Dementia Appendix G: GRADE and CERQual Tables

### G.7.3.2 Parkinsons disease dementia – memantine

# PDD - memantine vs. placebo: adverse events

	Quality			No of pa	tients		Quality		
	No of studies Design Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Relative (95% CI)	Absolute (95% CI)	Quanty
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Any advers	e events (p	orobability of	experiencing ≥1	; follow-up 16	to 24 weeks, lo	wer is bette	r)							
2 <sup>1,2</sup>	RCT	not serious	not serious	not serious	serious <sup>3</sup>	34/73 (46.6%)	35/72 (48.6%)	RR 0.97 (0.69 to 1.37)	15 fewer per 1000 (from 151 fewer to 180 more)	⊕⊕⊕O MODERATE				
Serious adv	Serious adverse events (probability of experiencing ≥1; follow-up 16 to 24 weeks, lower is better)													
2 <sup>1,2</sup>	RCT	not serious	not serious	not serious	very serious <sup>3,4</sup>	9/73 (12.3%)	8/72 (11.1%)	RR 1.09 (0.45 to 2.67)	10 more per 1000 (from 61 fewer to 186 more)	⊕⊕OO LOW				
Adverse ev	ents requir	ing treatment	t withdrawal (pro	bability of exp	periencing; follo	w-up 24 we	eks, lower	is better)						
1 <sup>1</sup>	RCT	not serious	N/A	not serious	very serious <sup>3,4</sup>	6/62 (9.7%)	5/58 (8.6%)	RR 1.12 (0.36 to 3.48)	10 more per 1000 (from 55 fewer to 214 more)	⊕⊕OO LOW				
<sup>2</sup> Leroi 200	<sup>(9.7%)</sup> (8.6%) <sup>1</sup> Emre 2010; data reported for PDD population only; study also included people with DLB <sup>2</sup> Leroi 2009; not clear if adverse event data reported at end of active treatment (16 weeks) or end of drug withdrawal phase (22 weeks) <sup>3</sup> At a 95% confidence level, data are consistent with appreciable harm, appreciable benefit or no difference													

<sup>4</sup> Very small numbers of events

# PDD – memantine vs. placebo: cognitive function

Quality assessment         No of patients         Effect											
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Mean difference (95% CI)	Quality		
MMSE (follow-up	IMSE (follow-up 16 weeks; range of scores: 0-30; higher is better)										
1 <sup>1</sup>	RCT	not serious	N/A	not serious	very serious <sup>2,3</sup>	10	14	1 lower (6.01 lower to 4.01 higher)	⊕⊕OO LOW		
Clock drawing te	st (follow-	up 24 weeks; rar	ge of scores: 0-10	higher is better)							
<b>1</b> ⁴	RCT	not serious	N/A	not serious	serious <sup>2</sup>	57	56	3.1 higher (6.94 lower to 13.14 higher)	⊕⊕⊕O MODERATE		
<sup>2</sup> At a 95% confi <sup>3</sup> Very small nur	Leroi 2009; data reported for end of drug treatment phase (16 weeks) At a 95% confidence level, data are consistent with appreciable benefit, appreciable harm or no difference Very small numbers of participants in the study Emre 2010; data reported for PDD population only; study also included people with DLB										

# PDD – memantine vs. placebo: global assessment

		Qual	ity assessment			No of pa	tients	Effect (95% CI)	Quality			
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Effect (95% CI)				
ADCS-CGIC (foll	ADCS-CGIC (follow-up 24 weeks; range of scores: 1-7; lower is better)											
1 <sup>1</sup>	RCT	not serious	N/A	not serious	serious <sup>2</sup>	60	56	MD 0.2 lower (0.69 lower to 0.29 higher)	⊕⊕⊕O MODERATE			
CIBIC+ (at least	minimal i	mprovement; fo	ollow-up 16 weeks	; higher is bette	r)							
1 <sup>3</sup>	RCT	not serious	N/A	not serious	very serious <sup>2,4</sup>	6/10 (60%)	6/14 (42.9%)	RR 1.4 (0.64 to 3.08) 171 more per 1000 (from 154 fewer to 891 more)	⊕⊕OO LOW			

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<sup>1</sup> *Emre 2010; data reported for PDD population only; study also included people with DLB* <sup>2</sup> *At a 95% confidence level, data are consistent with appreciable benefit, appreciable harm or no difference* 

<sup>3</sup> Leroi 2009; data reported for end of drug treatment phase (16 weeks)

<sup>4</sup> Data from a single very small study

### PDD - memantine vs. placebo: activities of daily living

		Quali	ty assessment			No of pa	tients	Effect	Quality				
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Mean difference (95% CI)	Quality				
ADCS-ADL (follow-up 24 weeks; measured with: 23-item score; higher is better)													
1 <sup>1</sup>	RCT	not serious	N/A	not serious	serious <sup>2</sup>	60	56	0.8 higher (3.22 lower to 4.82 higher)	⊕⊕⊕O MODERATE				
			ation only; study al			r na diffaranca							

<sup>2</sup> At a 95% confidence level, data are consistent with appreciable benefit, appreciable harm or no difference

### PDD - memantine vs. placebo: carer-reported outcomes

		Quali	ity assessment			No of pa	tients	Effect	Quality		
No of studies	s Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Mean difference (95% CI)	Quanty		
ZBI (follow-up '	ZBI (follow-up 16 to 24 weeks; lower is better) <sup>1</sup>										
2 <sup>2,3</sup>	RCT	not serious	not serious	not serious	serious <sup>4</sup>	71	70	3.4 lower (7.21 lower to 0.42 higher)	⊕⊕⊕O MODERATE		
			ndary publication (L								
			treatment phase (								
<sup>3</sup> Emre 2010; d	<sup>3</sup> Emre 2010; data reported for PDD population only; study also included people with DLB										
<sup>₄</sup> At a 95% cor	nfidence leve	el, data are cons	sistent with appreci	able benefit, app	preciable harm or	no difference					

### PDD - memantine vs. placebo: other non-cognitive outcomes

		Qual	ity assessment			No of pat	tients	Effect	Quality		
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Memantine	Placebo	Mean difference (95% CI)			
NPI 12-item (follow-up 24 weeks; range of scores: 0-144; lower is better)											
1 <sup>1</sup>	RCT	not serious	N/A	not serious	serious <sup>3</sup>	60	56	MD 1.50 lower (6.35 lower to 3.35 higher)	⊕⊕⊕O MODERATE		
NPI 10-item (follo	ow-up 16 v	veeks; range of	scores: 0-120; low	er is better)							
1 <sup>2</sup>	RCT	not serious	N/A	not serious	very serious <sup>3,4</sup>	10	14	MD 2.00 lower (11.64 lower to 7.64 higher)	⊕⊕OO LOW		
UPDRS III (follow	/-up 16 to	24 weeks; lower	r is better)								

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Dementia Appendix G: GRADE and CERQual Tables

2 <sup>1,2</sup>	RCT	not serious	not serious	not serious	serious <sup>3,5</sup>	70	70	MD 0.88 higher (2.35 lower to 4.1 higher)	⊕⊕⊕O MODERATE
<ul> <li><sup>2</sup> Leroi 2009; da</li> <li><sup>3</sup> At a 95% cont</li> <li><sup>4</sup> Data from a si</li> </ul>	ata reporte idence lev ngle very	ed for end of dr /el, data are co small study	pulation only; stud ug treatment phas onsistent with app t al 2015) and 5 p	se (16 weeks) reciable benefit,	appreciable harn		nce		