G.7.4.2 Behavioural variant frontotemporal dementia

Cholinesterase inhibitors versus placebo

Quality assessment							patients	Effect estimate	Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	AChEI	Placebo	Summary of results	
Cognitive outcomes -	global cog	nition							
MMSE (higher values	= better sc	ore)							
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	17	17	MD 4.40 (-1.02, 9.82)	Low
Dementia Rating Scal	e (higher va	alues = better s	core)						
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	17	17	MD 22.00 (-3.37,47.37)	Low

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	Quality assessment							Effect estimate	Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	AChEI	Placebo	Summary of results	
Neuropsychiatric symp	otoms								
NPI (lower values = bet	tter score)								
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	17	17	MD 5.80 (-7.25, 18.85)	Low
Functional ability									
Functional Assessmen	t Battery (higher values =	better score)						
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	17	17	MD 2.50 (-0.99, 5.99)	Low
ADCS-ADL (higher value	ue = better	score)							
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	17	17	MD 7.00 (-7.55, 21.55)	Low
Adverse events									
Any adverse events (lo	wer value	s = better score	•)						
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	4/18	5/18	RR 0.80 (0.26, 2.50)	Low
Discontinuation due to	adverse e	vents (lower va	lues = better so	core)					
1 (Kerstesz 2008)	RCT	Not serious	Not serious	Not serious	Very serious ¹	1/18	1/18	RR 1.00 (0.07, 14.79)	Low
		n-significant resu of a defined MID							

Memantine versus placebo

		Quality ass	No of pat	ients	Effect estimate	Quality			
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	Memantine	Placebo	Summary of results	
Cognitive outcomes -	global cog	nition							
MMSE (higher values	= better sc	ore)							
2 (Boxer 2013, Vercelletto 2011)	RCT	Not serious	Not serious	Not serious	Serious ¹	50	55	MD 0.26 (-1.43, 1.95)	Moderate
Mattis Dementia Ratin	g Scale (lo	wer values = be	etter score)						
1 (Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Very serious ²	18	23	MD 6.30 (-9.55, 22.15)	Low
EXIT-25 (lower values	= better sc	ore)							
1 (Boxer 2013)	RCT	Not serious	Not serious	N/A	Serious ¹	31	33	MD 1.20 (-1.86, 4.26)	Moderate

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	Quality assessment							Effect estimate	Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	Memantine	Placebo	Summary of results	
Neuropsychiatric sym	nptoms								
NPI (lower values = be	etter score)								
2 (Boxer 2013, Vercelletto 2011)	RCT	Not serious	Not serious	Not serious	Serious ¹	48	55	MD -3.61 (-8.79, 1.57)	Moderate
Global assessment									
Clinician's Interview b	oased Impre	ssion of Chang	je (lower values	s = better score)					
1 (Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Very serious ²	18	23	MD -0.80 (-1.82, 0.22)	Low
Clinician's Global Imp	pression of	Change (lower	values = better	score)					
1 (Boxer 2013)	RCT	Not serious	Not serious	N/A	Serious ¹	31	33	MD -0.50 (-1.35, 0.35)	Moderate
Clinical Dementia Rat	ing Sum of	Boxes (lower v	alues = better s	core)					
1 (Boxer 2013)	RCT	Not serious	Not serious	N/A	Serious ¹	31	33	MD -0.10 (-2.22, 2.02)	Moderate
Motor function									
Unified Parkinson's d		-							
1 (Boxer 2013)	RCT	Not serious	Not serious	N/A	Serious ¹	31	33	MD -0.30 (-3.46, 2.86)	Moderate
Carer burden	11								
ZBI (lower values = be		Nint naminus	Niet e e de coe	N1/A	1/2	40	00	MD 5 40 / 44 50 0 70)	Law
1 (Vercelletto 2011) Adverse events	RCT	Not serious	Not serious	N/A	Very serious ²	16	23	MD -5.40 (-14.52, 3.72)	Low
Any adverse events (I	lower value	- bottor coord							
1 (Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Very serious ⁴	8/23	10/26	RR 0.90 (0.43, 1.90)	Low
Serious adverse even				IN/A	very serious	0/23	10/20	1(17 0.90 (0.43, 1.90)	LOW
2 (Boxer 2013, Vercelletto 2011)	RCT	Not serious	Not serious	Not serious	Very serious ⁴	7/54	12/59	RR 0.65 (0.29,1.48)	Very low
Discontinuation due t	o adverse e	vents (lower va	ilues = hetter s	core)					
1 (Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Very serious ⁴	3/23	3/26	RR 1.13 (0.25, 5.06)	Low
Mortality (lower value	-			1	. Sty Solitodo	0,20	0,20	(0.20, 0.00)	_3
1 (Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Very serious ²	2/23	0/26	RR 5.63 (0.28, 111.43)	Low
 Non-significar Small sample i²>40%. 	size and no	n-significant resu			, ,			,	

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Network meta-analyses

	Quality assessment								Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	Active	Placebo	Summary of results	
Cognitive outcomes – global cognition									
MMSE (higher values = better score)									
3 (Boxer 2013, Kertesz 2008, Vercelletto 2011)	RCT	Not serious	Not serious	Not serious	Serious ¹	67	72	See appendix H	Moderate
Neuropsychiatric symptoms									
NPI (lower values = better score)									
3 (Boxer 2013, Kertesz 2008, Vercelletto 2011)	RCT	Not serious	Not serious	Not serious	Serious ¹	65	72	See appendix H	Moderate
Adverse events									
Any adverse events (lower values = bet	ter score)								
2 (Kertesz 2008, Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Serious ¹	41	44	See appendix H	Moderate
Discontinuation due to adverse events (lower valu	ues = better sco	re)						
2 (Kertesz 2008, Vercelletto 2011)	RCT	Not serious	Not serious	N/A	Serious ¹	41	44	See appendix H	Moderate
 Analysis could not differentiate an i²>40%. 	y treatmer	t groups.							