

Trip

osteoporosis bmd dexa

Search

Advanced search

PICO search

How to use Trip

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26 results for "osteoporosis bmd dexa", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

Performance of risk indices for identifying low bone mineral density and osteoporosis in Mexican Mestizo women with rheumatoid arthritis

EvidenceUpdates 2012

Share this | Add to BMJ portfolio | DOI | Full text | CPD/CME | More

Decision rules for selecting women for bone mineral density testing: application in postmenopausal women referred to a bone densitometry unit.

EvidenceUpdates 2007

Share this | Add to BMJ portfolio | Full text | CPD/CME | More

No thumbnail or rollover available

Cost-effectiveness of bone densitometry followed by treatment of osteoporosis in older men.

JAMA 2007

Share this | Add to BMJ portfolio | DOI | Cited 2 | Full text | CPD/CME | More

No thumbnail or rollover available

Effect of 12 months of whole-body vibration therapy on bone density and structure in postmenopausal women: a randomized trial.

Annals of Internal Medicine 2011

Refine 761 results by evidence type

- All Secondary Evidence
  - Evidence-based Synopses 19
  - Systematic Reviews 71
  - Guidelines
    - Aus & NZ 10
    - Canada 5
    - UK 18
    - USA 62
    - Other 1
  - Clinical Q&A 73
  - **Key Primary Research 26**
    - Annals of Internal Medicine 10
    - EvidenceUpdates 8
    - JAMA 4
    - NEJM 2
    - Lancet 2
  - Extended Primary Research 397
  - eTextbooks 79

Further refinements

Trip

shingles

Search

Evidence | Images | Videos | Education | Patient information | News | Associated

1,123 results for "shingles", by relevance

With selected | Order | Important papers | Synonyms | Add to automated search | Translate

Synonyms used:

herpes zoster | herpes zoster infection | herpes-zoster | shingles

The cost-effectiveness of varicella and combined varicella and herpes zoster vaccination programmes in the United Kingdom

NHS Economic Evaluation Database. 2012

Share this | Add to BMJ portfolio | CPD/CME | More

Economic evaluation of a vaccine for the prevention of herpes zoster and post-herpetic neuralgia in older adults in Switzerland

NHS Economic Evaluation Database. 2012

Share this | Add to BMJ portfolio | CPD/CME | More

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malignant hypertension

Search

Advanced s

PICO sea

Your timeline

04/11/2012 you searched for malignant hypertension

Angiogenesis inhibitors for the treatment of ovarian cancer

Antihypertensive drugs and lip cancer in non-Hispanic whites.

Candesartan-based therapy and risk of cancer in patients with systemic hypertension (Heart Institute of Japan Candesartan Randomized Trial for Evaluation in Coronary Artery Disease [HIJ-CREATE] substudy)

Business model

- Limited company
- No coherent business model
- Did try paid access
- Income streams:
  - Content provider
  - Advertising
  - Web-service
  - Ad hoc reviews
  - Specialist websites

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Excelencia clinica

- Working with the Iberoamerican Cochrane Centre (funded by Spanish Ministry of Health)
- Bilingual search
- English and Spanish documents
- Search in either language
- Translation via look-up table

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The future – next upgrade

- RCT database – PubMed & Mendeley
- Full-text – PMC and link resolvers
- LMIC
- Integration of DynaMed
- Case reports
- Low relevancy cut-off

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The future

- Working with academia?
- Making search less stupid
  - Clickstream analysis
- New research
- Answer engine
- Automated semi-systematic reviews

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Making search less stupid

- Awareness
- Pain

- Working with search engine researchers from the University of Glasgow
  - Profile users and learn from their and similar colleagues behaviour.

