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부 록 1

Cholinesterase inhibitor 및 memantine 검색전략

부록 1 Cholinesterase inhibitor 및 memantine 검색전략

가) 국외 체계적 문헌고찰 검색 전략

1) ovidMedline Systematic Review 검색 전략

연번	검색어	검색결과
#1	Meta-Analysis as Topic/	9740
#2	meta analy\$.tw.	26482
#3	metaanaly\$.tw.	900
#4	Meta-Analysis/	23124
#5	(systematic adj (review\$1 or overview\$1)).tw.	19648
#6	exp Review Literature as Topic/	4503
#7	1 or 2 or 3 or 4 or 5 or 6	56210
#8	cochrane.ab.	12558
#9	embase.ab.	10133
#10	(psychlit or psyclit).ab.	801
#11	(psychinfo or psycinfo).ab.	2966
#12	(cinahl or cinhal).ab.	3992
#13	science citation index.ab.	1063
#14	bids.ab.	278
#15	cancerlit.ab.	458
#16	8 or 9 or 10 or 11 or 12 or 13 or 14 or 15	19278
#17	reference list\$.ab.	4999
#18	bibliograph\$.ab.	8024
#19	hand-search\$.ab.	2229
#20	relevant journals.ab.	396
#21	manual search\$.ab.	1235
#22	17 or 18 or 19 or 20 or 21	15172
#23	selection criteria.ab.	12070
#24	data extraction.ab.	5536
#25	23 or 24	16678
#26	Review/	149824
#27	25 and 26	11226
#28	Comment/	398425
#29	Letter/	669087
#30	Editorial/	247397
#31	animal/	4518625
#32	human/	11064433
#33	31 not (31 and 32)	11699
#34	28 or 29 or 30 or 33	991875
#35	7 or 16 or 22 or 27	73461
#36	35 not 34	68884
#37	vascular dementia.mp. or exp Dementia, Vascular/	5595
#38	Dementia, Multi-Infarct/ or multi infarct.mp.	1648
#39	37 or 38	6058

연번	검색어	검색결과
#40	donepezil {Including Related Terms}	1411
#41	e2020 {Including Related Terms}	79
#42	aricept {Including Related Terms}	1411
#43	galantamine {Including Related Terms}	1156
#44	galanthamine {Including Related Terms}	347
#45	reminyl {Including Related Terms}	1156
#46	rivastigmine {Including Related Terms}	706
#47	exelon {Including Related Terms}	706
#48	sdz ena 713 {Including Related Terms}	18
#49	memantine {Including Related Terms}	1388
#50	d-145 {Including Related Terms}	87
#51	dmaa {Including Related Terms}	397
#52	drg 0267 {Including Related Terms}	9668
#53	ebixa {Including Related Terms}	1388
#54	axura {Including Related Terms}	5
#55	namenda {Including Related Terms}	1388
#56	or/40-55	14142
#57	39 and 56 and 36	27

2) EMBASE Systematic Review 검색 전략

연번	검색어	검색결과
#1	'meta analysis'/exp	44,801
#2	meta*analy*:ab,ti OR metaanalys*:ab,ti	1,645
#3	systematic*:ab,ti AND review*:ab,ti OR (systematic*:ab,ti AND overview*:ab,ti)	37,867
#4	1 or 2 or 3	76,910
#5	cancerlit:ab	528
#6	cochrane:ab	14,661
#7	embase:ab	11,613
#8	psychlit:ab OR psyclit:ab	852
#9	psychinfo:ab OR psycinfo:ab	2,877
#10	cinahl:ab OR cinhal:ab	4,398
#11	'science citation index':ab	1,219
#12	bids:ab	331
#13	5 or 6 or 7 or 8 or 9 or 10 or 11 or 12	21,661
#14	'reference lists':ab	5,185
#15	bibliograph*:ab	10,280
#16	hand*search*:ab	1,010
#17	manual AND search*:ab	3,266
#18	'relevant journals':ab	465
#19	13 or 14 or 15 or 16 or 17 or 18	18,490
#20	'data extraction':ab	7,367
#21	'selection criteria':ab	13,725
#22	20 or 21	20,025
#23	review:it	1,552,254
#24	22 and 23	12,983
#25	letter:it	667,685

연번	검색어	검색결과
#26	editorial:it	327,815
#27	'human'/exp	11,433,450
#28	'animal'/exp	1,579,078
#29	28 NOT (28 AND 27)	1,203,043
#30	25 or 26 or 29	2,186,814
#31	4 or 13 or 19 or 24	99,512
#32	31 not 30	95,152
#33	'vascular dementia'/exp OR 'vascular dementia'	6,763
#34	multi*infarct AND ('dementia'/exp OR dementia)	5,678
#35	33 or 34	6,817
#36	'donepezil'/exp or donepezil	5,461
#37	'e2020'/exp OR e2020	5,352
#38	'aricept'/exp OR aricept	5,356
#39	'galantamine'/exp OR galantamine	3,593
#40	'galanthamine'/exp OR galanthamine	3,567
#41	'reminyl'/exp OR reminyl	3,536
#42	'rivastigmine'/exp OR rivastigmine	3,318
#43	'exelon'/exp OR exelon	3,249
#44	'sdz ena 713'/exp OR 'sdz ena 713'	3,245
#45	'memantine'/exp OR memantine	3,662
#46	'd 145'/exp OR 'd 145'	3,595
#47	dmaa	257
#48	'drg 0267'	2
#49	'ebixa'/exp OR ebixa	3,558
#50	'axura'/exp OR axura	3,558
#51	'namenda'/exp OR namenda	3,559
#52	36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51	10,552
#53	32 and 35 and 53	64

