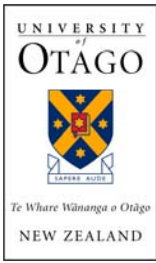


# Searching for evidence

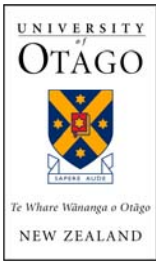


# Searching for evidence

A suggested model for a literature search:

1. Define your problem
2. Create a search strategy
3. Choose bibliographic databases
4. Search
5. Select suitable references
6. Assess whether the search was satisfactory
7. Repeat steps 2-6, if necessary

(Bartels, 2009)

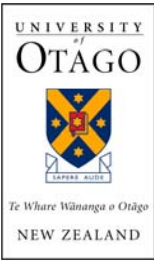


# Searching for evidence

Define your problem (step 1)-

*What methods will reduce the incidence of elderly people falling in hospital?*

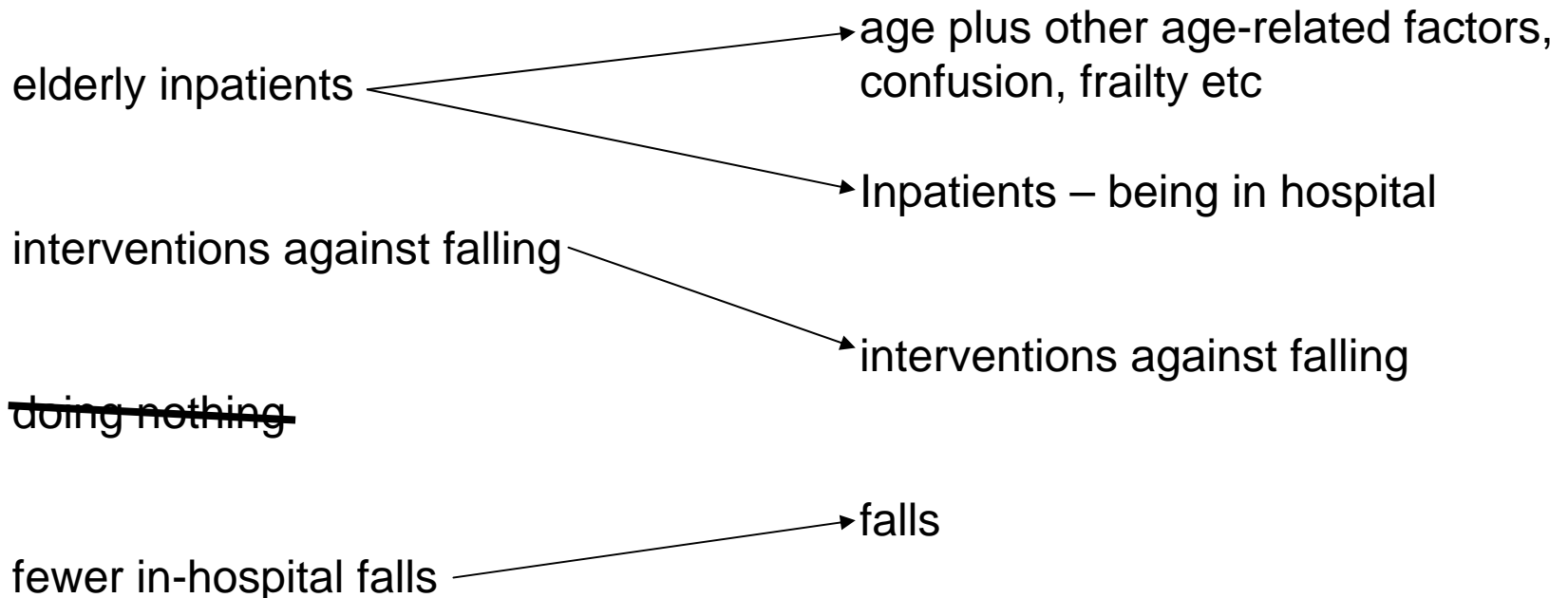
- P elderly inpatients
- I interventions against falling
- C doing nothing
- O fewer in-hospital falls