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Clickstream analysis

- Data visualisation
- Serendipity
- Structure e.g. Cliques, weak links
- User profiles and 'Clinicians Like Me'

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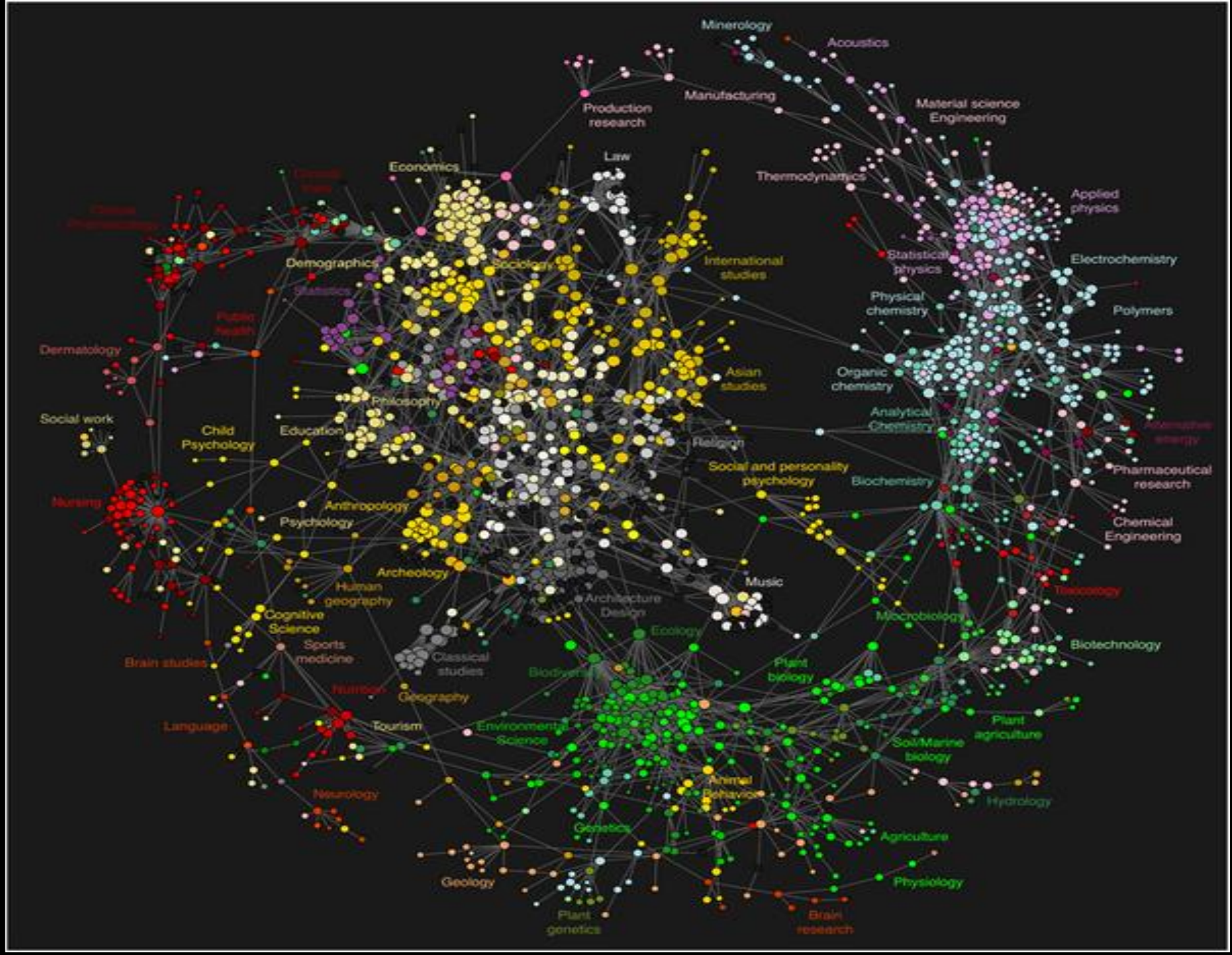
