

Best Evidence Summaries of Topics in Mental Healthcare

BEST in MH clinical question-answering service

Question

"In adults with dementia, what length of time should be left after stopping donepezil before initiating another cholinesterase inhibitor?"

Clarification of question

Patients: Adults with dementia

Intervention: Required period for switching from donepezil to another cholinesterase inhibitor

Outcome: Side effects; cognition.

Email: awp.BESTinMH@nhs.net Phone: 0117 378 4232/4233/4335



Clinical and research implications

Information on the optimal washout period for donepezil, before initiating another cholinesterase inhibitor, was very limited. Two, poorly reported randomised controlled trials compared different methods of switching from donepezil to memantine and galantamine, respectively. There was no strong evidence from either trial to suggest that either the length of washout period or abrupt versus stepwise cessation of donepezil made a significant difference to the effectiveness or safety of treatment. One study reported that a shorter washout period (4 versus 7 days) was associated with fewer gastrointestinal adverse events during the final week of galantamine dose escalation, however, this finding was based on a small number of events and would require further investigation to confirm the apparent association.

What does the evidence say?

Number of included studies/reviews (number of participants)

We identified two randomised controlled trials (RCTs) which reported data relevant to this evidence summary. One trial compared abrupt discontinuation of donepezil (10 mg/d) to stepwise discontinuation (5 mg/d for two weeks); concomitant up-titration of memantine to 20 mg/d, over a four week period, was applied to both groups. The second study compared washout periods of four and seven days for donepezil (dose not specified) prior to up-titration of galantamine to 24 mg/d over a four week period. The first study was conducted in people with moderate to severe Alzheimer's disease, and the second study was conducted in people with mild to moderate probable Alzheimer's disease.

Main Findings

Both studies found no clinically or statistically significant differences in measures of efficacy (cognition or clinical impression) between the two groups. ^{1,2} Similarly, there were no apparent differences in overall treatment-emergent adverse event (TEAE) rates between groups, in either study. ^{1,2} The second study reported that the rate of gastrointestinal adverse events at week 4, when the galantamine dose was increased from 16 mg to 24 mg, appeared higher in the seven day washout group than in the four day washout group (9 versus 1); this difference was no longer apparent during the open label-phase. ²

Authors Conclusions

Both studies concluded that the alternative cholinesterase inhibitor, being introduced to replace donepezil, was well tolerated. One study concluded that the AE profile was similar regardless of the method of transition and the other study concluded that, whilst efficacy was similar, use of a shorter washout period (4 days rather than 7) may result in fewer GI AEs.

Reliability of conclusions/Strength of evidence

Both of the studies included in this assessment were poorly reported with respect to study methods, making it impossible to fully assess risk of bias. ^{1,2} The only apparent difference in safety or efficacy observed between different methods of transition from donepezil to other cholinesterase inhibitors was limited to GI AEs in the final phase of galantamine dose escalation. ² This finding was based on a small number of events and would require further investigation to confirm the apparent association with the length of donepezil washout period.

What do guidelines say?

Neither NICE nor SIGN guidelines look at the wash out period of donepezil before initiating on another cholinesterase inhibitor.

Date question received:29/04/2014Date searches conducted:08/05/2014Date answer completed:02/06/2014

References

- Waldemar, G., Hyvarinen, M., Josiassen, M.K., Korner, A., Lehto, H. and Wetterberg, P. (2008) Tolerability of switching from donepezil to memantine treatment in patients with moderate to severe Alzheimer's
- 2. Wilkinson, D.G. and Howe, I. (2005) Switching from donepezil to galantamine: a double-blind study of two wash-out periods. *International Journal of Geriatric Psychiatry 20* pp.489-491.