# Searching for evidence

Create a search strategy (step 2)-

*What methods will reduce the incidence of elderly people falling in hospital*



# Searching for evidence

*List the key words for each concept*

OR

Falls  
Accidental falls  
Falling  
Fall prevention  
Fall risk assessment

OR

Elderly  
Confusion  
Confused  
Mobility  
Age limit

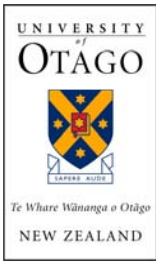
AND

OR

Inpatients  
Wards  
Hospital (hospital\*)  
Hospitals  
Hospitalized  
Hospitalised

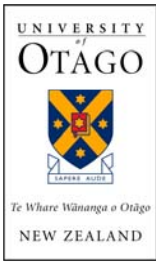
OR

Bedrails  
Beds  
Interventions  
Chemical restraints  
Physical restraints  
Bed alarms  
Chairs/furniture  
Staff ratios



# Searching for evidence

1. ✓ Define your problem
2. ✓ Create a search strategy
3. Choose bibliographic databases
4. Search
5. Select suitable references
6. Assess whether the search was satisfactory
7. Repeat steps 2-6, if necessary



# Searching for evidence

- Two databases that sift & organise
  - Trip
  - OvidSP All EBM Reviews
- Medline – useful publication types & limits

Search

[Advanced Search](#) [Search Tips](#)

Results are organised for you

SELECT ALL

1. [Hand washing for preventing diarrhoea](#)

Cochrane Database of Systematic Reviews 2008

[Use as CPD](#) [Preview](#) [Conclusion](#)

2. [Ascariasis and handwashing.](#)

Transactions of the Royal Society of Tropical Medicine & Hygiene 2008

[Use as CPD](#) [Preview](#) [Conclusion](#)

3. [A handwashing intervention in a low income community in the developing world reduced disease incidence in children](#)

Evidence-Based Medicine (Requires free registration) 2006

[Use as CPD](#) [Preview](#) [Conclusion](#)

4. [Effect of handwashing on child health: a randomised controlled trial.](#)

Lancet

[Use as CPD](#) [Preview](#) [Conclusion](#)

5. [Handwashing in the intensive care unit: a big measure with modest effects](#)

DARE. 2005

[Use as CPD](#) [Preview](#) [Conclusion](#)

6. [Handwashing and the Flu](#)

MedlinePlus Health News 6 Oct 2009

[Use as CPD](#) [Preview](#) [Conclusion](#)

7. [Difficulties in maintaining improved handwashing behavior, Karachi, Pakistan.](#)

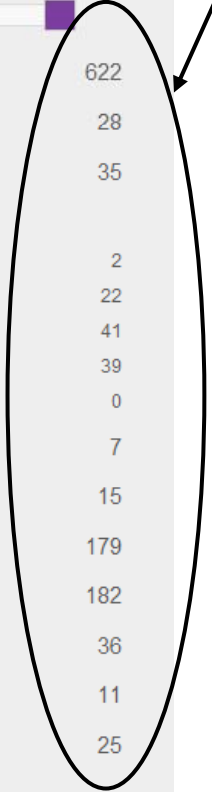
American Journal of Tropical Medicine & Hygiene 2009

[Use as CPD](#) [Preview](#) [Conclusion](#)

### Filter Your Search [what is this?](#)



<b>Total</b>	622
Evidence Based Synopses	28
Systematic Reviews	35
Guidelines	
Aus. & NZ	2
Canada	22
UK	41
USA	39
Other	0
Clinical Q&A	7
Core primary research	15
Extended primary research	179
eTextbooks	182
Patient Information	36
More	11
News	25





Search

[Advanced Search](#) [Search Tips](#)

Systematic reviews include material from the Cochrane Library, DARE etc

SELECT ALL

1. [Hand washing for preventing diarrhoea](#)

Cochrane Database of Systematic Reviews 2008

[Use as CPD](#) [Preview](#) [Conclusion](#)

2. [Handwashing in the intensive care unit: a big measure with modest effects](#)

