Part 1

Finding and using resources
Contacts

Jeremy Cullis
• Ph: 9850 7399; jeremy.cullis@mq.edu.au

Mary Simons
• Ph: 9850 7536; mary.simons@mq.edu.au
Clinical Librarians

• Consultations in your office/clinic for finding and using information
• Attendance at clinical meetings, including oncology MDTs, related searches
• Assist with literature searches for clinical, research or teaching purposes
• Develop and document search strategies for the preparation of systematic reviews
• Obtain articles and books that are not available through the Library Request new purchases for the Library collection
• Help using EndNote or other software to manage your references
• Measure research output using bibliometric tools (eg: h-Index) journal impact factors and citation searching for ERA, grant applications, promotions.
http://www.mq.edu.au/about/campus-services-and-facilities/library
Quick Links: Clinical tools on the run

http://libguides.mq.edu.au/medicinequicklinks
Clinical Medicine – more resources

http://libguides.mq.edu.au/clinical-medicine
Neurosurgery Resources

http://libguides.mq.edu.au/neurosurgery
Draw It To Know It (Neuroanatomy)
STATdx: Radiology diagnostic decision support

Contact Jeremy or Mary for login
STATdx: Radiology diagnostic decision support
Evidence-Based Surgery (EBS)
Evidence-Based Surgery (EBS)
<table>
<thead>
<tr>
<th>EBS checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Check EBS 6 month schedule</strong> – allow time to prepare (3 weeks)</td>
</tr>
<tr>
<td><strong>Discuss question with supervisor</strong></td>
</tr>
<tr>
<td><strong>State a clear clinical question</strong></td>
</tr>
<tr>
<td><strong>Search databases with librarian initially</strong></td>
</tr>
<tr>
<td><strong>Revise search many times</strong></td>
</tr>
<tr>
<td><strong>Manage results</strong> – EndNote and Table (eg: Excel)</td>
</tr>
<tr>
<td><strong>Focus on search process not just the results</strong> – it is not journal club</td>
</tr>
<tr>
<td><strong>Collate results in chart</strong> – use levels of evidence (note the source: NHMRC, AHA etc)</td>
</tr>
<tr>
<td><strong>Find full text</strong></td>
</tr>
<tr>
<td><strong>Use evidence to answer the question</strong></td>
</tr>
<tr>
<td><strong>Reflect!! Consider the benefit of EBS to your patients and you</strong></td>
</tr>
<tr>
<td><strong>Use EBS skills to write for publication</strong></td>
</tr>
<tr>
<td><strong>Use EBS skills to teach others</strong></td>
</tr>
</tbody>
</table>
Neurosurgery Journal Club
PART 2: SEARCHING

• Ovid Medline
• Embase
• Scopus
Question Development – not just PICO

STUDY TYPES AND QUESTION FORMATS

**PICO** (Studies of effects and economics)
- **P** Population
- **I** Intervention
- **C** Comparator
- **O** Outcome

**PO** (eg: natural history)
- **P** Population
- **O** Outcome

**PEO** (Case series)
- **P** Population
- **E** Exposure
- **O** Outcome

**PlCo** (Qualitative studies)
- **P** Population
- **I** Phenomena of Interest
- **C** Context

Part 2 Searching: Live Searches

Search 1

**Question:** How effective is gamma knife for treating trigeminal neuralgia?

**P** (Population): patients with trigeminal neuralgia

**I** (Intervention): gamma knife radiosurgery

**C** NA

**O** (Outcome): pain reduction
### Ovid Medline

<table>
<thead>
<tr>
<th>#</th>
<th>Searches</th>
<th>Results</th>
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<tbody>
<tr>
<td>1</td>
<td>Trigeminal Neuralgia/</td>
<td>6680</td>
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<tr>
<td>2</td>
<td>Radiosurgery/</td>
<td>15109</td>
</tr>
<tr>
<td>3</td>
<td>1 and 2</td>
<td>474</td>
</tr>
<tr>
<td>4</td>
<td>limit 3 to english language</td>
<td>443</td>
</tr>
<tr>
<td>5</td>
<td>limit 4 to (clinical study or clinical trial, all or clinical trial)</td>
<td>28</td>
</tr>
</tbody>
</table>

- Search for each term separately, combine
- map to MeSH (Medical Subject Headings); add limits
- Add gamma knife as keyword (.mp.) to radiosurgery for more specific term.
- Live Search
Subject Headings & Keywords

• A **Subject Heading** (MeSH) describes what the article is about - one word/phrase concept

• A **keyword** or **text word** refers to the occurrence of the word in the article, but it may not be what the article is about. Not so useful. In this way keywords can be misleading. Keywords are sometimes called “Text Words” or “All Fields Words”

• Example: There can be a big difference between the subject heading for “Stroke” and the key word for “stroke” when searching for articles about stroke.
Run search on Embase

<table>
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<th>#</th>
<th>Searches</th>
<th>Results</th>
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<tbody>
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<td>10192</td>
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<tr>
<td>2</td>
<td>gamma knife radiosurgery/</td>
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<tr>
<td>3</td>
<td>1 and 2</td>
<td>616</td>
</tr>
<tr>
<td>4</td>
<td>limit 3 to english language</td>
<td>588</td>
</tr>
<tr>
<td>5</td>
<td>limit 4 to conference abstract status</td>
<td>87</td>
</tr>
<tr>
<td>6</td>
<td>4 not 5</td>
<td>501</td>
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</table>

Remove conference abstracts from Embase
Search 2

• Are patients with familial intracranial aneurysms at greater risk of subarachnoid haemorrhages than patients with sporadic aneurysms?
Question formulation

• P – patients with familial aneurysms
• O – SAH risk
# Searches

<table>
<thead>
<tr>
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<th>Searches</th>
<th>Results</th>
</tr>
</thead>
<tbody>
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<td>1</td>
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<td>301</td>
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<tr>
<td>2</td>
<td>Subarachnoid Hemorrhage/</td>
<td>20710</td>
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<tr>
<td>3</td>
<td>1 and 2</td>
<td>93</td>
</tr>
<tr>
<td>4</td>
<td>Risk Factors/</td>
<td>803927</td>
</tr>
<tr>
<td>5</td>
<td>3 and 4</td>
<td>28</td>
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</tbody>
</table>
Scopus – keyword, citing refs

Search:

"intracranial aneurysm*" AND familial AND risk

白菜, "Cognitive architectures" AND robots

AND

"Subarachnoid h*emorrhage" OR rupture

Abstract

Limit

Reset form Search Q
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MAY-JUNE 2020

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- Improve your professional CV - EBM courses are an important professional development activity for medical practitioners when seeking training positions, promotions etc.