3) Cochrane library Systematic Review 검색전략

연번	검색어	검색결과
#1	MeSH descriptor Dementia, Vascular explode all trees	245
#2	MeSH descriptor Dementia, Multi-Infarct explode all trees	61
#3	1 or 2	245
#4	(donepezil):ti,ab,kw	598
#5	(E2020):ti,ab,kw	39
#6	(aricept):ti,ab,kw	36
#7	(galantamine):ti,ab,kw	303
#8	(galanthamine):ti,ab,kw	35
#9	(reminyl):ti,ab,kw	28
#10	(rivastigmine):ti,ab,kw	296
#11	(Exelon):ti,ab,kw	41
#12	(SDZ-ENA-713):ti,ab,kw	9
#13	(memantine):ti,ab,kw	250
#14	(D-145):ti,ab,kw	3
#15	(DMAA):ti,ab,kw	4
#16	(DRG-0267):ti,ab,kw	1

연번	검색어	검색결과
#17	(ebixa):ti,ab,kw	10
#18	(axura):ti,ab,kw	3
#19	(namenda):ti,ab,kw	4
#20	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 18	1282
#21	1 and 20 limit to review	15

4) CRD database

연번	검색어	검색결과
#1	MeSH Dementia, Vascular/Exp	15
#2	donepezil	78
#3	E2020	4
#4	aricept	8
#5	galantamine	48
#6	galanthamine	5
#7	reminyl	6
#8	rivastigmine	55
#9	Exelon	6
#10	SDZ-ENA-713	2
#11	memantine	34
#12	D-145	0
#13	DMAA	0
#14	DRG-0267	0
#15	ebixa	2
#16	axura	0
#17	namenda	0
#18	2 or 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	130
#19	18 and 1	5

나) 국외 추가 검색 전략

1) ovidMedline RCT 검색 전략

연번	검색어	검색결과
#1	exp dementia/ or exp cognition disorders/	120437
#2	(dementia* or cognit* or alzheimer*).mp.	252065
#3	randomized controlled trial.pt.	294195
#4	controlled clinical trial.pt.	83649
#5	randomized.ab.	198731
#6	placebo.ab.	121430
#7	drug therapy.fs.	1398870
#8	randomly.ab.	143002
#9	groups.ab.	972453
#10	trial.ab.	206064
#11	10 or 11 or 12 or 13 or 14 or 15 or 16 or 17	2564662
#12	(animals not (humans and animals)).sh.	3432406

연번	검색어	검색결과
#13	11 not 12	2177961
#14	1 or 2	263310
#15	donepezil {Including Related Terms}	1494
#16	e2020 {Including Related Terms}	84
#17	aricept {Including Related Terms}	1494
#18	galanthamine {Including Related Terms}	355
#19	galantamine {Including Related Terms}	1187
#20	remynil {Including Related Terms}	1187
#21	rivastigmine {Including Related Terms}	740
#22	sdz ena 713 {Including Related Terms}	18
#23	memantine {Including Related Terms}	1445
#24	d-145 {Including Related Terms}	90
#25	dmaa {Including Related Terms}	405
#26	drg 0267 {Including Related Terms}	9823
#27	ebixa {Including Related Terms}	1445
#28	axura {Including Related Terms}	6
#29	namenda {Including Related Terms}	1445
#30	15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28	14481
#31	#13 and #14 and #29	2130
#32	limit 36 to yr="2006 -Current"	885

2) Embase RCT 검색 전략

연번	검색어	검색결과
1	'cognitive disorder'/exp OR 'cognitive disorder'	54,610
2	'cognitive impairment'/exp OR 'cognitive impairment'	60,071
3	'dementia'/exp OR 'dementia'	156,908
4	'mild cognitive impairment'/exp OR 'mild cognitive impairment'	3,794
5	'cognitive defect'/exp OR 'cognitive defect'	54,510
6	'alzheimer disease'/exp OR 'alzheimer disease' OR 'alzheimer'	80,045
7	1 or 2 or 3 or 4 or 5 or 6	198,960
8	'controlled clinical trial'/exp OR 'controlled clinical trial'	349,431
9	randomized:ab	218,844
10	placebo:ab	133,674
11	randomly:ab	162,587
12	trials:ab	237,363
13	groups:ab	1,102,803
14	#8 or #9 or #10 or #11 or #12 or #13	1,669,641
15	#14 AND [humans]/lim	1,156,564
16	#16 AND [embase]/lim	902,958
17	'donepezil'/exp OR 'donepezil'	5,622
18	'e2020'/exp OR 'e2020'	5,512
19	'aricept'/exp OR 'aricept'	5,516
20	'galanthamine'/exp OR 'galanthamine'	3,653
21	'galantamine'/exp OR 'galantamine'	3,677

연번	검색어	검색결과
22	'reminyl'/exp OR 'reminyll'	3,621
23	'rivastigmine'/exp OR 'rivastigmine'	3,406
24	'sdz ena 713'/exp OR 'sdz ena 713'	3,333
25	'memantine'/exp OR 'memantine'	3,798
26	'd-145'/exp OR 'd-145'	3,728
27	'dmaa'	263
28	'drg 0267'	2
29	'ebixa'/exp OR 'ebixa'	3,691
30	'axura'/exp OR 'axura'	3,691
31	'namenda'/exp OR 'namenda'	3,692
32	17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31	10,853
33	7 and 14 and 32	1725
34	#33 and [2006-2010]/py	782

3) Cochrane Library RCT 검색 전략

연번	검색어	검색결과
1	MeSH descriptor Dementia explode all trees	2377
2	MeSH descriptor Cognition Disorders explode all trees	1634
3	(dementia* or cognit* or alzheimer*)	22318
4	donepezil	521
5	e2020	31
6	aricept	28
7	galanthamine	25
8	galantamine	241
9	reminyl	20
10	rivastigmine	213
11	sdz ena 713	9
12	memantine	223
13	d-145	2
14	dmaa	2
15	drg 0267	0
16	ebixa	3
17	axura	2
18	namenda	3
19	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	1164
20	1 or 2 or 3	22393
21	19 and 20	996
22	21 from 2006	276