Results

Randomised controlled trials

Author	Inclusion criteria	Number of	Summary of results	Risk of bias
(year)		participants		
Waldemar	Population:	n=46 (23 in	This study aimed to assess the tolerability, safety and efficacy	The study was
(2008)	Outpatients with moderate to severe	each	of abrupt versus stepwise switching from donepezil to	reported as a
	Alzheimer's disease (DSM-IV TR criteria) an	switching	memantine treatment in patients with moderate-to-severe	research
	MMSE score of ≤ 18 & receiving donepezil	group)	Alzheimer's disease.	letter, with
	for ≥ 6 months preceding screening.			limited details
	People were eligible for the trial if their		There were no apparent differences between the two	of methods.
	clinician judged that the donepezil was		switching groups in age and gender distribution, or baseline	
	failing (also confirmed through change in		Mini Mental State Examination (MMSE) and Clinical Global	No details of
	MMSE score, worsening of behaviour		Impression – Severity (CGI-S) scores.	the
	and/or ADL function).			randomisation
	Intervention:		Withdrawal rates were similar between groups; 2	procedure or
	Abrupt discontinuation of donepezil 10 mg		participants withdrew from the abrupt discontinuation	allocation
	per day (placebo provided for two weeks)		groups dues to an AE and 1 withdrew from the stepwise	concealment
	and concomitant up-titration of		group due to lack of efficacy.	were
	memantine, starting at 5mg/day and			reported.
	increasing by this dose each week to		There were no clinically or statistically significant differences	
	20mg/day at week four.		between the two groups, wither in measures of efficacy or in	All study
	Comparison:		occurrence of TEAEs. Overall, the majority of participants	personnel and
	Stepwise discontinuation (5mg per day for		either improved or stabilised according to the Clinical Global	participants
	two weeks) and concomitant up-titration		Impression – Change (CGI-C) (32/43 (74%)) or MMSE (23/43	were blind to
	of memantine, following the same dosage		(53%)).	the switching
	as the intervention group.			group for the
	Outcomes: Cognition (MMSE and the CGI-			duration of

C) and treatment emergent adverse events		the study.
(TEAE).		
		All
		randomised
		participants,
		who took at
		least one dose
		of memantine
		and had at
		least one valid
		post-baseline
		CGI-C
		assessment,
		were included
		in the efficacy
		analyses.
		Results were
		reported for
		all specified
		outcome
		measures.

Wilkinson	Participants:	n=105 (53 in	This study aimed to assess the optimum length of the	No details of
(2005)	People with mild to moderate probable	the four day	washout period in patients switching from donepezil to	the
	Alzheimer's Disease, who had been taking	washout	galantamine.	randomisation
	donepezil for ≤12 weeks and who were	group and		procedure or
	considered to be in need of alternative	52 in the	Demographic characteristics and baseline MMSE and ADAS-	allocation
	anti-dementia medication. All participants	seven day	cog/11 scores were similar in the two groups.	concealment
	had an MMSE score of 10-25 and an	washout		were
	Alzheimer's Disease Assessment scale	group)	There were 8 discontinuations during the double blind phase;	reported.
	(ADAS-cog/11) total score of ≤12.		3 in the four day washout group and 5 in the seven day	
	Intervention:		washout group. During the open-label phase there were 12	The
	Two week run-in period (continued		further discontinuations in the four day washout group and	washout/dose
	donepezil). Four-week double-blind		14 in the seven day washout group; these were mainly due to	escalation
	washout/dose escalation period; washout		AEs.	period of the
	period of four days, followed by			study was
	commencement of galantamine 4mg		During the double blind phase, there was no apparent	described as
	twice daily, increasing by 8 mg/week 24		difference in overall safety profile between the two groups;	'double blind',
	mg/day by the end of week 4. Open-label		22 participants in the four day washout group and 24 in the	but it was not
	phase for the next 48 weeks.		seven day washout group had at least one treatment-	clear whether
	Comparison:		emergent adverse event or worsening of an ongoing pre-	outcome
	As for intervention, but with a washout		treatment event. The rate of gastrointestinal (GI) AEs at week	assessors
	period of seven days.		4, when the galantamine dose was increased from	were blinded
	Outcomes:		16 mg to 24 mg, appeared higher in the seven day washout	to group
	Alzheimer's Disease Assessment		group than in the four day washout group (9 versus 1); rates	allocation.
	Scale – cognitive subscale (ADAS-cog/11),		of GI AEs were similar between groups during the open-lable	
	discontinuations, adverse events (AEs)		phase. Adverse event rates were low during the open label	It was not
			phase; 5 in the four day washout group versus 2 in the seven	clear whether
			day washout group.	all
				participants
			Changes in ADAS-cog/11 from screening baseline and to the	were included

	end of the double blind phase were <1 point. There was no	in the
	significant difference between the groups in mean change in	analyses.
	ADAS-cog/11 from baseline to the end of the study (week	
	52); 4.9 ± 6.69 in the four-day group and 4.6 ± 6.45 in the	Results were
	seven-day group.	reported for
		all specified
		outcome
		measures.