DARE, 2005

[Use as CPD](#) [Preview](#) [Conclusion](#)

3. [The effect of a comprehensive handwashing program on absenteeism in elementary schools](#)

NHS Economic Evaluation Database, 2002

[Use as CPD](#) [Preview](#) [Conclusion](#)

4. [Gowning by attendants and visitors in newborn nurseries for prevention of neonatal morbidity and mortality](#)

Cochrane Database of Systematic Reviews 2009

[Use as CPD](#) [Preview](#) [Conclusion](#)

5. [Effect of washing hands with soap on diarrhoea risk in the community: a systematic review](#)

DARE, 2003

[Use as CPD](#) [Preview](#) [Conclusion](#)

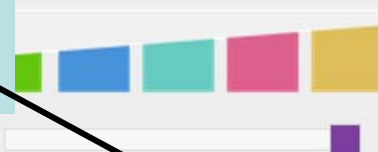
6. [Best Practice Statement - Urinary Catheterisation and Catheter Care](#)

NHS Quality Improvement Scotland 2004

[Use as CPD](#) [Preview](#) [Conclusion](#)

7. [The provision of alcohol-based products to improve compliance with hand hygiene](#)

Your Search [what is this?](#)



Total	622
Evidence Based Synopses	28
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Guidelines	
Aus. & NZ	2
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Core primary research	15
Extended primary research	179
eTextbooks	182
Patient Information	36
More	11
News	25



Search

[Advanced Search](#) [Search Tips](#)

Order By: [Date](#) [Relevance](#)

SELECT ALL

1. [Effect of handwashing on child health: a randomised controlled trial.](#)

Lancet

[Use as CPD](#) [Preview](#) [Conclusion](#)

2. [Effect of intensive handwashing promotion on childhood diarrhea in high-risk communities in Pakistan: a randomized controlled trial.](#)

JAMA 2004

[Use as CPD](#) [Preview](#) [Conclusion](#)

3. [Effect of antibacterial home cleaning and handwashing products on infectious disease symptoms: a randomized, double-blind trial.](#)

Annals of Internal Medicine 2004

[Use as CPD](#) [Preview](#) [Conclusion](#)

4. [Efficacy of handrubbing with alcohol based solution versus standard handwashing with antiseptic soap: randomised clinical trial.](#)

BMJ 2002

[Use as CPD](#) [Preview](#) [Conclusion](#)

5. [Physical interventions to interrupt or reduce the spread of respiratory viruses: systematic review.](#)

BMJ 2007

[Use as CPD](#) [Preview](#) [Conclusion](#)

6. [Physical interventions to interrupt or reduce the spread of respiratory viruses: systematic review.](#)

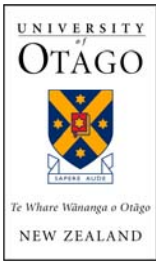
BMJ 2009

[Use as CPD](#) [Preview](#) [Conclusion](#)

Includes the literature that these reviews are based upon

Evidence Based Synopses	28
Systematic Reviews	35
Guidelines	
Aus. & NZ	2
Canada	22
UK	41
USA	39
Other	0
Clinical Q&A	7
<b>Core primary research</b>	<b>15</b>
Extended primary research	179
eTextbooks	182
Patient Information	36
More	11
News	25





# Searching for evidence

## Trip database

- Search results filtered into groups
- Find it on the CDHB Databases web page
- Free [www.tripdatabase.com](http://www.tripdatabase.com)



## Select a database to begin searching:

Open selected resources

[Browse Your Journals@Ovid](#)

[Browse Books](#)

