Table e-1. MCI diagnosis criteria used by articles included in AAN MCI guideline

MCI diagnosis crite Recent criteria not use									
Article	Memory complaint	Cognitive complaint	Memory impairment	Cognitively impaired	Relatively preserved general cognition	Intact ADL	No dementia	CDR 0.5	Comment
NIA-AA workgroup 2011 <sup>e96</sup> International working group	Not specifically Not specifical	Yes	May include	Yes		Yes	Yes		"Individuals may be less efficient and make more errors at performing ADL and IADL than in the past." Biomarker evidence supportive of presence of AD
2004 <sup>e1</sup> DSM-5 <sup>e97</sup>	ically No	Yes Yes	May include  May include	Yes Yes		Yes  No (see comment)	Yes		pathologic changes Compensatory strategies needed to help maintain independence and perform ADL

Article (first author, y)	Memory complaint	Cognitive complaint	Memory impairment	Cognitively impaired	Relatively preserved general cognition	Intact ADL	No dementia	CDR 0.5	Comment
Fei, 2009 <sup>e10</sup>	Yesa	No	Not mentioned	Yes			Yes		
Ding, 2015 <sup>e33</sup>	Yes	Yes	Yes		Yes	Yes	Yes		Used Petersen, 2004 <sup>e2</sup>
Guaita, 2015 <sup>e29</sup>	Yes	Yes	Yes		Yes	Yes	Yes		Used Petersen, 2004 <sup>e2</sup>
Hilal, 2013 <sup>e35</sup>	No	No	May include	Yes	Yes	Yes	Yes		
Lopez, 2007 <sup>e23</sup>	No	No	Yes			Yes	Yes		
Bennett, 2002 <sup>e98</sup>	No	No Not	Yes	Yes <sup>b</sup>	Yes	Yes	Yes		
Ganguli, 2004 <sup>e9</sup>	Yes	specified  Not	MMSE >24	Yes		Yes	Yes		Operationalized 1999 Petersen criteria for amnestic, 2004 criteria for expanded
Ganguli, 2010 <sup>e26</sup>	Yes	specified	MMSE ≥21	Yes		Yes	Yes	Yes	MCI <sup>e2,e3</sup>
Li, 2013 <sup>e38</sup>	Yes	Not specified	MMSE >23			Yes	Yes		Hand Windstell and at
Olazaran, 2015 <sup>e40</sup>	No	Yes	Yes		Vac (MMCE	Yes		Yes	Used Winblad et al., 2004 <sup>e1</sup>
Petersen, 2004 <sup>e2</sup>	Yes	Yes	Yes		Yes (MMSE >24/30)	Yes			

<b>Roberts</b> , 2014 <sup>e45</sup>	Yes	Yes	Yes		Yes (MMSE >24/30)	Yes			
Rodriguez-Sanchez,	Not specif								
2011 <sup>e41</sup>	ied	Yes Not	May include	Yes			Yes		
Salloway, 2004e55	Yes	specified Not	Yes Yes (MMSE		Yes	Yes <sup>c</sup>	Yes		
Winblad, 2004 <sup>e1</sup>	Yes Not	specified	<i>≤</i> 24)			Yes		Yes	
Palmer, 2002 <sup>e99</sup>	specif ied	Yes	Not specified	Yes		Yes	Yes		
1 anner, 2002	icu	Not	Not specified	108		108	108		
Petersen, 2001 <sup>e5</sup>	Yes	specified Not	Yes	Yes	Yes	Yes	Yes		
Petersen, 1999 <sup>e3</sup>	Yes	specified	Yes	Yes	Yes	Yes	Yes		
	Usual			Not defin					
Petersen, 1995 <sup>e100</sup>	ly Not	Yes	Yes	ed	Yes	Yes	Yes	Yes	
	specif					Not			
Flicker, 1991 <sup>e101</sup>	ied	Yes	Yes	Yes	No	specified	Yes		
Shi, 2013 <sup>e28</sup>	No	No	May include	Yes	No	Yes	Yes		

a "Must be embarrassing to patient themselves"

Abbreviations: AD = Alzheimer disease; ADL = activities of daily living; CDR = Clinical Dementia Rating scale; DSM5 = *Diagnostic Manual of Statistical and Mental Disorders*, 5th ed.; IADL = Instrumental activity of daily living; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; NIA-AA = National Institute on Aging – Alzheimer's Association.

b Cognitively impaired by the neuropsychologist but not demented by the examining physician.

c Summed score 1.5 on the 3 functional CDR domains (home and hobbies, community affairs, personal care) Cognitive screening MMSE or short test of mental status normal range, on memory tests or memory components of other cognitive tests performance tended to fall more than 1.5 SD below age-appropriate norms.

References cited here found in the full-length guideline (data supplement).

Table e-2. Effect of stringency of MCI diagnosis used on frequency of MCI in population studies: Narrow vs broad definition

Study (first	Narrow	Broad	Frequency of	Comment
author, y)			MCI	
Anstey, 2008 <sup>e12</sup>	+	-	4.2%	
Fei, 2009e10	+	-	9.7%	
Hanninen, 2002 <sup>e14</sup>	+	-	5.3%	
Purser, 2006 <sup>e16</sup>	+	-	25.0%	Did not require subjective memory complaint in MCI definition but required memory impairment
Busse, 2006 <sup>e20</sup>	+	-	19.3%	4 different MCI definitions used
Das, 2007 <sup>e21</sup>	+	-	6.04%	
Lobo, 2008e22	+	-	20.8%	
Petersen, 2010e24	+	-	16.0%	
Ganguli, 2004 <sup>e9</sup>	+	-	3.2%	
Artero, 2008e18	-	+	42.0%	
Di Carlo, 2007 <sup>e13</sup>	-	+	25.6%	
Louis, 2005e15	-	+	27.3%	
Schonknecht, 2005 <sup>e17</sup>	-	+	13.4%	
Artero, 2008e18	-	+	16.6%	
Boyle, 2006 <sup>e19</sup>	-	+	26.4%	
Lopez, 2007 <sup>e23</sup>	-	+	21.7%	
Wilson, 2007 <sup>e25</sup>	-	+	24.3%	
Lopez, 2003 <sup>e27</sup>	-	+	18.8%	

Abbreviation: MCI = mild cognitive impairment.
References cited here found in the full-length guideline (data supplement).

 $\label{lem:conditional} \textbf{Table e-3. MCI guideline meta-analysis results: Prevalence of MCI by age group (random-effects model)}$ 

Age group	Prevalence
60–64 y	$6.7\%$ (95% CI 3.4%–12.7%) $I^2 = 11.0$
65–69 y	$8.4\%$ (95% CI 5.2%–13.4%) $I^2 = 0$
70–74 y	$10.1\%$ (95% CI 7.5%–13.5%) $I^2 = 5.2$
75–79 y	$14.8\%$ (95% CI 10.1%–21.1%) $I^2 = 60.7$
80–84 y	$25.2\%$ (95% CI 16.5%–36.5%) $I^2 = 0$
60+ y	All studies 15.8% (95% CI 11.8%–20.9%) I <sup>2</sup> = 0
65+y	All studies 16.6% (95% CI 11.5%–23.5%) $I^2 = 13.3$
75+y	All studies 19.4% (95% CI 15.7%–23.7%) $I^2 = 29.7$
80+y	All studies 28.6% (95% CI 20.5%–38.4%) $I^2 = 27.5$
85+y	All studies 37.6% (95% CI 28.1%–48.0%) $I^2 = 24.8$

Abbreviation: MCI = mild cognitive impairment.