Risk of Bias

Randomised controlled trials

			RISK C	F BIAS		
Study	Random allocation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective Reporting
Waldemar 2008	3	?	©	©	©	©
Wilkinson 2005	3	3	©	Ś	?	<u> </u>





? Unclear Risk

Search Details

Search Strategy	Number of hits	Relevant evidence identified
idelines		
donepezil	15	0
(donepezil)	49	0
(cholinesterase*)		
MeSH DESCRIPTOR Acetylcholinesterase EXPLODE ALL TREES		
MeSH DESCRIPTOR Cholinesterase Inhibitors EXPLODE ALL TREES		
(taper OR chang* OR switch* OR (wash adj out))		
#1 OR #2 OR #3 OR #4		
#5 AND #6		
(alzheimer*):TI		
(dement*):TI		
MeSH DESCRIPTOR Alzheimer Disease EXPLODE ALL TREES		
MeSH DESCRIPTOR Dementia EXPLODE ALL TREES		
#8 OR #9 OR #10 OR #11		
#7 AND #12		
dies	l	1
#1 MeSH descriptor: [Cholinesterase Inhibitors] explode all trees	25	
845		
#2 donepezil 889		
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	idelines donepezil (donepezil) (cholinesterase*) MeSH DESCRIPTOR Acetylcholinesterase EXPLODE ALL TREES MeSH DESCRIPTOR Cholinesterase Inhibitors EXPLODE ALL TREES (taper OR chang* OR switch* OR (wash adj out)) #1 OR #2 OR #3 OR #4 #5 AND #6 (alzheimer*):TI (dement*):TI MeSH DESCRIPTOR Alzheimer Disease EXPLODE ALL TREES MeSH DESCRIPTOR Dementia EXPLODE ALL TREES #8 OR #9 OR #10 OR #11 #7 AND #12 dies #1 MeSH descriptor: [Cholinesterase Inhibitors] explode all trees 845 #2 donepezil 889 #3 "time frame" or "time period" 4333	idelines donepezil 15 (donepezil) 49 (cholinesterase*) MeSH DESCRIPTOR Acetylcholinesterase EXPLODE ALL TREES MeSH DESCRIPTOR Cholinesterase Inhibitors EXPLODE ALL TREES (taper OR chang* OR switch* OR (wash adj out)) #1 OR #2 OR #3 OR #4 #5 AND #6 (alzheimer*):TI (dement*):TI MeSH DESCRIPTOR Alzheimer Disease EXPLODE ALL TREES MeSH DESCRIPTOR Dementia EXPLODE ALL TREES MeSH DESCRIPTOR Dementia EXPLODE ALL TREES #8 OR #9 OR #10 OR #11 #7 AND #12 dies #1 MeSH descriptor: [Cholinesterase Inhibitors] explode all trees 845 #2 donepezil 889 #3 "time frame" or "time period" 4333 #4 "drug withdrawal" 2949 #5 "wash out" 2787 #6 taper 1955 #7 switch 6097