- [Books@Ovid](#) October 20, 2009
- [Your Journals@Ovid](#)
- [AMED \(Allied and Complementary Medicine\)](#) 1985 to October 2009
- [EBM Reviews - ACP Journal Club](#) 1991 to September 2009
- [EBM Reviews - Cochrane Central Register of Controlled Trials](#) 4th Quarter 2009
- [EBM Reviews - Cochrane Database of Systematic Reviews](#) 3rd Quarter 2009
- [EBM Reviews - Cochrane Methodology Register](#) 4th Quarter 2009
- [EBM Reviews - Database of Abstracts of Reviews of Effects](#) 4th Quarter 2009
- [EBM Reviews - NHS Economic Evaluation Database](#) 4th Quarter 2009
- [EBM Reviews - Health Technology Assessment](#) 4th Quarter 2009
- [EBM Reviews Full Text - Cochrane DSR, ACP Journal Club, and DARE](#)
- [All EBM Reviews - Cochrane DSR, ACP Journal Club, DARE, CCTR, CMR, HTA, and NHSEED](#)

Click on the triangle to see the individual sets

▼ Search History (1 search) (Click to close) Remove Duplicates View

<input type="checkbox"/>	# ▲	Searches	Results	Search Type	Actions
<input type="checkbox"/>	1	handwashing.mp. [mp=ti, ot, ab, tx, kw, ct, sh, hw] <a href="#">EBM Reviews - Cochrane Database of Systematic Reviews &lt;3rd...</a> (14) <a href="#">EBM Reviews - ACP Journal Club &lt;1991 to September 2009&gt;</a> (0) <a href="#">EBM Reviews - Database of Abstracts of Reviews of Effects &lt;4...</a> (14) <a href="#">EBM Reviews - Cochrane Central Register of Controlled Trials ...</a> (209) <a href="#">EBM Reviews - Cochrane Methodology Register &lt;4th Quarter ...</a> (0) <a href="#">EBM Reviews - Health Technology Assessment &lt;4th Quarter 2...</a> (2) <a href="#">EBM Reviews - NHS Economic Evaluation Database &lt;4th Quart...</a> (15)	254	Advanced	<input type="button" value="Display"/> <input type="button" value="Delete"/> <input type="button" value="Save"/>

Remove Selected | Save Selected | Combine selections with:

Save 5

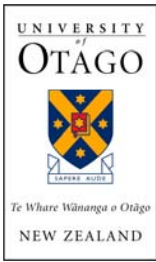
**Search** All EBM Reviews - Cochrane DSR, ACP Journal Club, DARE, CCTR, CMR, HTA, an

Basic Search | Find Citation | Search Tools | Search Fields | **Advanced Ovid Search** | Multi-Field Search

Keyword
  Author
  Title
  Journal

Universal Search

▼ Limits (Click to close)



# Searching for evidence

## *All EBM Reviews*

- One of the OvidSP databases
- Find it on the CDHB databases web page
- Searches all the EBM databases at once
- Search results are grouped
- Available at work

# Tips for using Medline

▼ Search History (5 searches) (Click to close)

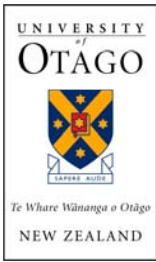
<input type="checkbox"/>	# ▲	Searches	Results
<input type="checkbox"/>	1	handwashing.mp.	2736
<input type="checkbox"/>	2	Program Evaluation/	27570
<input type="checkbox"/>	3	1 and 2	69
<input type="checkbox"/>	4	limit 1 to (guideline or practice guideline)	29
<input type="checkbox"/>	5	limit 1 to ("article reviews (acp journal club)" or "article reviews (dare)")	11

Combine the topic with -

Or limit the topic with -

Remove Selected | Save Selected | Combine selections with: And Or





# Searching for evidence

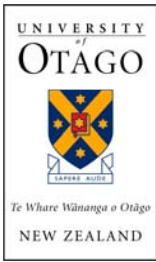
## Some useful reading:

Bartels, E. M. (2009). How to keep up with medical literature. *Best Practice & Research in Clinical Rheumatology*, 23(2), 281-290.

Cronin, P., Ryan, F., & Coughlan, M. (2008). Undertaking a literature review: a step-by-step approach. *British Journal of Nursing (BJN)*, 17(1), 38-43.

Timmins, F., & McCabe, C. (2005). How to conduct an effective literature search. *Nursing Standard*, 20(11), 41-47.





