A Systematic Review of Clinical Practice Guidelines for Alzheimer's Disease and Strategies for Future Advancements

Amir Abbas Tahami Monfared, MD, PhD^{1,2}; NT Nhan Phan, MPH³; Isobel Pearson, DPhil³; Josephine Mauskopf, PhD⁴; Min Cho, PhD¹; Quanwu Zhang, PhD¹; Harald Hampel, MD, PhD¹

¹Eisai Inc., 200 Metro Blvd., Nutley, NJ 07110

²McGill University, Epidemiology, Biostatistics, and Occupational Health, Montreal, QC,

Canada

³RTI Health Solutions, The Pavilion, Towers Business Park, Wilmslow Road, Didsbury,

Manchester M20 2LS UK

⁴RTI Health Solutions, Research Triangle Park, North Carolina 27709 USA

Corresponding Author:

Amir Abbas Tahami Monfared D Eisai Inc. 200 Metro Blvd., Nutley, NJ 07110, USA <u>Amir_Tahami@eisai.com</u>

A1. INTRODUCTION

Theories of the Alzheimer's continuum have evolved recently. Management options may be changing from symptomatic care in those with mild to moderate dementia to earlier identification and disease-modifying therapies (DMTs). The late-stage clinical development and emerging DMTs call for a substantial paradigm shift in the diagnosis and management of the disease. While there exists several clinical assessment scores that can be used in primary care or specialist settings, these tests alone are not specific for Alzheimer's disease (AD) dementia or mild cognitive impairment (MCI) due to AD, as cognitive impairment may be attributed to several other causes. The biological hallmarks of AD, namely, amyloid plaques and intracellular neurofibrillary tangles, formed by accumulation of amyloid- β peptides and hyperphosphorylated-tau protein, respectively, can be detected years before the onset of cognitive impairment or dementia symptoms; therefore, the use of biomarker tests to detect amyloid and tau is a key development for the early detection of AD pathophysiology [1]. However, assessment of biomarkers via positron emission tomography (PET) imaging or detection in cerebrospinal fluid (CSF) are invasive, expensive, and time and resource consuming [2]. Positron emission tomography (PET)-based molecular imaging using specific radio ligands allows for the regional localization of pathological fibrillar amyloid and tau but is associated with a high cost and very limited global and regional accessibility of equipment. Fluid-based CSF tests [3] are more cost-effective and accessible than PET imaging and allow for the testing of multiple pathophysiological biomarkers, but do not allow brain localization, are still considered invasive procedures in many global healthcare systems, and can be accompanied by inconvenient side effects. These tests, as well as tests for blood-based biomarkers that are currently in development, are not used in the routine care for diagnosis of AD, as the validation and confidence of these methodologies need further strengthening [4]. The progressive establishment of blood-based biomarkers and the validation of multidimensional diagnostic techniques have the potential to change the detection, diagnosis, and management of early AD.

The systematic literature review (SLR) reported in this article aims to summarize the current recommendations for clinical practice related to MCI or AD-related dementia and assess their continuing relevance given the changing paradigm of AD disease management, which is being driven by increased understanding of the biomarkers and other changes in brain structure that lead to AD dementia as well as the development of potential DMTs to slow or prevent disease progression. In this supplement, we present (1) the search strategies used to select clinical practice guidelines for those with MCI or AD-related dementia for review; (2) the screening strategies to identify clinical practice guidelines and detailed tables presenting the characteristics and recommendations for screening, diagnosis, treatment, and monitoring from the 53 identified clinical practice guidelines; (3) an overview of the recommendations for screening, diagnosis, treatment, and monitoring from the 4 most highly cited guidelines (based on Google Scholar data); and (4) an overview of the recommendations for screening, diagnosis, treatment and monitoring from guidelines published before 2018. The main article Results section presents a summary of the recommendations for screening, diagnosis, treatment, and monitoring from clinical practice guidelines published in 2018 or more recently; the Discussion section provides a brief summary of how these recommendations have changed pre-2018 and post-2018.

