## G.9.1.13 Non-invasive brain stimulation

## Non-invasive brain stimulation in people with Alzheimer's disease (post-intervention)

Quality assessment						No of participants		Effect estimate	Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency	Imprecision	Brain stimulation	Sham	Summary of results Mean difference (95% CI)	
Cognition: MMSE	– higher valu	es favour inter	vention						
4	RCT	Serious <sup>3</sup>	Not serious	Not serious	Serious <sup>1</sup>	50	40	MD 0.79 (-0.57, 2.15)	Low
Cognition (standardised mean difference): MMSE or ADAS-cog – higher values favour intervention									
5	RCT	Serious <sup>3</sup>	Not serious	Not serious	Serious <sup>1</sup>	57	48	SMD 0.28 (-0.12, 0.68)	Low
Activities of daily living: IADL – higher values favour intervention									
2	RCT	Serious <sup>3</sup>	Not serious	Not serious	Serious <sup>1,2</sup>	17	16	MD 0.00 (-1.45, 1.45)	Low
Depression: Geria	tric Depressi	on Scale (GDS	)– lower value	s favour interv	ention				
2	RCT	Serious <sup>3</sup>	Not serious	Not serious	Serious <sup>1</sup>	33	23	MD -1.08 (-2.24, 0.08)	Low
<ol> <li>Non-signific</li> <li>Low particip</li> </ol>	cant result pant numbers								

3. No information on randomisation and allocation concealment methods and assessor blinding, unclear whether groups were balanced at baseline for some outcomes of interest

ADAS-cog: Alzheimer's Disease Assessment Scale-cognitive; IADL: Instrumental Activities of Daily Living; MMSE: Mini Mental State

## Non-invasive brain stimulation in people with Alzheimer's disease (follow-up)

Quality assessment						No of participants		Effect estimate	Quality		
No of studies	Design	Risk of bias	Indirectness	Inconsistency		Brain stimulation		Summary of results Mean difference (95% CI)			
Cognition: MMSE – I	Cognition: MMSE – higher values favour intervention										
3	RCT	Serious <sup>4</sup>	Not serious	Serious <sup>1</sup>	Serious <sup>2</sup>	45	35	MD 1.23 (-1.68, 4.14)	Very low		
Activities of daily living: IADL – higher values favour intervention											

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Quality assessment						No of participants		Effect estimate	Quality
No of studies	Design	Risk of bias	Indirectness	Inconsistency		Brain stimulation	Sham	Summary of results Mean difference (95% Cl)	
1 (Cotelli 2014)	RCT	Serious <sup>4</sup>	Not serious	N/A	Very serious <sup>2,3</sup>	12	12	MD 0.10 (-1.58, 1.78)	Very low
Depression: GDS – lower values favour intervention									
2	RCT	Serious <sup>4</sup>	Not serious	Not serious	Serious <sup>2</sup>	33	23	MD -2.07 (-4.19, 0.05)	Low
1. l <sup>2</sup> >40%									

2. Non-significant result

 Low participant numbers
 Low participant numbers
 No information on randomisation and allocation concealment methods and assessor blinding, unclear whether groups were balanced at baseline for some outcomes of interest

IADL: Instrumental Activities of Daily Living; GDS: Geriatric depression scale; MMSE: Mini Mental State Examinations