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# Evidence to support the adoption of new biomarkers

## Searching for existing evidence...quickly

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Is there a role for point of care chlamydia testing in a national screening programme?







# Asking the right questions?

- What is the diagnostic accuracy of current chlamydia point of care tests?
- Is chlamydia POCT cost-effective in comparison with current testing procedures?
- What impact does POCT have on the treatment of chlamydia?
- Does POCT improve workflow in STI clinics?
- Is rapid diagnosis and treatment important to people attending STI clinics?



# Overarching question

- P = people attending a sexual health clinic
- I = point of care test
- R = laboratory test
- T = Chlamydia
  
- Key search terms
  - point of care test
  - chlamydia

# 1<sup>st</sup> step: identify overviews

- Secondary sources
  - Evidence syntheses, horizon scanning reports, systematic reviews...
- TRIP database [www.tripdatabase.com](http://www.tripdatabase.com)
- NHS Evidence Search [www.evidence.nhs.uk](http://www.evidence.nhs.uk)
- Google [www.google.co.uk](http://www.google.co.uk)



## 2<sup>nd</sup> step: identify DTA studies

- Develop search strategy
  - Identify synonyms
  - Combine with Boolean operators – AND/OR
  - Use advanced searching techniques - \* ? ""
- Apply filter for diagnostic accuracy studies
- Run search on PubMed [www.pubmed.gov](http://www.pubmed.gov)



# Search tips

- **AND** – combine 2 different concepts to focus your search e.g. poct AND chlamydia
- **OR** – combine synonyms for the same concept to broaden your search e.g. “point of care” OR poct
- **()** – nesting to put a search together e.g. (“point of care” OR poct) AND chlamydia
- **\*** - truncation to identify variant spellings e.g. test\* for capturing test, tests, testing...
- **“”** – phrase searching, two or more words next to each other
- **[field searching]** – search for words in specific areas of a PubMed record e.g. [ti] restricts to title

# Search strategy

1. Point of care test\* OR poc OR poct OR rapid test\*
2. Chlamydia\*
3. 1 AND 2
4. DTA filter



Design your  
own DTA  
search filter

# Search strategy

1. Point of care test\* OR poc OR poct OR rapid test\*
2. Chlamydia\*
3. 1 AND 2
4. Sensitivity OR specificity OR “predictive value” OR ppv OR npv OR diagnos\*[ti]
5. 3 AND 4



- Advanced search
- Clinical queries

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



# 3<sup>rd</sup> step: identify other studies

- Adapt your search strategy
  - Filter for cost studies
  - Filter for implementation studies
  - Filter for qualitative studies
- Design your own filter or use PubMed Topic-Specific Queries





# Other search resources

- Cochrane Library [www.thecochranelibrary.com/](http://www.thecochranelibrary.com/)
- CRD databases  
[www.crd.york.ac.uk/CRDWeb/](http://www.crd.york.ac.uk/CRDWeb/)
- MEDIONdatabase  
[www.mediondatabase.nl/](http://www.mediondatabase.nl/)
- Embase  
[www.elsevier.com/online-tools/embase](http://www.elsevier.com/online-tools/embase)
- ClinicalTrials.gov  
<http://clinicaltrials.gov/ct2/home>

# More information on searching

- PubMed tutorials

[www.nlm.nih.gov/bsd/disted/pubmed.html](http://www.nlm.nih.gov/bsd/disted/pubmed.html)

- Cochrane Handbook for DTA reviews

<http://srdta.cochrane.org/handbook-dta-reviews>

- CRD's guidance for undertaking reviews in health care

[www.york.ac.uk/inst/crd/pdf/Systematic\\_Reviews.pdf](http://www.york.ac.uk/inst/crd/pdf/Systematic_Reviews.pdf)

- Searching Skills Toolkit

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-EHEP003109.html>