A2. SEARCH STRATEGIES

Table A-1.Embase Literature Search Strategy. Limits: Humans; No Comments, Letters,
Editorials or Conference Abstracts: 3 March 2022

#1 ('dementia'/mj OR dementi*:ti OR amentia:ti,ab OR demention:ti,ab OR 69, *pre-dementia':ti) AND [embase]/lim 120, #2 ('alzheimer disease'/exp/mj OR alzheimer*:ti OR alzeimer*:ti,ab OR 'cortical sclerosis':ti) AND [embase]/lim 120, #3 ('cognitive defect'/exp/mj OR 'cognitive dysfunction*':ti OR 'cognition disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*:ti OR 265, disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*:ti OR 'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive impairment*':ti OR mei:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim 271, #4 #1 OR #2 OR #3 271, #4 #1 OR #2 OR #3 271, #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim 4,190, #6 #4 AND #5 39, Guidelines 41 5,000, ** #6 #4 AND #5 39,	Search No. Disease	Search Terms	No. of Articles
 #2 ('alzheimer disease'/exp/mj OR alzheimer*:ti OR alzeimer*:ti,ab OR 'cortical sclerosis':ti) AND [embase]/lim #3 ('cognitive defect'/exp/mj OR 'cognitive dysfunction*':ti OR 'cognition disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*':ti OR 'maild cognitive impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim #4 #1 OR #2 OR #3 271; Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best clinical practice*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39; Guidelimes #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'ask force*':ti) AND [embase]/lim 		('dementia'/mj OR dementi*:ti OR amentia:ti,ab OR demention:ti,ab OR	69,854
sclerosis':ti) AND [embase]/lim #3 ('cognitive defect'/exp/mj OR 'cognitive dysfunction*':ti OR 'cognition 265, disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*':ti OR 'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim 271, #4 #1 OR #2 OR #3 271, Management 271, #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim 4,190, #6 #4 AND #5 39, Guidelines 310, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'task force*':ti) AND [embase]/lim 310,		'pre-dementia':ti) AND [embase]/lim	
#3 ('cognitive defect'/exp/mj OR 'cognitive dysfunction*':ti OR 'cognition 265, disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*':ti OR 'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim 271, #4 #1 OR #2 OR #3 271, Management 271, #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim 4,190, #6 #4 AND #5 39, Guidelines 39, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'task force*':ti) AND [embase]/lim 310,	#2	('alzheimer disease'/exp/mj OR alzheimer*:ti OR alzeimer*:ti,ab OR 'cortical	120,762
disorder**:ti OR 'cognitive disorder*':ti OR 'cognitive defect*':ti OR 'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive impairment*':ti OR mei:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim #4 #1 OR #2 OR #3 271. Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190. clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39. Guidelines 39. 310. #7 ('practice guideline'/mj OR guide*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim 310.		sclerosis':ti) AND [embase]/lim	
 'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim #4 #1 OR #2 OR #3 271, Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190, clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39, Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'ask force*':ti) AND [embase]/lim 	#3	('cognitive defect'/exp/mj OR 'cognitive dysfunction*':ti OR 'cognition	265,979
impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental deterioration*':ti) AND [embase]/lim #4 #1 OR #2 OR #3 271. Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190, clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39, Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim		disorder*':ti OR 'cognitive disorder*':ti OR 'cognitive defect*':ti OR	
deterioration*':ti) AND [embase]/lim #4 #1 OR #2 OR #3 271, Management 271, #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim 4,190, #6 #4 AND #5 39, Guidelines 310, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim		'cognitive deficit*':ti OR 'cognitive disabilit*':ti OR 'mild cognitive	
 #4 #1 OR #2 OR #3 271. Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190, clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39. Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'ask force*':ti) AND [embase]/lim 		impairment*':ti OR mci:ti OR 'cognitive decline*':ti OR 'mental	
Management #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190, clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti 0R 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim [embase]/lim #6 #4 AND #5 39, Guidelines 39, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 'ask force*':ti) AND [embase]/lim 310,		deterioration*':ti) AND [embase]/lim	
 #5 ('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best 4,190, clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39. Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim 	#4	#1 OR #2 OR #3	271,639
 clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39. Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim 	Manage	ment	
OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND [embase]/lim #6 #4 AND #5 39, Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim	#5	('diagnosis'/exp/mj OR diagnos*:ti OR screen*:ti OR treat*:ti OR 'best	4,190,991
[embase]/lim #6 #4 AND #5 39, Guidelines 39, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task 50, force*':ti) AND [embase]/lim 50,		clinical practice*':ti,ab OR 'disease management'/exp/mj OR manage*:ti	
#6 #4 AND #5 39, Guidelines 39, #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task 50, force*':ti) AND [embase]/lim 50,		OR 'principles of car*':ti,ab OR 'comprehensive car*':ti,ab) AND	
Guidelines #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim		[embase]/lim	
 #7 ('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR 310, roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim 	#6	#4 AND #5	39,607
roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task force*':ti) AND [embase]/lim	Guidelir	nes	
force*':ti) AND [embase]/lim	#7	('practice guideline'/mj OR guide*:ti OR guidance:ti OR 'road map':ti OR	310,859
		roadmap:ti OR recommend*:ti OR polic*:ti OR 'action plan*':ti OR 'task	
#8 #6 AND #7		force*':ti) AND [embase]/lim	
	#8	#6 AND #7	744