4) PsycInfo

연번	검색어	검색결과
1	MeSH Dementia	17009
2	MeSH Cognitive Impairment	11577
3	dementia* OR cognit* OR alzheimer*	425477
4	1 or 2 or 3	425477
5	donepezil	775

연번	검색어	검색결과
6	e2020	16
7	aricept	32
8	galanthamine	219
9	galantamine	325
10	reminyl	8
11	rivastigmine	351
12	sdz ena 713	6
13	memantine	467
14	d-145	3
15	dmaa	6
16	drg 0267	1
17	ebixa	2
18	axura	1
19	namenda	6
20	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	1625
21	4 and 20 limit to journal	1282
22	21 from 2006	556

다) 국내 검색 전략

각 DB의 특성에 따라 아래 검색어를 변경하면서 검색하였다. donepezil, galantamine, rivastigmine, memantine과 cognitive, cognition (인지), dementia(치매)를 검색어로 사용하였다.

1) Koreamed

연번	검색어	검색결과
#1	dementia	619
#2	cognitive	1211
#3	cognition	285
#4	#1 or #2 or #3	1695
#5	donepezil	16
#6	aricept	3
#7	#5 or #6	136
#8	#4 and #7	8

연번	검색어	검색결과
#1	dementia	619
#2	cognitive	1211
#3	cognition	285
#4	#1 or #2 or #3	1695
#5	Rivastigmine	4
#6	#4 and #5	3

연번	검색어	검색결과
#1	dementia	619
#2	cognitive	1211
#3	cognition	285

#4	#1 or #2 or #3	1695
#5	memantine	11
#6	#4 and #5	6
연번	검색어	검색결과
#1	dementia	619
#2	cognitive	1211
#3	cognition	285
#4	#1 or #2 or #3	1695
#5	galantamine	5
#6	galanthamine	1
#7	#5 or #6	6
#8	#4 and #7	3

2) 국회도서관

연번	검색어	검색결과
#1	donepezil	18
#2	도네페질	5
#3	아리셉트	3
#4	돈페질	1
#5	#1 or #2 or #3 or #4	20
#6	치매	1420
#7	인지	10909
#8	#6 or #7	12125
#9	#5 and #8	9

연번	검색어	검색결과
#1	rivastigmine	2
#2	레미닐	0
#3	reminyl	0
#4	#1 or #2 or #3	2
#5	치매	1420
#6	인지	10909
#7	#5 or #6	12125
#8	#4 and #7	1

연번	검색어	검색결과
#1	galantamine	5
#2	galanthamine	1
#3	#1 or #2	6
#4	치매	1420
#5	인지	10909
#6	#4 or #5	12125
#7	#3 and #6	2

연번	검색어	검색결과
#1	memantine	13
#2	메만틴	4
#3	#1 or #2	15
#4	치매	1420
#5	인지	10909
#6	#4 or #5	12125
#7	#3 and #6	4

3) 한국의학논문데이터베이스검색

연번	검색어	검색결과
#1	aricept	4
#2	아리셉트	2
#3	donepezil	29
#4	도네페질	3
#5	#1 or #2 or #3 or #4	30
#6	치매	71273
#7	인지	4499
#8	#6 or #7	74222
#9	#5 and #8	7

연번	검색어	검색결과
#1	rivastigmine	12
#2	레미닐	0
#3	reminyl	1
#4	#1 or #2 or #3	12
#5	치매	71273
#6	인지	4499
#7	#6 or #7	74222
#8	#4 and #7	3

연번	검색어	검색결과
#1	galantamine	9
#2	galanthamine	6
#3	#1 or #2	15
#4	치매	71273
#5	인지	4499
#6	#4 or #5	74222
#7	#3 and #6	2

연번	검색어	검색결과
#1	memantine	21
#2	메만틴	3
#3	#1 or #2	21
#4	치매	71273
#5	인지	4499
#6	#4 or #5	74222
#7	#3 and #6	2

4) NDSL

연번	검색어	검색결과
#1	donepezil	1989
#2	도네페질	2
#3	돈페질	1
#4	aricept	167
#5	아리셉트	1
#6	#1 or #2 or #3 or #4 or #5	2063
#7	치매	412
#8	인지	3998
#9	#7 or #8	4350

연번	검색어	검색결과
#10	#6 and #9	3

연번	검색어	검색결과
#1	rivastigmine	893
#2	레미닐	0
#3	reminyl	61
#4	#1 or #2 or #3	946
#5	치매	412
#6	인지	3998
#7	#5 or #6	4350
#8	#4 and #7	0

연번	검색어	검색결과
#1	galantamine	832
#2	galanthamine	529
#3	#1 or #2	1351
#4	치매	412
#5	인지	3998
#6	#4 or #5	4350
#7	#3 and #6	0

연번	검색어	검색결과
#1	memantine	1578
#2	메만틴	1
#3	#1 or #2	1578
#4	치매	412
#5	인지	3998
#6	#4 or #5	4350
#7	#3 and #6	1

5) 한국교육학술정보원

연번	검색어	검색결과
#1	donepezil	14
#2	돈페질	1
#3	아리셉트	2
#4	aricept	4
#5	#1 or #2 or #3 or #4	15
#6	치매	1403
#7	인지	18108
#8	#6 or #7	19229
#9	#5 and #8	4

연번	검색어	검색결과
#1	Rivastigmine	4
#2	Reminyl	0
#3	레미닐	0
#4	치매	1403
#5	인지	18108
#6	#4 or #5	19229
#7	#6 and #1	1