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Production research
Material science Engineering
Economics
Law
Thermodynamics
Applied physics
Demographics
Sociology
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Microbiology
Biotechnology
Brain studies
Classical studies
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Tourism
Geography
Language
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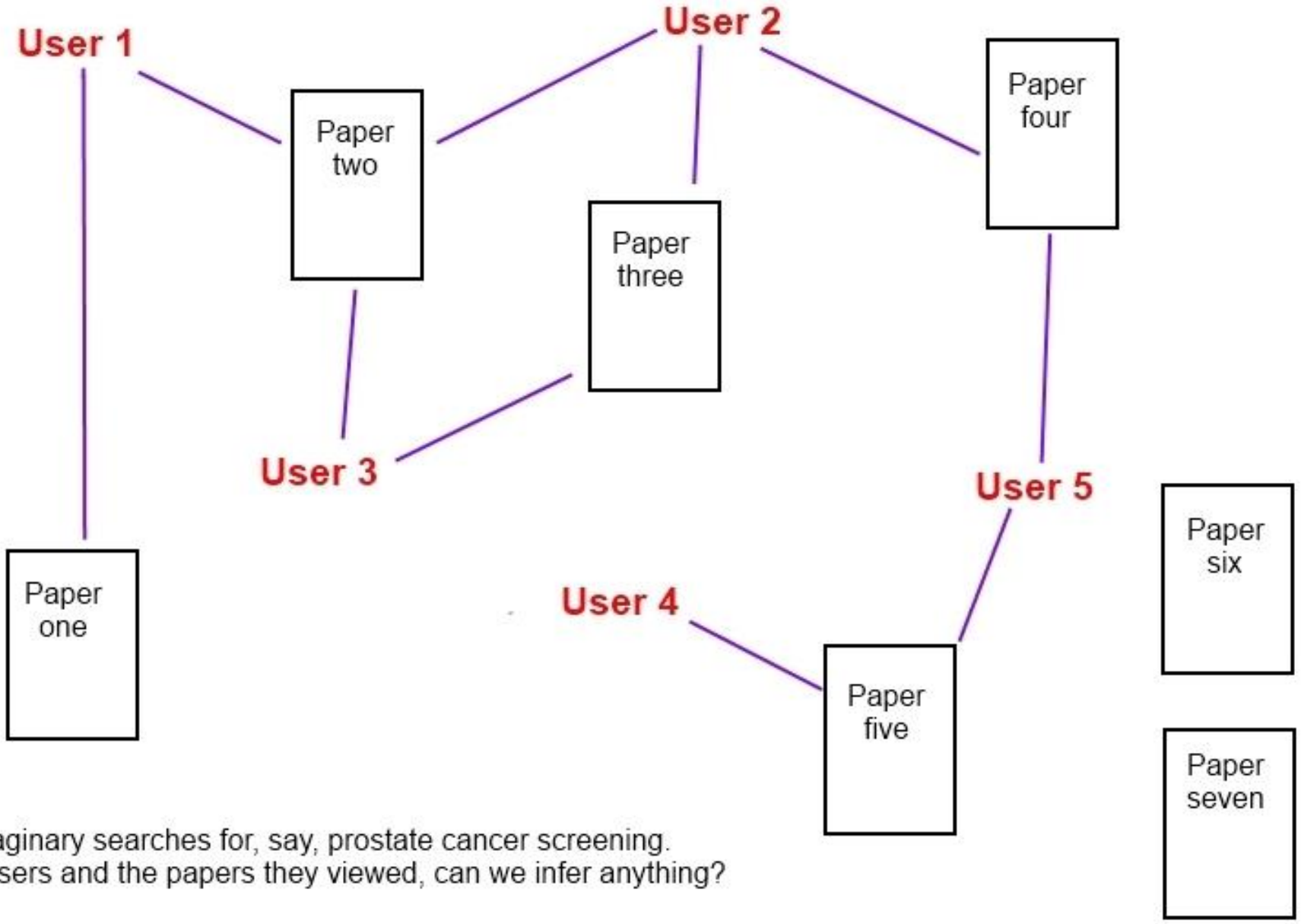
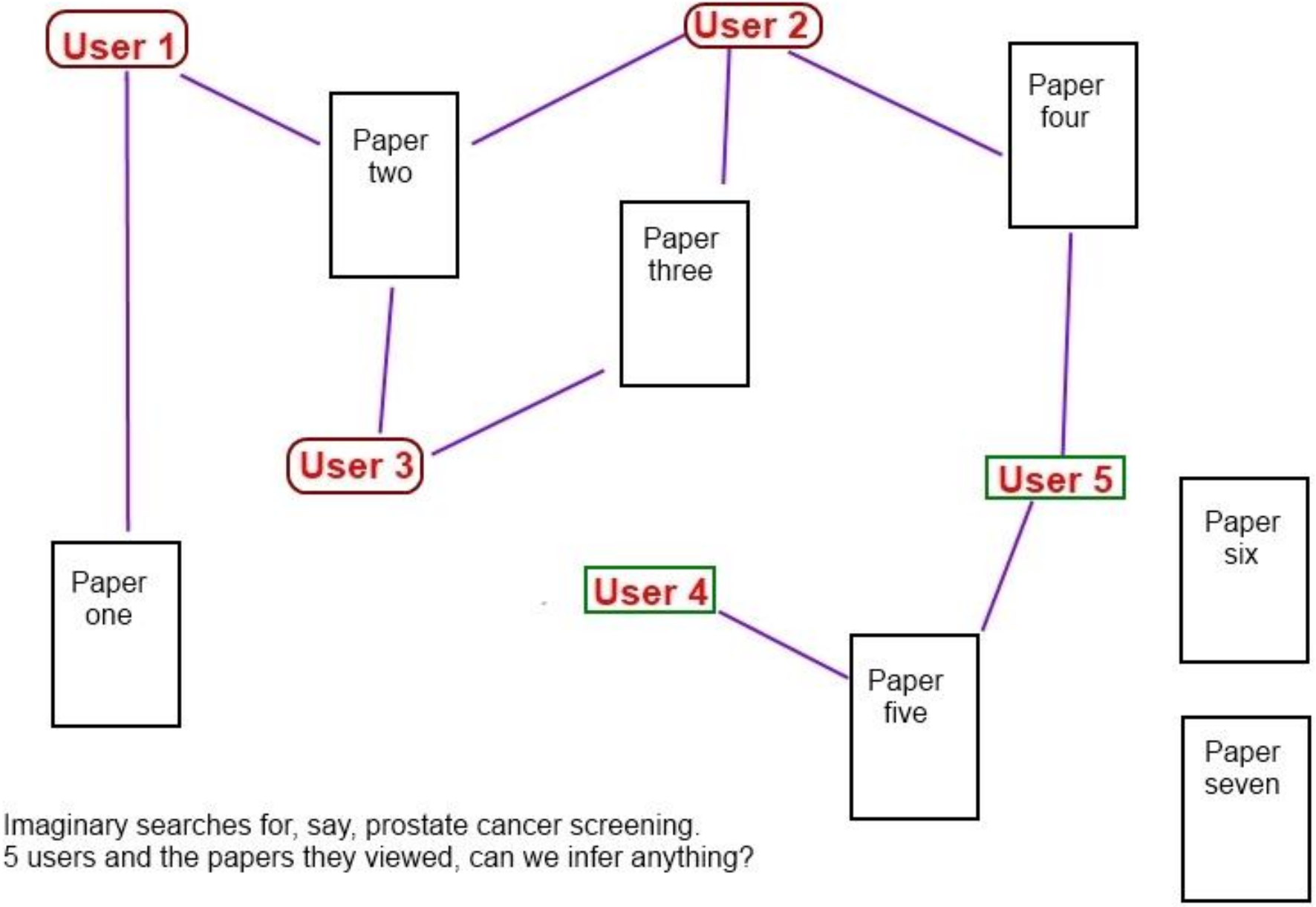
Animal Behavior
Hydrology
Genetics
Agriculture
Geology
Physiology
Plant genetics
Brain research