# Information for Your Audit

- Background information
- Guidelines
- Healthcare errors
- Tools and measures
- Statistics

# A good place to start

- CDHB Quality Website
- Library Resources
- Internet Resources
- Colleagues
- Toward Clinical Evidence

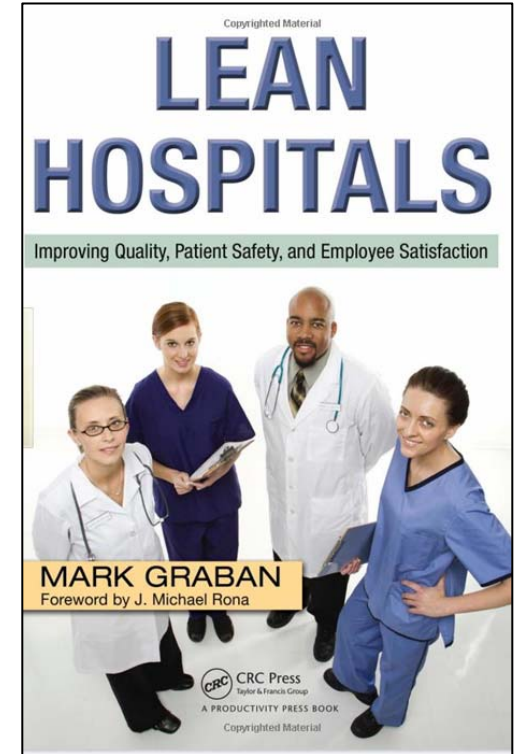
<http://www.moh.govt.nz>



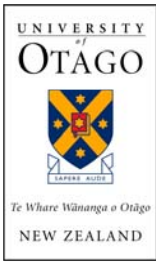
# Finding out about Quality

A couple of good books –

- **Lean Hospitals** by Mark Graban
- **Lean Healthcare Pocket Guide** by Debra Hadfield and Shelagh Holmes



*See the handout – CML books on quality health care.*



# Library Resources

- Catalogue
- Databases
- Hot Topics – Quality health
- Articles of Interest

<a href="#">About UOC</a> <a href="#">Courses &amp; Programmes</a> <a href="#">Departments &amp; Research Groups</a> <b>Library</b> <a href="#">Hours</a> <a href="#">Library Contacts</a> <a href="#">Off-campus Access (university staff &amp; students only)</a> <a href="#">Electronic Journals</a> <a href="#">Catalogue</a> <a href="#">Exam Papers</a> <a href="#">Electronic Books</a> <a href="#">Databases</a>	<b>Canterbury Medical Library</b>		
	<b>Services</b>	<b>Libraries</b>	<b>Need help?</b>
	<a href="#">Articles of Interest</a>	<a href="#">About the Library</a>	<a href="#">Electronic Resources Access Problems?</a>
	<a href="#">Clinical Information Support Service</a>	<a href="#">Collection</a>	<a href="#">Tips for Printing PDFs</a>
	<a href="#">Interloan</a>	<a href="#">Membership</a>	<a href="#">Off-Campus Access</a>
	<a href="#">RequestLoans/Requests</a>	<a href="#">Prices</a>	<b>Other info</b>
	<a href="#">Training</a>	<a href="#">Staff</a>	<a href="#">Library Committee</a>
	<a href="#">Other Services</a>	<a href="#">University of Otago Libraries</a>	<a href="#">Library Review</a>

# Hot Topics – Quality Health



Christchurch  
School of Medicine  
& Health Sciences

[Home](#) > [Library Resources](#) >

[About UOC](#)

[Courses &  
Programmes](#)

[Departments &  
Research Groups](#)

[Library](#)

[Hours](#)

[Library Contacts](#)

[Off-campus](#)

[Access](#)

(university staff &  
students only)

[Electronic Journals](#)

[Catalogue](#)

[Exam Papers](#)

[Electronic Books](#)

[Databases](#)

## Library- Hot Topics - Quality Health Care

Canterbury Medical Library is in the process of developing this Hot Topic. The list below health care quality.

Looking for information for audit or quality care?

