

Supplementary Online Content

Ganguli M, Snitz BE, Saxton JA, et al. Outcomes of mild cognitive impairment by definition: a population study. *Arch Neurol*. 2011;69(6):761-767.

eTable 1. Clinical Dementia Rating (CDR) as Outcome: Se/Sp/PPV/NPV for Worsening to $CDR \geq 1$

eTable 2. Cognitive Classification as Outcome: Se/Sp/PPV/NPV for Worsening to “Moderate/Severe Cognitive Impairment”

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Clinical Dementia Rating (CDR) as Outcome: Se/Sp/PPV/NPV for Worsening to CDR \geq 1

MCI Definition at Baseline	No. at Baseline With CDR<1 Also Assessed at 1-y Follow-up		No. (%) Worsened to CDR \geq 1		Original Version				Narrow Version			
	Orig	Narr	Orig	Narr	Se	Sp	PP	NP	Se	Sp	PP	NP
	inal	ow	inal	ow	Vers	Vers	V	V	Vers	Vers	V	V
Standard MCI criteria (operationally defined) ^{1,2}												
Mayo criteria ¹	3	1	1	1	0.1	0.9	0.0	0.9	0.1	0.9	0.0	0.9
	6	5	(2.8)	(6.7)	25	79	28	96	25	92	67	96
IWG criteria ²	2	1	2	1	0.2	0.8	0.0	0.9	0.1	0.9	0.0	0.9
	9	2	(0.7)	(0.8)	50	27	07	96	25	28	08	95
MYHAT cognitive classification ¹⁵												
Amnestic single-domain MCI	7	3	1	2	0.5	0.9	0.0	0.9	0.4	0.9	0.0	0.9
	2	4	(1.4)	(5.9)	00	37	14	99	00	77	59	98
Amnestic multidomain MCI	1	3	2	0	0.6	0.9	0.0	0.9	0.0	0.9	0.0	0.9
	1	6	(1.8)	(0.0)	67	04	18	99	00	74	00	98
Any amnestic MCI	1	7	3	2	0.7	0.8	0.0	0.9	0.4	0.9	0.0	0.9
	8	0	(1.6)	(2.9)	50	52	16	99	00	52	29	98
Nonamnestic single-domain MCI	2	1	2	1	0.6	0.7	0.0	0.9	0.2	0.8	0.0	0.9
	6	7	(0.8)	(0.6)	67	99	07	99	50	85	06	98
Nonamnestic multidomain MCI	1	3	0	0	0.0	0.8	0.0	0.9	0.0	0.9	0.0	0.9
	1	7			00	98	00	99	00	73	00	98
Any nonamnestic MCI	3	2	2	1	0.6	0.7	0.0	0.9	0.2	0.8	0.0	0.9
	8	1	(0.5)	(0.5)	67	33	05	99	50	64	05	98
Any “purely cognitive” MCI	5	2	5	3	0.8	0.6	0.0	0.9	0.5	0.8	0.0	0.9
	7	8	(0.9)	(1.1)	33	50	09	99	00	28	11	98
Normal cognition (comparison)	1	1	1	3	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
	0	3	(0.1)	(0.2)								
	5	4										

	4	4											
CDR (field adaptation) ³													
CDR=0.5	4	N	8	NA	0.8	0.7	0.0	0.9	0.8	0.7	0.0	0.9	
	4	A	(1.8)		89	42	18	99	89	42	18	99	
	0												
	1												
CDR=0	2	N	1	NA	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref	Ref
(comparison)	4	A	(0.1)										
	2												

Abbreviations: CDR, Clinical Dementia Rating; MCI, mild cognitive impairment; NA, not applicable; NPV, negative predictive value; PPV, positive predictive value; Ref, reference group; Se, sensitivity; Sp, specificity.

Original version: Mini-Mental State Examination score threshold of at least 21; cognitive threshold 1.0 SD below the appropriate mean.

Narrow version: Mini-Mental State Examination score threshold of at least 24; cognitive threshold 1.5 SD below the appropriate mean.

eTable 2. Cognitive Classification as Outcome: Se/Sp/PPV/NPV for Worsening to “Moderate/Severe Cognitive Impairment”

MCI Definition at Baseline	No. at Baseline With Normal or Mildly Impaired Cognition Also Assessed at 1-y Follow-up ^a		No. (%) Worsened to “Moderate/Severe Cognitive Impairment”		Original Version				Narrow Version				
	Original version	Narrow version	Original version	Narrow version	Se	Sp	PPV	NPV	Se	Sp	PPV	NPV	
Standard MCI criteria (operationally defined) ^{1,2}													
Mayo criteria ¹	35	14	3 (8.6)	0	0.0	0.9	0.0	0.9	0.0	0.9	0.0	0.9	
					81	80	86	78	00	91	00	77	
IWG criteria ²	285	118	20 (7.0)	12 (10.2)	0.5	0.8	0.0	0.9	0.3	0.9	0.1	0.9	
					41	30	70	87	24	32	02	83	
MYHAT cognitive classification ¹⁵													
Amnesic single-domain MCI	69	32	4 (5.8)	1 (3.1)	0.5	0.9	0.0	0.9	0.1	0.9	0.0	0.9	
					71	41	58	97	00	77	31	93	

Amnestic multidomain MCI	111	36	22 (19.8)	13 (36.1)	0.8 80	0.9 21	0.1 98	0.9 97	0.5 91	0.9 83	0.3 61	0.9 93
Any amnestic MCI	180	68	26 (14.4)	14 (20.6)	0.8 97	0.8 71	0.1 44	0.9 97	0.6 09	0.9 61	0.2 06	0.9 93
Nonamnestic single-domain MCI	262	170	3 (1.1)	9 (5.3)	0.5 00	0.8 01	0.0 11	0.9 97	0.5 00	0.8 92	0.0 53	0.9 93
Nonamnestic multidomain MCI	116	36	5 (4.3)	5 (13.9)	0.6 25	0.9 04	0.0 43	0.9 97	0.3 57	0.9 77	0.1 39	0.9 93
Any nonamnestic MCI	378	206	8 (2.1)	14 (6.8)	0.7 27	0.7 38	0.0 21	0.9 97	0.6 09	0.8 73	0.0 68	0.9 93
Any “purely cognitive” MCI	558	274	34 (6.1)	28 (10.2)	0.9 19	0.6 66	0.0 61	0.9 97	0.7 57	0.8 43	0.1 02	0.9 93
Normal cognition (comparison) CDR (field adaptation) ³	104 6	133 2	3 (0.3)	9 (0.7)	Re f	Re f	Re f	Re f	Re f	Re f	Re f	Re f
CDR=0.5	400	401	22 (5.5)	22 (5.5)	0.5 95	0.7 59	0.0 55	0.9 88	0.5 95	0.7 58	0.0 55	0.9 88
CDR=0 (comparison)	120 4	120 4	15 (1.2)	15 (1.2)	Re f	Re f	Re f	Re f	Re f	Re f	Re f	Re f

Abbreviations: CDR, Clinical Dementia Rating; MCI, mild cognitive impairment; NA, not applicable; NPV, negative predictive value; PPV, positive predictive value; Ref, reference group; Se, sensitivity; Sp, specificity.

^aExcluding insufficient cognitive data to be classified at either baseline or follow-up.

Original version: Mini-Mental State Examination score threshold of at least 21; cognitive threshold 1.0 SD below the appropriate mean.

Narrow version: Mini-Mental State Examination score threshold of at least 24; cognitive threshold 1.5 SD below the appropriate mean.