연번	검색어	검색결과
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#1	Memantine	10
#2	메만틴	1
#3	치매	1403
#4	인지	18108
#5	#3 or #4	19229
#6	#1 or #2	11
#7	#5 and #6	3
연번	검색어	검색결과
#1	galantamine	0
#2	galanthamine	4
#3	#1 or #2	4
#4	치매	1403
#5	인지	18108
#6	#4 or #5	19229
#7	#3 and #6	0

부 록 2

Ginkgo Biloba 검색전략

부록 2 Ginkgo Biloba 검색전략

가) 국외 체계적 문헌고찰 검색 전략

1) Ovid Systematic Review 검색 전략

연번	검색어	검색결과
#1	exp dementia/ or exp cognition disorders/	117639
#2	(dementia* or cognit* or alzheimer*).mp.	245381
#3	ginkgo*.mp.	2974
#4	gingko*.mp.	215
#5	tanakan.mp.	57
#6	egb761.mp.	77
#7	1 or 2	256382
#8	3 or 4 or 5 or 6	3059
#9	7 and 8	449
#10	limit to systematic reviews	40

2) EMBASE Systematic Review 검색 전략

연번	검색어	검색결과
1	'meta analysis'/exp OR 'meta analysis'	55947
2	'systematic review'/exp OR 'systematic review'	39537
3	review*:ti	214,663
4	overview*:ti	26,728
5	cancerlit:ab OR cochrane:ab OR embase:ab OR psychlit:ab OR psychlit:ab OR psychinfo:ab OR PsycInfo:ab OR cinahl:ab OR cinhal:ab OR science:ab AND citation:ab AND index:ab OR bias:ab	49,885
6	'data extraction' OR 'selection criteria':ab	21,214
7	review:it	1,558,236
8	letter:it OR editorial:it	999,502
9	6 and 7	13471
10	'animals'/exp	1,583,720
11	'humans'/exp	11,471,639
12	'animals'/exp NOT ('animals'/exp AND 'humans'/exp)	1,206,102
13	#8 OR #12	2,193,843
14	#1 OR #2 OR #3 OR #4 OR #5 OR #9	351,605
15	#14 NOT #13	334,660
16	ginkgo*	7,093
17	gingko*	336
18	'tanakan'/exp OR 'tanakan'	4,432
19	'egb761'/exp OR 'egb761'	4,416
20	'cognitive disorder'/exp OR 'cognitive disorder'	53,383
21	'cognitive impairment'/exp OR 'cognitive impairment'	58,612
22	'dementia'/exp OR 'dementia'	154,384
23	'mild cognitive impairment'/exp OR 'mild cognitive	3,545

연번	검색어	검색결과
	impairment'	
24	'cognitive defect'/exp OR 'cognitive defect'	53,285
25	'alzheimer disease'/exp OR 'alzheimer disease' OR 'alzheimer'	92,286
26	#20 OR #21 OR #22 OR #23 OR #24 OR #25	204,336
27	#16 OR #17 OR #18 OR #19	7,140
28	#15 AND #26 AND #27	158

3) Cochrane library

연번	검색어	검색결과
1	MeSH descriptor Dementia explode all trees	2965
2	MeSH descriptor Cognition Disorders explode all trees	1795
3	(dementia* or cognit* or alzheimer*)	25244
4	(ginkgo*)	585
5	(gingko*)	81
6	(tanakan)	25
7	(egb761)	25
8	(#1 OR #2 OR #3)	25334
9	(#4 OR #5 OR #6 OR #7)	639
10	(#8 AND #9) limit to Cochrane Reviews or Other Reviews	30

4) CRD database

연번	검색어	검색결과
1	MeSH Dementia EXPLODE 1 2	521
2	MeSH Cognitive Therapy EXPLODE 1	377
3	dementia* OR cognit* OR alzheimer*	1800
4	ginkgo*	32
5	gingko*	14
6	tanakan	2
7	egb761	2
8	#1 or #2 or #3	1973
9	#4 or #5 or #6 or #7	39
10	#8 and #9	17

나) 추가 국외 문헌 검색 전략

1) Ovid RCT 검색 전략

연번	검색어	검색결과
#1	exp dementia/ or exp cognition disorders/	120437
#2	(dementia* or cognit* or alzheimer*).mp.	252065
#3	ginkgo*.mp.	3040
#4	gingko*.mp.	225
#5	tanakan.mp.	57

연번	검색어	검색결과
#6	egb761.mp.	78
#7	1 or 2	263310
#8	3 or 4 or 5 or 6	3131
#9	7 and 8	460
#10	randomized controlled trial.pt.	294195
#11	controlled clinical trial.pt.	83649
#12	randomized.ab.	198731
#13	placebo.ab.	121430
#14	drug therapy.fs.	1398870
#15	randomly.ab.	143002
#16	groups.ab.	972453
#17	trial.ab.	206064
#18	10 or 11 or 12 or 13 or 14 or 15 or 16 or 17	2564662
#19	(animals not (humans and animals)).sh.	3432406
#20	18 not 19	2177961
#21	9 and 20	304
#22	limit 21 to yr="2006 -Current"	92