Check out these websites in these categories:

- [Top 20+ Health Care Websites](#)
- [Key Health Care Websites](#)
- [Guidelines](#)
- [Resources](#)
- [Technology](#)
- [Blogs](#)
- [Specialist areas](#)
- [Tools for Quality](#)
- [Drugs](#)
- [Statistics](#)
- [Other](#)
- [General sites that sometimes have information for health care quality](#)

# Articles of Interest



UNIVERSITY  
of  
OTAGO

Te Whare Wānanga o Ōtago

University of Otago  
CHRISTCHURCH

Home > Library Resources >

## Library - Articles of Interest

The very popular "Articles of Interest" series is

The three series which are currently available

- General Practice
- Nursing
- Quality

Articles are available from the library or online School of Medicine & Health Sciences network.

External readers should arrange copies through

**About UOC**

**Courses & Programmes**

**Departments & Research Groups**

**Library**

Hours

Library Contacts

Off-campus Access (university staff & students only)

Electronic Journals

Catalogue

Exam Papers

Electronic Books

Databases



Canterbury Medical Library

## Articles of Interest : Quality

V5 No1 March 2009

### Quality•Net

#### Lean thinking in Healthcare

<http://intranet.cdhb.local>

This superb presentation by Brian Dolan, while CDHB's Director of Service Improvement and Patient Flow, provides a useful and relevant overview of lean thinking in healthcare.

The 2008 presentation was developed with support from Shona MacMillan, Quality Manager, and links from the quality website. [Full Text](#)

#### Australasian Lean Healthcare Network

<http://www.leanhealth.net.au>

The Network's website describes lean healthcare as a method for organising complex systems – makes them easier to manage, work as intended, and take less time. [Full Text](#)

#### Redesigning Care

<http://www.flinders.sa.gov.au/redesigningcare/>

Flinders Medical Centre (FMC) initiated their Redesigning Care program to address the increasing demand for emergency services and elective surgery in the hospital. [Full Text](#)

#### Lean in Healthcare

<http://www.ihconline.org/>

Look under 'Toolkits' on the menu bar for a number of useful guides to improvement in healthcare, including 'Lean in healthcare' toolkit:

- *Education & Tools - Lean basics*
  - *Articles - Pulling Lean through a hospital.*
  - *Success Stories - University of Iowa Hospitals*
- [Full Text](#)

#### Lean Six Sigma: some basic concepts

<http://www.institute.nhs.uk/>

The NHS Institute for Innovation and

#### LEAN HEALTHCARE PRINCIPLES

The five principles:

- Specify value from the standpoint of end customer
- Identify the value stream or patient journey
- Eliminate waste
- Make the processes and value flow
- So the customer can pull

*From 'Lean thinking in Healthcare, Brian Dolan*



#### CDHB's acute non-invasive ventilation service wins a New Zealand Health Innovation Award

<http://www.healthinnovationawards.co.nz>

A Canterbury District Health Board project has won an Excellence in Quality Improvement in the New Zealand Health Innovation Awards:

This new CDHB service at Christchurch Hospital, is allowing people with emphysema and other respiratory diseases to be treated more quickly and safely. [Full Text](#)

#### Supporting Communication Between Nurses and Physicians

<http://www.scirus.com/>

Click into the search box and search for the title.

Note: This paper takes a while to download.

# Quality Methods

- **NHS Safer Care**

Improving patient safety

<http://www.institute.nhs.uk>

<b>Building Capability</b> Building world class capacity and capability for the NHS to improve clinical and service quality and control costs.	<b>Commissioning</b> Accelerating the achievement of World Class Commissioning.
<b>Innovation</b> Tools, techniques and approaches to support the NHS in making innovation happen.	<b>Quality and Value</b> Practical frameworks raising standards for patients and staff to create a world class organisation.
<b>Safer Care</b> Improving systems and processes, making it easier for staff to perform effectively.	<b>Share and Network</b> Establishing effective communication channels to create a culture of innovation.

