

P.2.1.78 MMSE (<25)

Studies	Design	Total N	Sens (95%CI)	Spec (95%CI)	Measure	Summary of findings (95%CI)	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Quality
PRIMARY CARE												
1 study (Carnero-Pardo 2013)	1 × prospective	360	0.99 (0.91, 1.00)	0.38 (0.33, 0.44)	LR+	1.61 (1.46, 1.76)	Serious	n/a	Not serious	Not serious	-	MODERATE
					LR-	0.02 (0.00, 0.27)	Serious	n/a	Not serious	Serious		MODERATE
SECONDARY CARE												
7 studies (Callahan 2002; Flicker 1997; Kukull 1994; Larner 2015; Milian 2012; Nielsen 2013; Yeung 2014)	6 × prospective; 1 × retrospective	2,020	0.82 (0.73, 0.87)	0.83 (0.70, 0.91)	LR+	5.18 (2.74, 9.37)	V. serious	Serious	Not serious	Not serious	-	VERY LOW
					LR-	0.22 (0.14, 0.33)	V. serious	Serious	Not serious	Not serious		VERY LOW
ALL EVIDENCE POOLED												
8 studies (Callahan 2002; Carnero-Pardo 2013; Flicker 1997; Kukull 1994; Larner 2015; Milian 2012; Nielsen 2013; Yeung 2014)	7 × prospective; 1 × retrospective	2,380	0.85 (0.75, 0.91)	0.80 (0.62, 0.90)	LR+	4.41 (2.31, 8.1)	V. serious	Serious	Not serious	Not serious	-	VERY LOW
					LR-	0.20 (0.12, 0.31)	V. serious	Serious	Not serious	Not serious		VERY LOW

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Notes on risk of bias

Kukull 1994: It is unclear whether the index test results were interpreted without knowledge of the results of the reference standard; multiple pre-specified cut-offs were used to determine the optimal cut-off; the index test result was known during the reference standard diagnosis.

Flicker 1997: Due to non-pre-specification of test thresholds; large number of patients excluded from study; lack of clarity about patient groups included in the analysis and whether the reference standard results were interpreted without knowledge of the results of the index test.

Callahan 2002: It was unclear whether a consecutive or random sample of patients was enrolled in the study; whether the index and reference tests were independent of each other and the test threshold was not pre-specified.

Milian 2012: Unclear whether inappropriate exclusions were avoided; whether the patients were a random or consecutive sample and whether the reference standard result was interpreted without knowledge of the results of the index test.

Carnero-Pardo 2013: Multiple test thresholds were used

Nielsen 2013: The study selected some participants on the basis of immigrant background and excluded non-immigrants during this time period; the people with immigrant backgrounds were significantly younger than Danish-born participants; the test threshold was not pre-specified.

Yeung 2014: Unclear whether patients were selected randomly or consecutively or whether inappropriate exclusions were avoided; the optimal index test thresholds were determined during the study; it is unclear whether the index test results and reference test results were assessed independently of each other: subgroup analysis was carried out with >10% population (MCI) being excluded.