Search No.	Search Terms	No. of Articles
Exclusi	ons	
#9	'animal'/exp NOT 'human'/exp	5,743,928
#10	'comment':ti OR 'letter':it OR 'editorial':it OR [conference abstract]/lim	7,073,328
	OR [conference paper]/lim OR [conference review]/lim	
Total		
#11	#8 NOT (#9 OR #10)	573

Table A-2.MEDLINE Literature Search Strategy. Limits: Humans; No Comments, Letters,
Editorials or Conference Abstracts: 3 March 2022

Search No.	Search Terms	No. of Articles
Disease		
#1	"Dementia" [Majr:NoExp]OR dementi* [Title] OR amentia [Title/Abstract]	68,399
	OR demention[Title/Abstract] OR "pre-dementia"[Title]	
#2	"Alzheimer Disease" [Majr] OR Alzheimer* [Title] OR	100,203
	alzeimer*[Title/Abstract] OR "cortical sclerosis"[Title]	
#3	"Cognitive Dysfunction" [Majr] OR "Cognitive Dysfunction"" [Title] OR	38,930
	"cognition disorder""[Title] OR "cognitive disorder""[Title] OR "cognitive	
	defect*"[Title] OR "cognitive deficit*"[Title] OR "cognitive disabilit*"[Title]	
	OR "mild cognitive impairment*"[Title] OR MCI[Title] OR "cognitive	
	decline*"[Title] OR "Mental Deterioration*"[Title]	
#4	#1 OR #2 OR #3	183,134
Manage	ment	
#5	"Diagnosis" [Majr] OR diagnos* [Title] OR screen* [Title] OR treat* [Title]	5,066,589
	OR "best clinical practice*"[Title/Abstract] OR "Disease	
	Management" [Majr] OR manage* [Title] OR "principles of	
	car*"[Title/Abstract] OR "Comprehensive Car*"[Title/Abstract]	
#6	#4 AND #5	29,115
Guidelin	es	
#7	"Guidelines as Topic"[Majr] OR "Practice Guidelines as Topic"[Majr] OR	359,178
	"Guideline" [Publication Type] OR guide* [Title] OR guidance [Title] OR	
	"road map"[Title] OR roadmap[Title] OR recommend*[Title] OR	
	polic*[Title] OR "action plan*"[Title] OR "task force*"[Title]	
#8	#6 AND #7	535