2) EMBASE RCT 검색 전략

연번	검색어	검색결과
1	'cognitive disorder'/exp OR 'cognitive disorder'	54,606
2	'cognitive impairment'/exp OR 'cognitive impairment'	60,071
3	'dementia'/exp OR 'dementia'	156,899
4	'mild cognitive impairment'/exp OR 'mild cognitive impairment'	3,794
5	'cognitive defect'/exp OR 'cognitive defect'	54,506
6	'alzheimer disease'/exp OR 'alzheimer disease' OR 'alzheimer'	94,038
7	1 or 2 or 3 or 4 or 5 or 6	207,947
8	'controlled clinical trial'/exp OR 'controlled clinical trial'	349,404
9	randomized:ab	218,821
10	placebo:ab	133,661
11	randomly:ab	162,572
12	trials:ab	237,336
13	groups:ab	1,102,700
14	#8 OR #9 OR #10 OR #11 OR #12 OR #13	1,669,490
15	#14 AND [humans]/lim	1,156,509
16	#15 AND [embase]/lim	902,903
17	'egb761'/exp OR 'egb761'	4,487
18	'tanakan'/exp OR 'tanakan'	4,502
19	gingko*	343
20	ginkgo*	7,191
21	17 OR #18 OR #19 OR #20	7,239
22	#7 and #16 and #21	333
23	#22 AND [2006-2010]/py	128

3) Cochrane library

연번	검색어	검색결과
1	MeSH descriptor Dementia explode all trees	2377
2	MeSH descriptor Cognition Disorders explode all trees	1634
3	(dementia* or cognit* or alzheimer*)	22318
4	(ginkgo*)	521
5	(gingko*)	58
6	(tanakan)	19
7	(egb761)	19
8	(#1 OR #2 OR #3)	22393
9	(#4 OR #5 OR #6 OR #7)	639
10	(#8 AND #9) limit to 2006-2010	28

4) PsycInfo

연번	검색어	검색결과
1	MeSH Dementia	17009
2	MeSH Cognitive Impairment	11577
3	dementia* OR cognit* OR alzheimer*	425477
4	ginkgo*	266
5	gingko*	45
6	tanakan	2
7	egb761	71
8	#1 or #2 or #3	425477
9	#4 or #5 or #6 or #7	564
10	#8 and #9	181
11	#10 limit to Journal	173
12	#10 from 2006	51

부 록 3

컴퓨터 보조 인지 치료(CACI) 관련 검색전략

가) 국외 문헌 검색 전략

1) Psychinfo (1806-)

연번	검색어	검색결과
1	exp dementia/	36868
2	exp Cognitive Impairment/ (dementia* or cognit* or alzheimer*).mp. [mp=title,	11890
3	abstract, heading word, table of contents, key concepts]	332206
4	exp Internet/	11923
5	exp Computers/	9326
6	exp online therapy/	525
7	exp Microcomputers/	1115
8	exp Computer Software/ (Com-Cog or ComCog or Reha-Com or RehaCom or	8685
9	PSSCogREHab).mp. (internet* or online* or microcomputer* or software* or	3
10	computer*).mp.	88275
11	8 or 6 or 4 or 7 or 10 or 9 or 5	89188
12	1 or 3 or 2	332450
13	11 and 12	14700
14	double-blind.tw.	14050
15	random: assigned.tw.	17909
16	control.tw.	230504
17	14 or 15 or 16	253055
18	17 and 13	2227

2) Ovid-medline (1950-)

연번	검색어	검색결과
1	exp dementia/ or exp cognition disorders/ (dementia* or cognit* or alzheimer*).mp.	117639
2		245381
3	1 or 2	256382
4	exp Internet/ or exp Online Systems/ or exp Microcomputers/ or online.mp. or exp Computers/ (Com-Cog or ComCog or Reha-Com or RehaCom or	112738
5	PSSCogREHab).mp.	4
6	exp Software/ (internet* or online* or microcomputer* or software* or computer*).mp. [mp=title, original title, abstract,	78061
7	name of substance word, subject heading word, unique identifier]	509983
8	4 or 5 or 6 or 7	516038
9	randomized controlled trial.pt.	284107
10	controlled clinical trial.pt.	81063
11	randomized.ab.	192009

연번	검색어	검색결과
12	placebo.ab.	116733
13	clinical trials as topic.sh.	147275
14	randomly.ab.	139041
15	trial.ti.	83643
16	9 or 10 or 11 or 12 or 13 or 14 or 15	659998
17	(animals not (humans and animals)).sh.	3377684
18	14 not 15	611986
19	3 and 8 and 18	1331

3) Embase

연번	검색어	검색결과
1	'cognitive disorder'/exp OR 'cognitive disorder'	53,381
2	'cognitive impairment'/exp OR 'cognitive impairment'	58,610
3	'dementia'/exp OR 'dementia'	154,376
4	'mild cognitive impairment'/exp OR 'mild cognitive impairment'	3,545
5	'cognitive defect'/exp OR 'cognitive defect'	53,283
6	'alzheimer disease'/exp OR 'alzheimer disease' OR 'alzheimer'	92,279
7	#1 OR #2 OR #3 OR #4 OR #5 OR #6	204,326
8	'internet'/exp OR 'online system'/exp OR 'computer'/exp OR 'microcomputer'/exp OR 'computer program'/exp	209,115
9	'com-cog' OR 'comcog' OR 'reha-com' OR 'reha-com' OR 'psscogrehab'	7
10	internet* OR online* OR microcomputer* OR software* OR computer* OR 'computer program'/exp OR 'computer program'	1,279,226
11	#8 OR #9 OR #10	1,279,227
12	'controlled clinical trial'/exp	342,570
13	randomized:ab	214,389
14	placebo:ab	131,622
15	randomly:ab	159,871
16	trials:ab	232,395
17	groups:ab	1,086,765
18	#12 OR #13 OR #14 OR #15 OR #16 OR #17	1,643,646
19	#21 AND [humans]/lim	1,142,678
20	#22 AND [embase]/lim	891,266
21	#7 AND #11 AND #20	2,565

4) Cochrane Library

연번	검색어	검색결과
1	MeSH descriptor Dementia explode all trees	2965
2	MeSH descriptor Cognition Disorders explode all trees	1795
3	(dementia* or cognit* or alzheimer*)	1454
4	MeSH descriptor Internet explode all trees	706