#10 "drug holiday" 22 #11 discontinu* 16400 #12 #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11		#9 "length of time" 1416		
#11 discontinu* 16400 #12 #3 or #4 or #5 or #6 or #7 or #8 or #9 or #10 or #11 31862 #13 #1 and #2 and #12 42 Central only 25 PsycINFO 1. PsycINFO; exp CHOLINESTERASE INHIBITORS/; 2225 results. 2. PsycINFO; interrate intervention in the state in the				
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11. PsycINFO; switch*.ti,ab; 15958 results. 12. PsycINFO; "switching strategies".ti,ab; 82 results. 13. PsycINFO; discontin*.ti,ab; 15620 results. 14. PsycINFO; (fail* adj3 benefit).ti,ab; 168 results. 15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results. 16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		9. PsycINFO; "time period".ti,ab; 4677 results.		
12. PsycINFO; "switching strategies".ti,ab; 82 results. 13. PsycINFO; discontin*.ti,ab; 15620 results. 14. PsycINFO; (fail* adj3 benefit).ti,ab; 168 results. 15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results. 16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		10. PsycINFO; "drug holiday".ti,ab; 35 results.		
13. PsycINFO; discontin*.ti,ab; 15620 results. 14. PsycINFO; (fail* adj3 benefit).ti,ab; 168 results. 15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results. 16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		11. PsycINFO; switch*.ti,ab; 15958 results.		
14. PsycINFO; (fail* adj3 benefit).ti,ab; 168 results. 15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results. 16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		12. PsycINFO; "switching strategies".ti,ab; 82 results.		
15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results. 16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		13. PsycINFO; discontin*.ti,ab; 15620 results.		
16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results. 17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		14. PsycINFO; (fail* adj3 benefit).ti,ab; 168 results.		
17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results. 18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		15. PsycINFO; (cessation adj3 medication).ti,ab; 116 results.		
18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results. 19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		16. PsycINFO; (cessation adj3 "drug therapy").ti,ab; 11 results.		
19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results. 20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		17. PsycINFO; (stop* adj3 medication).ti,ab; 272 results.		
20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		18. PsycINFO; (stop* adj3 "drug therapy").ti,ab; 6 results.		
20. PsycINFO; 3 OR 4 OR 5 OR 6 OR 7 OR 8 OR 9 OR 10 OR 11 OR 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.		19. PsycINFO; (stop* adj3 donepezil).ti,ab; 7 results.		
OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19; 46478 results. 21. PsycINFO; "time period".ti,ab; 4677 results.				
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		21. PsycINFO; "time period".ti,ab; 4677 results.		
22. PsycINFO; 20 OR 21; 46478 results.		22. PsycINFO; 20 OR 21; 46478 results.		

	23. PsycINFO; 1 AND 2 AND 22; 76 results.		
	24. PsycINFO; CLINICAL TRIALS/; 7531 results.		
	25. PsycINFO; random*.ti,ab; 129036 results.		
	26. PsycINFO; groups.ti,ab; 365146 results.		
	27. PsycINFO; (double adj3 blind).ti,ab; 17791 results.		
	28. PsycINFO; (single adj3 blind).ti,ab; 1399 results.		
	29. PsycINFO; EXPERIMENTAL DESIGN/; 9071 results.		
	30. PsycINFO; controlled.ti,ab; 80247 results.		
	31. PsycINFO; (clinical adj3 study).ti,ab; 7891 results.		
	32. PsycINFO; trial.ti,ab; 67940 results.		
	33. PsycINFO; "treatment outcome clinical trial".md; 26815 results.		
	34. PsycINFO; 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31 OR 32		
	OR 33; 565120 results.		
	35. PsycINFO; 23 AND 34; 34 results.		
Embase	22. EMBASE; donepezil.ti,ab; 3161 results.	166	
	23. EMBASE; INTERRESPONSE TIME/; 1 results.		
	24. EMBASE; "time frame".ti,ab; 8914 results.		
	25. EMBASE; DRUG WITHDRAWAL/; 110609 results.		
	26. EMBASE; "wash out".ti,ab; 6134 results.		
	27. EMBASE; taper.ti,ab; 3632 results.		
	28. EMBASE; "length of time".ti,ab; 10084 results.		
	29. EMBASE; "time period".ti,ab; 33533 results.		
	30. EMBASE; "drug holiday".ti,ab; 261 results.		
	31. EMBASE; switch*.ti,ab; 112686 results.		
	32. EMBASE; "switching strategies".ti,ab; 126 results.		
	33. EMBASE; discontin*.ti,ab; 112887 results.		
	34. EMBASE; (fail* adj3 benefit).ti,ab; 1159 results.		
	35. EMBASE; (cessation adj3 medication).ti,ab; 555 results.		
	36. EMBASE; (cessation adj3 "drug therapy").ti,ab; 86 results.		