Search No.	Search Terms	No. of Articles
Exclusio	ns	
#9	"Animals" [Mesh] NOT "Humans" [Mesh]	4,966,357
#10	"Comment" [Publication Type] OR "Letter" [Publication Type] OR	2,040.098
	"Editorial"[Publication Type]	
Total		
#11	#8 NOT (#9 OR #10)	471

A3. SCREENING AND EXTRACTION OF CLINICAL PRACTICE GUIDELINES

This section presents the screening approach used to identify clinical practice guidelines for MCI or AD-related dementia and the data extracted from the 53 MCI and national or international practices identified in the SLR of electronic databases: Embase, MEDLINE, MEDLINE In-Process, CINAHL, PsycINFO, Guideline International Network library, the INAHTA International HTA database; websites and other resources; National Institute for Health and Care Excellence; Scottish Medicine Consortium, Pharmaceutical Benefits Advisory Committee, Canadian Agency for Drugs and Technologies in Health, and Google; plus hand searches of reference lists of the most recent systematic reviews and meta-analyses identified in the review.

A3.1 Screening Method and Inclusion and Exclusion Criteria

- Practice guidelines for inclusion in the data extraction were selected after level 1
 (titles and abstracts of studies) and level 2 (full texts of studies) screening. The
 identified guidelines were reviewed in terms of their level of influence (i.e., Google
 Scholar citations).
- A 2-phase screening process was independently undertaken by 2 reviewers, following a predefined protocol. In phase 1, titles and abstracts were double screened to determine whether to include or exclude them. Progressing to phase 2, two reviewers retrieved full-text articles to ascertain the inclusion or exclusion for data extraction based on the inclusion criteria, types of guidelines, and developing methods. In case of discrepancy, uncertain guidelines were reviewed by a third researcher.

Specifically, guidelines were eligible if they met all the following criteria:

• The guidelines were produced by national or international groups.

- The guidelines focused on MCI relating to AD, early AD, or AD-related dementia populations.
- The guidelines provided recommendations on at least 1 of these outcomes: screening to identify those with MCI or AD-related MCI or AD-related dementia, diagnosis of AD-related MCI or dementia using neuropsychiatric scales, elimination of other causes of MCI or dementia, testing for biomarkers or genes associated with AD, and treatment of those with a diagnosis of AD.
- The guidelines aimed to provide recommendations for clinical practice. Clinical practice guidelines should be developed in a systematic and transparent way and should reflect the strengths of recommendations and the quality of evidence [5]. In this review, the clinical practice guidelines were identified based on keyword searches in the full texts (e.g., practice guidelines) combined with developing process (e.g., systematic review, grading synthesis).

The guidelines were ineligible if they met at least 1 of the following exclusion criteria:

- The guidelines were published by regional groups.
- The guidelines produced recommendations for MCI due to other diseases or other types of dementia.
- No relevant outcomes were presented.
- The guidelines aimed to introduce recommendations for research contexts or longterm national strategies.
- The guidelines represented the consensus of an expert panel rather than national and international groups or were presented as position papers or scientific statements by the authors of the paper.

All inclusion and exclusion processes were fully documented in accordance with the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA).

A3.2 Recommendations Extracted From 53 Clinical Practice Guidelines

Following identification of the clinical practice guidelines, guideline characteristics and recommendations for screening, testing and diagnosis, treatment, and monitoring of MCI and/or AD dementia were extracted from each of the 53 clinical practice guidelines identified. Extraction of the recommendations was performed by 1 researcher and quality control procedures included verification of all extracted recommendations with original sources by a researcher who did not perform the extraction. The extracted recommendations from the national or international practice guidelines are presented in this Supplement in the order of the number of Google Scholar citations (high to low number of Google Scholar citations).