연번	검색어	검색결과
5	MeSH descriptor Computers explode all trees	792
6	MeSH descriptor Software explode all trees	1175
7	MeSH descriptor Online Systems explode all trees	335
8	MeSH descriptor Microcomputers explode all trees	261
9	(Com-Cog or ComCog or Reha-Com or RehaCom or PSSCogREHab)	2
10	(internet* or online* or microcomputer* or software* or computer*)	23922
11	1 or 2 or 3	25334
12	#4 or #5 or #6 or #7 or #8 or #9 or #10	24250
13	#11 and #12	2523
14	#13 restrict by Clinical Trials	1156

나) 국내 문헌 검색 전략

데이터베이스	검색어	검색결과
Koreamed	computer dementia	8
	alzheimer computer	3
	cognitive computer	18
	cognitive rehabilitation	131
	dementia rehabilitation	16
	alzheimer rehabilitation	2
	소계	178
국회도서관	치매 컴퓨터-학술지	0
	알쯔하이머 컴퓨터	0
	알츠하이머 컴퓨터	0
	인지 컴퓨터	11
	인지 재활	55
	알쯔하이머 재활	0
	알츠하이머 재활	0
	치매 재활	6
소계	72	
Kmbase	치매 and 컴퓨터	53
	인지 and 컴퓨터	10
	인지 and 재활	29
	알쯔하이머 컴퓨터	1
	알츠하이머 컴퓨터	0
	알쯔하이머 재활	0
	알츠하이머 재활	0
	치매 재활	202
소계	295	
NDSL	TI:(치매 컴퓨터)	0
	TI:(알쯔하이머 컴퓨터)	0
	TI:(알츠하이머 컴퓨터)	0
	TI:(인지 재활)	11
	TI:(치매 재활)	0

데이터베이스	검색어	검색결과
	TI:(알쯔하이머 재할)	0
	TI:(알츠하이머 재할)	0
	TI:(인지 컴퓨터)	10
	소계	21
한국 교육 학술 정보원(KERIS)	TI:(인지 재할)	30
	TI:(치매 컴퓨터)	1
	TI:(알쯔하이머 컴퓨터)	0
	TI:(알쯔하이머 컴퓨터)	0
	TI:(치매 재할)	7
	TI:(인지 컴퓨터)	49
	TI:(알쯔하이머 재할)	0
	TI:(알츠하이머 재할)	0
	소계	87

부 록 4

치매 선별 검진 검색전략

가) 국외 문헌 검색

1) ovidMediline 검색 전략

연번	검색어	검색결과
#1	exp dementia/ or exp cognition disorders/	120437
#2	(dementia* or cognit* or alzheimer*).mp.	252065
#7	1 or 2	263310

2) EMBASE RCT 검색 전략

연번	검색어	검색결과
1	'cognitive disorder'/exp OR 'cognitive disorder'	53,357
2	'cognitive impairment'/exp OR 'cognitive impairment'	58,581
3	'dementia'/exp OR 'dementia'	154,334
4	'mild cognitive impairment'/exp OR 'mild cognitive impairment'	3,541
5	'cognitive defect'/exp OR 'cognitive defect'	53,259
6	'alzheimer disease'/exp OR 'alzheimer disease' OR 'alzheimer'	92,149
7	1 or 2 or 3 or 4 or 5 or 6	204,326

부 록 5

치매 관련 Scale 정리

1. 치매 관련 Scale 정리³⁾

Outcome Measure Index

Acronym/ Abbreviation	Test name	Level of Impairment with higher score	Domain	Score
ADAS-Cog	Cognitive Sections	High	General cognitive function	0-70
ADCS-ADL	Alzheimer' 's Disease Cooperative Study -Activities of Daily Living	Low	Function	0-30
ADFACS	Alzheimer' 's Disease Functional Assessment and Change Scale	High	Function	0-60
CDR-NH, CDR-SB	Clinical Dementia Rating-NursingHomeVersion, Clinical Dementia Rating-Sum of Boxes (간이인지기능검사)	High	Global assessment	0-18(C DR-SOB)
CGIC	Clinical Global Impression of Change	High	Global assessment	1-7
CIBIC+	Clinician' 's Interview Based Impression of Change plus Caregiver	High	Global assessment	1-7
GBS	Gottfries-Bråne-Steen, Total Score, Motor function subscale, Intellectual subscale, Emotional function subscale, Symptoms subscale	High	Global assessment, Function, General cognitive function Behavior	0-156
MMSE	Mini-Mental Status Exam,	Low	General cognitive function	0-30
NOSGER	Nurses Observation Scale for Geriatric Patients	High	Global assessment	5-25
NPI(NPI-4, NPI-10)	Neuropsychiatric Inventory Subscores 4,10	Low	Behavior	1-144
EXIT-25	The Executive interview	High	General cognitive function	0-25

3) 이 연구에서 meta 분석에 이용된 관련 scale만 정리하였음

부 록 6

국내 치매 약물 심사 평가 기준

부록 6 치매 관련 약물 급여 기준

1. Ginkgo Biloba Extract 경구제(품명 : 기넥신에프정 등)

허가사항 범위내에서 아래와 같은 기준으로 투여시 요양급여를 인정하며, 허가사항 범위이지만 동 인정기준 이외에 투여한 경우에는 약값 전액을 환자가 부담토록 함.

- 아 래 -

가. 인지기능 장애를 동반한 치매(알츠하이머형, 혈관성)에 인지기능 개선목적으로 투여한 경우

단, Ginkgo Biloba Extract제제를 아세틸콜린분해억제제(아리셉트, 레미닐, 엑셀론 등)나 memantine제제(에빅사 등)와 병용시 1종은 요양급여(본인일부부담)하고 병용 약제 중 투약비용이 저렴한 약제의 약값 전액은 환자가 부담함.