- **AHRQ Patient Safety Network**

Patient Safety Primers

<http://www.psnet.ahrq.gov/>



The screenshot shows the AHRQ PSNet website interface. At the top is the AHRQ logo with the tagline 'Advancing Excellence in Health Care' and the website URL 'www.ahrq.gov'. Below the header is a navigation menu with 'Home' selected. The main content area features a search bar with a 'GO' button and a 'Patient Safety Network' title. A 'What's New This Week' section is visible, dated 11/18/09, with a link to 'View more of What's New' and 'XML' and 'RSS Feed' options. A 'Journal Articles' section is also present, featuring an article titled 'Diagnostic error in medicine: analysis of 583 physician-reported errors' by Schiff GD, Hasan O, Kim S, et al. from Arch Intern Med. 2009;169:1881-1887.



# Quality Tools

- NHS Quality and Service Improvement Tools

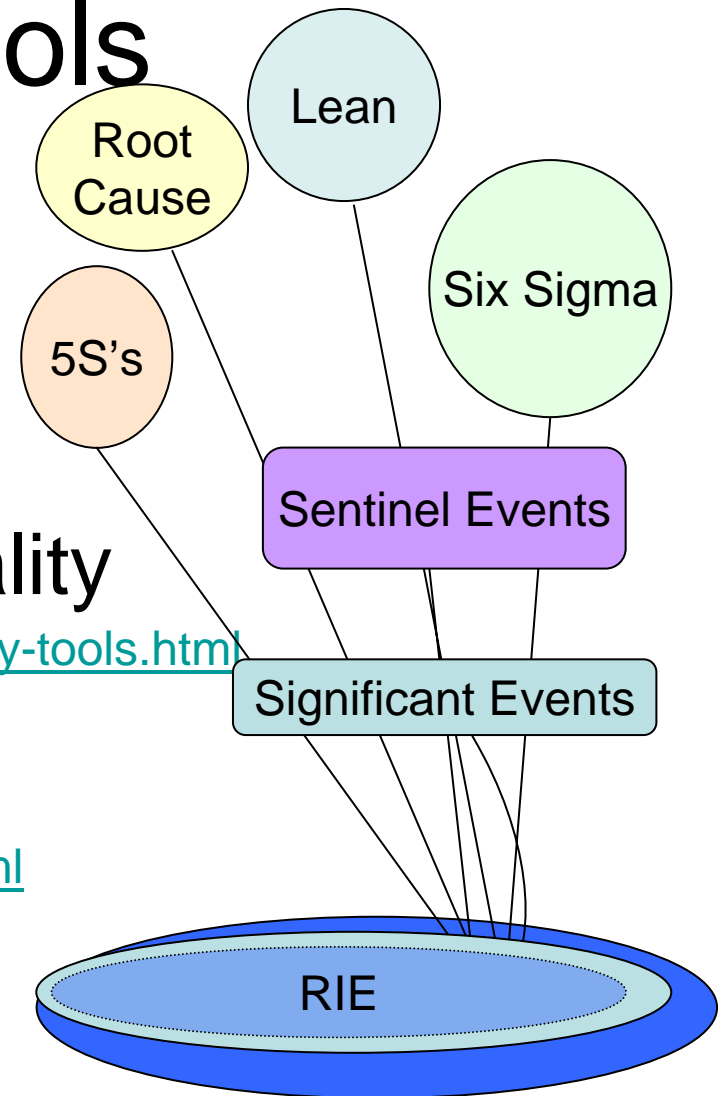
<http://www.institute.nhs.uk>

- American Society for Quality

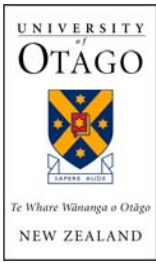
<http://www.asq.org/learn-about-quality/quality-tools.html>

- E-Quality

[http://quality.dlsu.edu.ph/tools/tool\\_chart.html](http://quality.dlsu.edu.ph/tools/tool_chart.html)







# Searching for evidence

## Library contact detail:

Phone: Ext 80504 or

Email [referencecml.uoc@otago.ac.nz](mailto:referencecml.uoc@otago.ac.nz)

Website: [www.otago.uoc.ac.nz/departments/library/](http://www.otago.uoc.ac.nz/departments/library/)