	37. EMBASE; (stop* adj3 medication).ti,ab; 1490 results.		
	38. EMBASE; (stop* adj3 "drug therapy").ti,ab; 65 results.		
	39. EMBASE; (stop* adj3 donepezil).ti,ab; 11 results.		
	40. EMBASE; 23 OR 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31		
	OR 32 OR 33 OR 34 OR 35 OR 36 OR 37 OR 38 OR 39; 375883 results.		
	41. EMBASE; random*.ti,ab; 863047 results.		
	42. EMBASE; factorial*.ti,ab; 22507 results.		
	43. EMBASE; (crossover* OR cross-over*).ti,ab; 67695 results.		
	44. EMBASE; placebo*.ti,ab; 194986 results.		
	45. EMBASE; (doubl* ADJ blind*).ti,ab; 139045 results.		
	46. EMBASE; (singl* ADJ blind*).ti,ab; 14074 results.		
	47. EMBASE; assign*.ti,ab; 233500 results.		
	48. EMBASE; allocat*.ti,ab; 81589 results.		
	49. EMBASE; volunteer*.ti,ab; 172804 results.		
	50. EMBASE; CROSSOVER PROCEDURE/; 38658 results.		
	51. EMBASE; DOUBLE BLIND PROCEDURE/; 112848 results.		
	52. EMBASE; RANDOMIZED CONTROLLED TRIAL/; 340479 results.		
	53. EMBASE; SINGLE BLIND PROCEDURE/; 18159 results.		
	54. EMBASE; 41 OR 42 OR 43 OR 44 OR 45 OR 46 OR 47 OR 48 OR 49		
	OR 50 OR 51 OR 52 OR 53; 1380418 results.		
	55. EMBASE; 21 AND 22 AND 40; 399 results.		
	56. EMBASE; 54 AND 55; 166 results.		
Medline	21. MEDLINE; exp CHOLINESTERASE INHIBITORS/; 41640 results.	120	
	22. MEDLINE; donepezil.ti,ab; 2208 results.		
	23. MEDLINE; INTERRESPONSE TIME/; 0 results.		
	24. MEDLINE; "time frame".ti,ab; 6826 results.		
	25. MEDLINE; DRUG WITHDRAWAL/; 0 results.		
	26. MEDLINE; "wash out" ti,ab; 4787 results.		
	27. MEDLINE; taper.ti,ab; 3092 results.		
	28. MEDLINE; "length of time".ti,ab; 8894 results.		

sebo.ab; 153577 results. Ig therapy".fs; 1694666 results. Idomly.ab; 211913 results. .ab; 303781 results. Ips.ab; 1349786 results. IDR 45 OR 46 OR 47 OR 48 OR 49 OR 50 OR 51; AND 52; 120 results.		
ug therapy".fs; 1694666 results. domly.ab; 211913 results. .ab; 303781 results. ups.ab; 1349786 results.		
ug therapy".fs; 1694666 results. domly.ab; 211913 results. .ab; 303781 results. ups.ab; 1349786 results.		
ug therapy".fs; 1694666 results. domly.ab; 211913 results. .ab; 303781 results. ups.ab; 1349786 results.		
ng therapy".fs; 1694666 results. domly.ab; 211913 results. .ab; 303781 results.		
ig therapy".fs; 1694666 results.		
•		
ebo.ab; 153577 results.	1	
domized.ab; 292550 results.		
ntrolled clinical trial".pt; 88303 results.		
ndomized controlled trial".pt; 372783 results.		
AND 22 AND 42; 126 results.		
DR 41; 238861 results.		
UG WITHDRAWAL".ti,ab; 2684 results.		
4 OR 35 OR 36 OR 37 OR 38 OR 39; 236519 results.		
OR 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31		
p* adj3 donepezil).ti,ab; 5 results.		
p* adj3 "drug therapy").ti,ab; 57 results.		
p* adj3 medication).ti,ab; 987 results.		
sation adj3 "drug therapy").ti,ab; 77 results.		
sation adj3 medication).ti,ab; 424 results.		
* adj3 benefit).ti,ab; 861 results.		
ontin*.ti,ab; 88076 results.		
•		
t	ne period".ti,ab; 25248 results. ug holiday".ti,ab; 173 results. tch*.ti,ab; 101010 results. vitching strategies".ti,ab; 96 results.	ug holiday".ti,ab; 173 results. tch*.ti,ab; 101010 results.

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