나. 중추성 어지러움에 투여한 경우(시행일 : 2009.12.1)

2. Donepezil

- 다음 진단기준(가, 나.목 모두)에 해당되면서 아래와 같은 상병에 투여시 인정하되 6-12개월 간격으로 재평가하여 계속 투여 여부를 결정하여야 함.

가. MMSE(mini mental state exam)는 26점 이하이면서

나. CDR(clinical dementia rating)은 1~3 또는 GDS(Global

Deterioration Scale)는 stage 3~7에 해당되는 경우

- 아 래 -

㉠ 알쯔하이머 형태의 경등도, 중등도, 중증치매증상(뇌혈관 질환을 동반한 알쯔하이머 포함)

㉡ 혈관성 치매 증상

- 전략적 뇌경색(strategic cerebral infarction)치매와 피질의 큰 뇌경색 후 발생한 혈관성 치매인 경우에는 급여를 인정하지 않음.
- 급성기 뇌졸중 이후 발병한 치매는 3개월 이후에 실시한 평가가 치매의 상기 진단기준에 합당할 경우 인정함

㉢ 동제제와 memantine경구제나 ginkgo biloba extract제제와 병용시 각 약제의 허가사항 범위내에서 필요·적절히 투여시 아래와 같이 요양급여를 인정함.

- 아 래 -

- 1종만 요양급여하고 병용 약제 중 투약비용이 저렴한 약제의 약값 전액을 환자가 부담토록 함.

3. Memantine

아래와 같은 진단기준(가, 나.목 모두)에 해당되면서 알쯔하이머 형태(뇌혈관 질환을 동반한 알쯔하이머 포함)의 중등도에서 중증의 치매증상에 투여시 인정하되 6-12개월 간격으로 재평가하여 계속 투여 여부를 결정함.

- 아 래 -

가. MMSE는 20이하 이면서

나. CDR은 2~3 또는 GDS는 stage 4~7에 해당되는 경우

동 제제와 acetylcholinesterase inhibitor제제 (donepezil, galantamine, rivastigmine 등)나 Ginkgo Biloba Extract제제와 병용시 각 약제의 허가사항 범위내에서 필요·적절히 투여시 아래와 같이 요양급여를 인정함.

- 아 래 -
- 1종만 요양급여하고 병용 약제 중 투약비용이 저렴한 약제의 약값 전액을 환자가 부담토록 함.

4. Galantamine

아래와 같은 진단기준(가, 나.목 모두)에 해당되면서 알츠하이머 형태(뇌혈관 질환을 동반한 알츠하이머 포함)의 경등도, 중등도 치매증상에 투여시 인정하되 6-12개월 간격으로 재평가하여 계속 투여 여부를 결정함.

- 아 래 -
- 가. MMSE(mini mental state exam)는 10~24 이면서
- 나. CDR(clinical dementia rating)은 1~2 또는 GDS(Global Deterioration Scale)는 stage 3~5에 해당되는 경우

② 동제제와 memantine 경구제나 ginkgo biloba extract제제와 병용시 각 약제의 허가사항 범위내에서 필요·적절히 투여시 아래와 같이 요양급여를 인정함.

- 아 래 -
- 1종만 요양급여하고 병용 약제 중 투약비용이 저렴한 약제의 약값 전액을 환자가 부담토록 함.

5. Rivastigmine

아래와 같은 진단기준(가, 나.목 모두)에 해당되면서 알츠하이머 형태(뇌혈관 질환을 동반한 알츠하이머 포함)의 경등도, 중등도 치매증상에 투여시 인정하되 6-12개월 간격으로 재평가하여 계속 투여 여부를 결정함.

- 아 래 -
- 가. MMSE(mini mental state exam)는 10~26 이면서
- 나. CDR(clinical dementia rating)은 1~2 또는 GDS (Global

Deterioration Scale)는 stage 3~5에 해당되는 경우

② 동제제와 memantine 경구제나 ginkgo biloba extract제제와 병용시 각 약제의 허가사항 범위내에서 필요·적절히 투여시 아래와 같이 요양급여를 인정함.

- 아 래 -

- 1종만 요양급여하고 병용 약제 중 투약비용이 저렴한 약제의 약값 전액을 환자가 부담토록 함.

부 록 7

질평가도구

부록 7 질평가도구

1. AMSTAR

<p>1. Was an ‘a priori’ design provided? The research question and inclusion criteria should be established before the conduct of the review.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can’t answer <input type="checkbox"/> Not applicable
<p>2. Was there duplicate study selection and data extraction? There should be at least two independent data extractors and a consensus procedure for disagreements should be in place.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can’t answer <input type="checkbox"/> Not applicable
<p>3. Was a comprehensive literature search performed? At least two electronic sources should be searched. The report must include years and databases used (e.g. Central, EMBASE, and MEDLINE). Key words and/or MESH terms must be stated and where feasible the search strategy should be provided. All searches should be supplemented by consulting current contents, reviews, textbooks, specialized registers, or experts in the particular field of study, and by reviewing the references in the studies found.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can’t answer <input type="checkbox"/> Not applicable
<p>4. Was the status of publication (i.e. grey literature) used as an inclusion criterion? The authors should state that they searched for reports regardless of their publication type. The authors should state whether or not they excluded any reports (from the</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can’t answer <input type="checkbox"/> Not applicable

