

Searching skills of palliative care clinicians

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Why searching skills?

Many reasons why we might need information.

- Unfamiliar clinical situation
- Staying up to date with new evidence
- Getting involved with research or teaching
- Patients and families with questions......

Search mediates retrieval



Why this study?

Part of a series of studies on access to information

- Review of currency and performance of Palliative Care Search Filter
- Looking at where palliative care clinicians look for information
- Understanding searching competence in bibliographic databases





What do we know about searching?

- Expanding literature base
- Clinicians report lack of time and lack of expertise
- Information skills often not retained post graduation



 Log query studies show short strings and little use of Boolean operators



Aims

- To analyse content and structure of searches created by palliative care clinicians
- To quantify the effectiveness of each search
- To compare searcher competence/confidence with performance
- To compare retrieval of clinician searches with Palliative Care Search Filter



Methods: Clinician Searches

- Two groups created & stored search in PubMed
 - Enrolled in postgraduate palliative care topic at FU (n=19)
 - Delegates at PCA Conference September 2011 (n=18)
- '..create a search which you believe will retrieve as many articles as possible relevant to palliative care generally..'
- Search reviewed by health librarian for technical errors and conceptual limitations(eg Boolean logic, typos, truncations, limits, synonyms etc)
- Survey on self-assessed confidence and competence



Methods: Retrieval Performance

- Created Palliative Care Citation Set
 - National Advisory Group confirmed a set of 25 systematic reviews as relevant to palliative care
 - Included studies retrieval on Medline included (n=663)
- Tested how many of these citations were retrieved by running each search independently and combining with citation set using AND



Results: Search Construction

- 37 searches constructed and analysed
- 134 search terms used across all searches
- 4/37 impaired by typographical errors
- 10 limited their search by AND to a specific domain or element (eg spirituality)
- Of most concern... 8/37 (22%) used AND not OR in combining synonyms for palliative care



Examples of Common Errors

Incorrect use of Boolean operators	Palliative care AND hospice AND terminal care AND end of life AND quality of life AND holistic care AND total care AND dying AND death AND symptom control AND psychological issues AND bereavement AND grief AND family care Palliative care/sense of identity	
Inappropriate search syntax for PubMed		
Unnecessary use of limits in creating a broad, sensitive search	Palliative care Limits: English, All Child: 0-18 years, All Adult: 19+ years, published in the last 3 years	
Spelling errors	life limiting illnes', 'psycosocial*', and 'palliaitve care'	



Results: Retrieval Efficiency

- Mean number of 663 items retrieved by clinicians was 166 (25%)
- Range retrieved items: 0 623
- Only 8/37 retrieved more than 50% of the test set
- Palliative Care Search Filter
 retrieved 451 items





Results: Confidence and competence

- 70% of clinicians used PubMed sometimes or always
- Over half were confident in their PubMed searching skills
- 28/37 (76%) believed they would find more than 50% of the articles
- In reality... only 8/37 (22%) found more than half



Results: Not just retrieval

 Several searches actually were very sensitive and retrieved significant numbers of the citation set

One search retrieved 623/663 (94%)

BUT it was not very precise. When you ran this search in PubMed it retrieves 4, 490,734 items. WHY? It included patient as a term.



#	Search strategy	No. PubMed citations retrieved	No. (%) of test set citations retrieved
1	Terminal disease OR terminal care OR end of life care OR palliative care OR death OR dying OR patient OR palliation OR terminal illness	4,490,734	623 (94%)
2	Palliative OR end of life OR terminal OR end stage OR hospice OR life limiting OR euthanasia OR death OR dying OR bereavement OR grieving OR grief OR morphine OR payne OR higginson OR currow OR kristjanson OR opioid OR saunders OR balfour mount OR subcutaneous infusion	1,063,288	490 (74%)
3	Palliative care OR end of life care OR terminal care OR death OR death management OR hospice care OR domicillary palliative care OR institutional palliative care OR terminal care OR endstage chronic disease care OR end stage terminal illness care	553,517	464 (70%)



Discussion

- Clinicians may not be finding relevant literature even when confident they have found it. Overconfidence can be an issue.
- Searching is a technical skill. It may not be realistic to expect everyone to have these skills. However, there are many opportunities to improve your skills.
- Searching resources, such as the Palliative Care Search Filter, can be an effective option for managing the palliative care evidence base.
- Retrieval systems are becoming more sophisticated



Search

Main Menu

Clinical Evidence

Education

Home

Finding and Using Evidence

Research Resources

CareSearch Hubs

About CareSearch

Contact CareSearch

What is Palliative Care?

Finding and Using Evidence

Searching for Evidence

Patients, Carers and Families Finding Services About Evidence Based Practice

Using Evidence in Practice

CareSearch Grey Literature

CareSearch Review Collection

Palliative Care PubMed Searches

 Create Your Own Palliative Care PubMed Search

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- > Technical Notes
- > Palliative Care Filter Effectiveness Study

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You are here: Finding and Using Evidence » Palliative Care PubMed Searches

Palliative Care PubMed Searches

The links on this page provide an easy and reliable way to find the relevant palliative care literature in English. Each link runs an immediate search of PubMed and all searches are automatically updated as new articles are added to the database. These searches use the <u>Palliative Care Search Filter</u> as their base.

	Patient problems	Specific needs	Issues relating to care & treatment
	Airway Obstruction	Aboriginal and Torres Strait	Advance Care Planning
	<u>Anorexia</u>	<u>Islander Health</u>	Advance Directives
	<u>Anxiety</u>	Aged	Audit
	<u>Appetite</u>	Aged Care Facilities	Communication
	Artificial Nutrition	<u>Dementia</u>	Complementary Therapies
	Bereavement & Grief	Disabled	Dignity Rectangular Snip
	Bowel Obstruction	<u>Gay, Lesbian, Bisexual,</u>	End-of-Life Care
	<u>Cachexia (Weight Loss)</u>	Transgender & Intersex	<u>Euthanasia</u>
	Constipation	<u>Homeless</u>	Family Distress
	<u>Cough</u>	Living Alone	General Practice
	<u>Delirium</u>	Mental Illness	Models of Service Delivery
	Depression	Multicultural	Multi-disciplinary Teams
	<u>Dysphagia</u>	<u>Paediatrics</u>	Palliative Sedation
	<u>Dyspnoea</u>	Prisoners	Patient Education
	Existential Distress	Refugees and Asylum Seekers	Professional Burnout
	<u>Fatigue</u>	Rural & Remote Health	<u>Quality of Life</u>
	<u>Haemoptysis</u>		Resuscitation Orders
	Nausea		Social Support
	<u>Pain</u>	Health professionals	<u>Spirituality</u>
	Prognosis	<u>Dietitians</u>	Terminal Care
	Prolonged Grief	General Practitioners	Volunteering

Music Therapists

Respiratory Secretions



Conclusion

- Being able to find evidence is important
- Being aware that retrieval is affected by your search construction is important
- Using searching resources such as the Palliative Care Search Filter may be an efficient and effective way to access palliative care evidence





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