Imaginary searches for, say, prostate cancer screening.
5 users and the papers they viewed, can we infer anything?



Imaginary searches for, say, prostate cancer screening.
5 users and the papers they viewed, can we infer anything?

New research

- Each month ~500 new secondary research added and around 3-5,000 primary research articles
- Current system very crude
- More sophistication needed, need to learn a users preferences

Answer engine

- “Despite attempts to evolve search into something more human friendly, there's still a big hole there. As useful as Google is, it doesn't answer questions very well” TechCrunch blog
- “I don’t want all these getting me on the way to the answer....search engines should be replaced by answer engines.” Steve Wozniak, co-founder Apple

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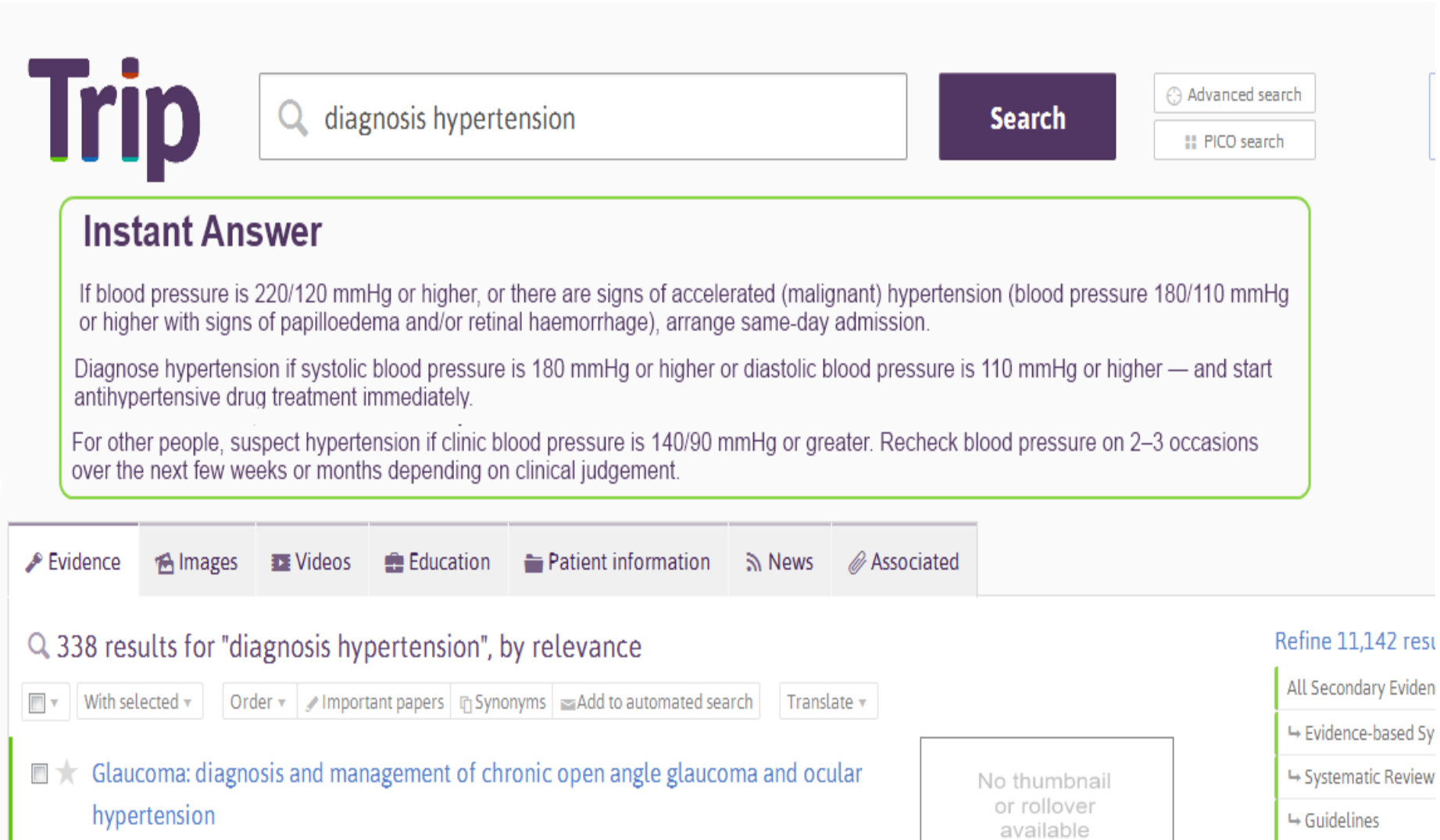
Answer engine



Automated reviews

- Automated or virtually automated semi-systematic reviews
- Aim: systematic review quality results in less than a day
- ‘The automation of systematic reviews’, recent BMJ editorial
- It will happen sooner than people suspect

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Any questions?

Jon Brassey

jon.brassey@tripdatabase.com

www.tripdatabase.com