

Searching for studies in *The Cochrane Library*

This exercise can be completed alone or in pairs, and requires access to a computer with an internet connection. For this exercise, we will be searching the Cochrane Central Register of Controlled Trials (CENTRAL) for studies relevant to the review, 'Caffeine for daytime drowsiness'.

1. Open a web browser and go to <u>www.thecochranelibrary.com</u>.

Independent high-quality eviden	ce for health care decision making	from	The Cochrane CoBabonation
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SYSTEMATIC REVIEWS Saue 10 of 12, Oct 2012 <u>Contents</u>	Contraine Evidence Aut; resources for earthquakes	General health checks in adults for reducing morbidity and mortality from disease	Search Control Store
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Blood deorders (122) Cancer (409)	Avoiding unnecessary blood transfusion	medicine and a growing emphase on preventive care have led to	COCHRAME -ETHIOD
Child health (1481)		increased entricisiam for accessing in accessently healthy people. In ormany	
Complementary & alternative medicine (545)	744.5	care practice, the general health check (also termed periodic health evaluation or routine medical	CUCK HERE D
Consumer & communication strategies (52)		exampation) is the usual mechanism	02
Dentatry & oral health (132)		for decase. Although widely	Colcaria hom
Developmental, psychosocial, & learning problems (104)		practiced, there is no universally accepted definition of what constitutes a general health	
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Other Brouse Onlines	UNCLUSION AND AND AND AND AND AND	CHILD & DEC AND ADDRESS CON	

- 2. Click on Advanced Search. This will open the Advanced Search page.
- 3. The Population for this review is people with drowsiness. In the first row of the **Search** field, enter **drows***. This truncation will find words such as drowsy and drowsiness.
- 4. From the drop down box next to the field , select Title, Abstract or Keywords.

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Search	Search Manager	Medical Terms	(MeSH)	Browse
Title, Abstract, Keywords	drows*			Go Save
Search Limits View	search tips (Word variations have been sea	arched)		Add to Search Manager





Click **Go** to see you retreived results. On the search screen that pops up click <u>Add to Search</u> <u>Manager</u>

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Cc Conclusions changed Ns New search Mc Major change	Valpr Diper Augu	oic acid and sodium valproate for i nder Gill , Sheena Derry , Philip J V st 2012	neuropathic pain and fibrom Viffen and R Andrew Moore	yalgia in adults	Review
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6. This will open the **Search Manager** page.

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Questions	
How many records did your search find? Note: your answer may be different to the one shown in the picture.	
Can you think of alternate terms for drowsiness? Consider synonyms, related terms, opposites, truncation, etc. List your suggested search terms here.	

- 7. To add additional terms to your search, click on the **Search** tab again. Repeat Steps 3 and 4, but click on "Add to Search Manager" instead of "Go" to build your search strategy.
- 8. To combine searches, use the appropriate Boolean operator (AND, OR, NOT) and type in the row numbers that you want to combine.

Search	Search Manager	Medical Terms (MeSH)		Browse
To search an exact word(s) use quotation marks, e.,	g. "hospital" finds hospital; hospital (no quotation m	arks) finds hospital and hospitals; pay finds paid, pay	s, paying, payed)	
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9. When all your terms for drowsiness have been added to the **Search History**, click the **MeSH Search** link at the top of the page.

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Search	Search Manager	Medical Terms (MeSH)	>		Browse
Enter MeSH term	Select subheadings / d	qualifiers		Lookup	
View MeSH search tips					

10. This will open the **MeSH Search** page. In the Search for a MeSH descriptor field, enter drowsiness. Automatically, the form will suggest terms; click on "Drowsiness".

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THE COCHRANE LIBRARY Independent high-quality evidence for health care	, p decision making chrane Collaboration	SEARCH Title, Abstract or Keywords Advanced Search > MeSH Search > Search History > Saved Searches >
COCHRANE REVIEWS	OTHERRESOURCES	
Advanced Search MoSH Search Search History Saved Search by qualifier alone Search for a MoSH descriptor Enter MoSH for in	Searches	SEARCH TIPS Using the MeSH Search Find records using the MeSH thesaurus earch through the following methods.
Provsiness	, 	Use the thesawarus to find a term for a MeSM Tree Search. Enter word in text box and click on Thesawarus to display the complete index of all MeSH descriptors that include the word. Click on an index term to select if for a MeSH Tree
See Sten Slanz		Search (ees below). MOSH Trees Search Options Enter a term in the text loss and cick on 0 to MOSH Trees to view a tree structure of related terms. A listing of all displayed MoSH trees and check-hox selectors are displayed on the right of the form. The selected MoSH search term is displayed in the right of the form. The selected MoSH search term is displayed in the right of the form.

- 11. Click the **Lookup** button.
- 12. This will automatically map to Sleep Stages.