A.3.3 Monitoring Recommendations from the Most Recently Published Guidelines

From the most recently published guidelines, six documents presented recommendations for monitoring MCI or AD dementia progression [6-11]. The Irish dementia guidelines recommended regular physical examination for people aged >65 years [10]. The Korean dementia guidelines suggested monitoring the clinical development of older adults with subjective memory complaints, subjective cognitive impairment, and subjective cognitive decline (SCD) by conducting periodic follow-ups every 1-2 years because those with SCD are more likely to develop dementia or AD dementia than those without SCD [9].

For MCI or dementia, frequent reviews of medications and cognitive status were recommended [8,10].

For patients with AD, NICE recommended that AChE inhibitors should not be stopped because of disease severity alone [11]. Deprescribing AChE inhibitors or memantine should be considered in some situations, with close periodic monitoring and re-initiation of medication if necessary [6,7].

A.3.4 Differences Between the Pre- and Post-2018 Clinical Practice Guideline Recommendations

The pre- and post-2018 practice guidelines share similar recommendations for screening, diagnosis and treatment. Screening is not generally recommended for the general public or asymptomatic population in both earlier and more recent guidelines. Both earlier and recent guidelines recommend screening for those at risk of AD, such as adults with intellectual disability [12], patients older than 75 years who complain of memory impairment or have a family history of memory disorders [13], and individuals suspected of cognitive impairment by a physician despite a lack of complaint [14].

Our review found both pre- and post-2018 guidelines recommend using neuropsychological testing as a complementary tool to detect AD dementia and MCI, although the more recent guidelines suggest more sensitive tests for those with MCI. However, biomarker testing was specifically not recommended in four earlier guidelines and two most recent guidelines, indicating a lack of support for its routine use. While two recent MCI guidelines considered offering biomarker testing to clarify the underlying cause of the cognitive impairment, they did not advocate its use for routine diagnosis [8,15].

The treatment guidelines for AD have remained unchanged over time. This SLR found that AChE inhibitors and memantine are still the standard care for treating AD cognitive symptoms, as recommended in the most recent guidelines [6,11,16,17], which is consistent with the pre-2018 guidelines.

The method to assess the severity of AD dementia in diagnosis or treatment was not clearly defined in both pre- and post-2018 guidelines. Different classification concepts were recommended by each guideline, such as MMSE scores, DSM (III to V) and ICD-10, National Institute of Neurological and Communicative Disorders and Stroke–Alzheimer's Disease and Related Disorders Association (NINCDS-ADRDA) criteria, and staging instruments (e.g., Clinical Dementia Rating). The range of MMSE scores was not standardized across guidelines, and the DSM or NINCDS-ADRDA criteria were not frequently mentioned in recent guidelines.

A.3.5 Identified Published Systematic Literature Reviews

We identified two earlier systematic reviews (one that summarizes guidelines for AD diagnostic testing [18] and one for MCI screening, diagnosis, and treatment [19]) in our guidelines database searches. Unlike our SLR, the one by Chen and colleagues [19] included both guidelines and consensus statements. Arevalo-Rodriguez and colleagues [18] presented recommendations on the use of brief cognitive tests in the diagnosis of patients with suspected AD dementia. They also noted that there are limited clinical studies on biomarkers, and several guidelines identified in that review presented recommendations against their use [18]. In contrast to Arevalo-Rodriguez and colleagues' and our SLR, Chen and colleagues [19] stated that "neuropsychological testing and biomarker assessments are the most recommendations for the identification of prodromal AD in individuals with MCI. It should be noted that the SLR by Chen and colleagues included both English and Chinese language guidelines.