<p>systematic review), based on their publication status, language etc.</p>	
<p>5. Was a list of studies (included and excluded) provided? A list of included and excluded studies should be provided.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable</p>
<p>6. Were the characteristics of the included studies provided? In an aggregated form such as a table, data from the original studies should be provided on the participants, interventions and outcomes. The ranges of characteristics in all the studies analyzed e.g. age, race, sex, relevant socioeconomic data, disease status, duration, severity, or other diseases should be reported.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable</p>
<p>7. Was the scientific quality of the included studies assessed and documented? 'A priori' methods of assessment should be provided (e.g., for effectiveness studies if the author(s) chose to include only randomized, double-blind, placebo controlled studies, or allocation concealment as inclusion criteria); for other types of studies alternative items will be relevant.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable</p>
<p>8. Was the scientific quality of the included studies used appropriately in formulating conclusions? The results of the methodological rigor and scientific quality should be considered in the analysis and the conclusions of the review, and explicitly stated in formulating recommendations.</p>	<p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable</p>

<p>9. Were the methods used to combine the findings of studies appropriate?</p> <p>For the pooled results, a test should be done to ensure the studies were combinable, to assess their homogeneity (i.e. Chi-squared test for homogeneity, I²). If heterogeneity exists a random effects model should be used and/or the clinical appropriateness of combining should be taken into consideration (i.e. is it sensible to combine?).</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable
<p>10. Was the likelihood of publication bias assessed?</p> <p>An assessment of publication bias should include a combination of graphical aids (e.g., funnel plot, other available tests) and/or statistical tests (e.g., Egger regression test).</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable
<p>11. Was the conflict of interest stated?</p> <p>Potential sources of support should be clearly acknowledged in both the systematic review and the included studies.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Can't answer <input type="checkbox"/> Not applicable

2. Risk of Bias

Domain	Description	Review author's judgement
Sequence generation	Describe the method used to generate the allocation sequence in sufficient detail to allow an assessment of whether it should produce comparable groups	Was the allocation sequence adequately generated?
Allocation concealment	Describe the method used to conceal the allocation sequence in sufficient detail to determine whether intervention allocations could have been foreseen in advance of, or during, enrolment.	Was allocation adequately concealed?
Blinding of participants, personnel and outcome assessors Assessments should be made for each main outcome (or class of outcomes)	Describe all measures used, if any, to blind study participants and personnel from knowledge of which intervention a participant received. Provide any information relating to whether the intended blinding was effective.	Was knowledge of the allocated intervention adequately prevented during the study?
Incomplete outcome data Assessments should be made for each main outcome (or class of outcomes).	Describe the completeness of outcome data for each main outcome, including attrition and exclusions were reported, the numbers in each intervention group (compared with total randomized participants), reasons for attrition/exclusions where reported, and any re-inclusions in analyses performed by the review authors.	Were incomplete outcome data adequately addressed?
Selective outcome reporting	State how the possibility of selective outcome reporting was examined by the review authors, and what was found.	Are reports of the study free of suggestion of selective outcome reporting?
Other sources of bias	State any important concerns about bias not addressed in the other domains in the tool. If particular question/entries were pre-specified in the review's protocol, response should be provided for each	Was the study apparently free of other problems that could put it at

	question/entry.	a high risk of bias?
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부 록 8

Abbreviation of screening tool

ACS=Assessment of Cognitive Skills
ADRDA=Alzheimer's Disease and Related Disorders Association
AMT=Abbreviated Mental Test
B-ADL=Bayer Activities of Daily Living scale
BDRS=Blessed Dementia Rating Scale
BNT=Boston Naming Test
BSCI=Brief Screening for Cognitive Impairment
CADS=Computer-Automated Dementia Screening
CAMCOG=Cambridge Cognitive Examination
CAMDEX=Cambridge Examination for Mental Disorders of the Elderly Examination
CAST=Cognitive Assessment Screening Test
CDR=Clinical Dementia Rating
CDT=Clock Drawing Test
CERAD=Consortium to Establish a Registry for Alzheimer's Disease
CTS=Computerised Test System
DECO=Deterioration Cognitive Observee
DQ=Dementia Questionnaire
DRS=Dementia Rating Scale
DSM-III(R)=Diagnostic and Statistical Manual of Mental Disorders III (revised)
EASI=Early Assessment Self Inventory
EMSQ=Extended Mental Status Questionnaire
GPCOG=General Practitioner Assessment of Cognition
IADL=Instrumental Activities of Daily Living
ICD-10=World Health Organization's International Classification of Diseases codes
IQCODE=Informant Questionnaire on Cognitive Decline in the Elderly
MCAS=Minnesota Cognitive Acuity Screen
MIS=Memory Impairment Screen

MMSE=Mini-Mental State Examination
MoCA=Montreal Cognitive Assessment
NINCDS=National Institute of Neurological and Communicative Disorders and Stroke
PCL=Prueba Cognitiva de Leganes
PGCDMT=Philadelphia Geriatric Center Delayed Memory Test
R-CAMCOG=CAMCOG revised
RI48=Extended version of the MIS
RUDAS=Rowland Universal Dementia Assessment Scale
SDS=Symptom of Dementia Screener
SIS=Six-Item Screener
SISCO=score from the cognitive test component of the Structured Interview for the diagnosis of Dementia of the Alzheimer type (SIDAM)
SMI=Subjective Memory Impairment Scale
(S)CIDS=(Short) Concord Informant Dementia Scale
SPMSQ=Short PortableMental Status Questionnaire
ST=Self Test; STIDA=Structured Telephone Interview for Dementia Assessment
TCT=Time and Change Test
TEAD-Cog=Cognitive tests of the Test for the Early Detection of Dementia from Depression
TELE=self-report interview used to screen for cognitive impairment over the telephone
TICSm=Telephone Interview for Cognitive Status modified
VF=verbal fluency
3MS=Modified Mini-Mental State Examination
6CIT=Six-Item Cognitive Impairment Test
7MS=Seven Minute Screening Test.
[Cherbuin, et al, 2008]