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THE COCHRANE LIBRARY Independent high-quality evidence for health care decision making		LOGIN Enter e-mail address FORGOTTE Enter password INSTITU			
	from The Cochrane Collaboration			R ME	
Search	Search Manager	Medical Terms (I	MeSH)		Browse
Sleep Stages	Select subheadings	s / qualifiers		Look	up
View MeSH search tips					
Definition			Search	results	
Sleep Stages - Periods of sleep manifested Stage 1: sleep onset, drowsy sleep; Stage 2 telencephalic sleep.	by changes in EEG activity and certain beha : light sleep; Stages 3 and 4: delta sleep, ligh	vioral correlates; includes nt sleep, deep sleep,	Ther • 1 • 6	e are 1419 resu leSH descripto explode all trees	ults for your search on r: [Sleep Stages]
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Any Word Match	Psychophysiology (+16) Sleep (+3)		Coc	0	
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	Tree Number 2				
	Musculoskeletal and Neural Phenomena (+2) Nervous System Physiolo	Physiological ogical Phenomena (+13)			
	Nervous System Phys [+17]	iological Processes			

13. Clicking on the bolded word "Sleep Stages" will show you the definition of the term.

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Search	Search Manager	Medical Terms (M	eSH)	Browse	
Sleep Stages	Select subheadings	/ qualifiers		Lookup	
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Definition Sleep Stages - Periods of sleep manifested Stage 1: sleep onset, drowsy sleep; Stage 2 telencephalic sleep.	by changes in EEG activity and certain behav light sleep; Stages 3 and 4: delta sleep, ligh	vioral correlates; includes It sleep, deep sleep,	Search results There are 1 • MeSH d • explode	s 419 results for your search escriptor: [Sleep Stages] all trees	on
Thesaurus matches	MeSH trees		Save sear	Add to Search Man	lager
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	Tree Number 2 Musculoskeletal and Neural Phenomena [+2]	Physiological			
	Nervous System Physiolo Nervous System Phys [+17] Sleep [+2]	ogical Phenomena [+13] iological Processes			

14. Scroll down to see the MeSH trees (lists of narrower terms) for Sleep Stages. The checkboxes to the left allow you to choose whether to 'explode' the term or not (this means to search any narrower terms listed below your term on the trees, as well as your selected term). For this exercise, do not change the default selection.

Search results	
There are 1419 results for your sea MeSH descriptor: [Sleep Stages explode all trees	rch on]
Save search Add to Search M	lanager
Cochrane Reviews	0
Other Reviews	5
Trials	1413
Methods Studies	0
Technology Assessments	0
Economic Evaluations	1
Cochrane Groups	0
View F	Results

15. Click the Add to Search Manager button.

16. This will return you to the **Search Manager** page. Scroll down to see that the MeSH term has been added to your search strategy.

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17. In the **Search** field, combine your search terms together using the Boolean operator OR (e.g. by entering **#3 or #4**, including the row number for each of your search terms so far).

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To search an exact word(s) use quotation marks	e.g. "hospital" finds hospital; hospital (no quotation ma	ules) finds hospital and hospitals;	pay finds paid, pays, pay	ing, payed	0
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18. Click the **Go** button.

Questions	
How many records did your combined search for drowsiness find?	
The intervention in this review is caffeine. Can you think of search terms for caffeine? Consider synonyms, related terms, opposites, truncation, etc. List your suggested search terms here.	

- 19. Using the **Search Manager** and **Medical Terms (MeSH)** pages, enter your search terms for caffeine, following steps 3-18.
- 20. In the **Search Manager** page, combine your search terms for caffeine together using the Boolean operator OR.
- 21. In the **Search Manager** page, combine your search terms for drowsiness together with your search terms for caffeine using the Boolean operator AND (i.e. using the row numbers in which you combined each set of terms using OR in your search history).

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Comments					

Question	
How many records did your combined search for	
drowsiness and caffeine find in total?	
Note: your answer and the search terms used may	
be different to those shown in the picture.	

22. Click on the underlined number in the final row of your search strategy. This will display your final search results.



23. By default, The Cochrane Library will display results found in the Cochrane Database of Systematic Reviews.

24. To see results found in CENTRAL, click the **Trials** link.

Cochrane Reviews (1)	There is 1 result from 7530 records for your search on #10 - #5 and #9 in Cochrane Reviews in the strategy currently bei edited
Review	Sort by Relevance 💙
Protocol Other Reviews (1) Trials (179) Methods Studies (1) Technology Assessments (0) Economic Evaluations (0) Cochrane Groups (0) All	Select all Export all Export selected Caffeine for asthma Emma J Welsh , Anna Bara , Elizabeth Barley and Christopher J Cates August 2012 Review Export selected
Me Methodology	
Ov Overview	
Cc Conclusions changed	
Ns New search	
Mc Major change	
Up Update	
Wd Withdrawn	

Questions	
How many records did your combined search	
find in the CENTRAL clinical trials database?	
Note: your answer may be different to the one shown	
in the picture.	

- 25. If you wish, you can export your results to your reference management software. Click the **Export all** button.
- 26. This will open an options screen. From the **Export Type** dropdown box, select **Abstract and citation**. From the **File Type** dropdown box, select the appropriate type for your computer (PC, Macintosh, Unix or Linux).

			8
Choose your export o	ptions		
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- 27. Click the Export Citation button.
- 28. This will allow you to save your results as a text file in the location of your choice, which can then be imported into your reference management software. You may need a filter to import records from The Cochrane Library – for more information, see the Cochrane Information Retrieval Group website at <u>http://irmg.cochrane.org/filters-reference-management-softwareprocite-reference-manager-and-endnote</u>.

This concludes the exercise.

Here is an example of a completed search strategy. Why not try building a search strategy for your own review question?

ID	Search
#1	MeSH descriptor Fatique, this term only
#2	MeSH descriptor Mental Fatique, this term only
#3	MeSH descriptor Arousal explode all trees
#4	alert*
#5	drows*
#6	fatiq*
#7	(#1 OR #2 OR #3 OR #4 OR #5 OR #6)
#8	MeSH descriptor Caffeine, this term only
#9	MeSH descriptor Coffee, this term only
#10	MeSH descriptor Tea, this term only
#11	<u>caffein*</u>
#12	coffee
#13	tea
#14	(#8 OR #9 OR #10 OR #11 OR #12 OR #13)
#15	(#7 AND #14)