Table A-3.The Diagnosis of Dementia due to Alzheimer's Disease: Recommendations from the
National Institute on Aging-Alzheimer's Association Workgroups on Diagnostic Guidelines for
Alzheimer's Disease [20]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
12299	2011	International	AD dementia	Workgroup	Unlikely	Not applicable
Screening	• N/A					
Testing	■ N/A					
Diagnosis	 "Probal meets Ins Cl Th fol in per increase special in per mutat The v to be "Possibl atypic deme detail etiolo "Probal in per the ce Howe time." "Possibl in the who p "Consid to ma must practi stand. a sequ down of Aβ time, 	ear-cut history of w ae initial and most p llowing categories: rsons who meet the ases the certainty the fically increase the rsons who meet the cion (in APP, PSEN vorkgroup noted that considered in this c a considered in this c a course meets the ntia, but either has or objective cognit ogically mixed press of AD dementia w rsons who meet the ertainty that the bas ever, we do not adv w the AD dementia wi biomarker table, w presents clinically v derations related to ke a diagnosis of A first be satisfied; ical use of biomarke ardization has been uence of events has stream neuronal inj biomarkers over d the reliability of su	tia, and in addition, potoms have a gradu porsening of cognitive (a) Amnestic prese core clinical criteri at the condition rep certainty that the p core clinical criteri (1, or PSEN2), incr at carriage of the ad- ategory." Fore clinical criteri e core clinical criteri a sudden onset of c crite documentation entation." vith evidence of th core clinical criteri is of the clinical de ocate the use of AI th evidence of the re indicate that both vith a non-AD pher b the incorporation D dementia with b ers must follow bes fully accomplished been described wi ury biomarkers bec ownstream neurona ch a hierarchical sci	has the following al onset over mon ion by report or of e deficits are evide matation or (b) Nor ia for probable AI presents an active, rocess is that of A ia for probable AI eases the certainty allele of the apol ia: ria in terms of the cognitive impairme of progressive de e AD pathophysio ia for probable AI mentia syndrome D biomarker tests AD pathophysio n categories of bio notype to meet crim n of biomarkers i iomarker support, et-practice guidelin d; th Aβ pathophysio coming abnormal al injury biomarkers cheme has not bee	ths to years, not sudde oservation; and int on history and exan a-amnestic presentation of dementia, documente evolving pathologic p D pathophysiology of dementia, evidence of that the condition is c ipoprotein E gene was nature of the cognitive ent or demonstrates inscline, or; ological process: Of dementia, biomarker is the AD pathophysio for routine diagnostic p logical process: markers must be posit teria for possible AD" nto AD dementia crift the core clinical diagn	nination in one of the ns; ed cognitive decline rocess, but it does not f a causative genetic aused by AD pathology. not sufficiently specific e deficits for AD sufficient historical evidence may increase logical process. purposes at the present ive for an individual teria cosis of AD dementia pecific contexts, until pming abnormal first and y a hierarchical ranking pses. However, at this blished for use in AD

	"Pathophysiologically proved AD dementia
	 the diagnosis of pathophysiologically proved AD dementia would apply if the patient meets clinical and cognitive criteria for AD dementia, and the neuropathological examination, using widely accepted criteria demonstrates the presence of the AD pathology."
Monitoring	 N/A
Treatment	• N/A
Sponsorship/ Conflict of	 "National Institute on Aging and the Alzheimer's Association charged a workgroup with the task of revising the 1984 criteria for AD dementia"
interest	 "Conflicts of interest were presented, for example:
	 Guy McKhann serves on a Data Safety Monitoring Board for Merck.
	 David Knopman serves on a Data Safety Monitoring Board for Lilly Pharmaceuticals and is an investigator for clinical trials sponsored by Elan Pharmaceuticals, Forest Pharmaceuticals, and Baxter Healthcare
	 Howard Chertkow serves as a consultant to Pfizer Canada, Lundbeck Canada, Janssen Ortho, Novartis Canada, and Bristol Myers Squibb; he receives a research grant from Pfizer Canada
	- Richard Mohs is a full-time employee of Eli Lilly and Company and holds stock in Lilly"

AA = Alzheimer's Association; AD = Alzheimer's disease; N/A = not applicable; NIA = National Institute on Aging.

Table A-4.The Diagnosis of Mild Cognitive Impairment due to Alzheimer's Disease:Recommendations from the National Institute on Aging-Alzheimer's Association Workgroups
on Diagnostic Guidelines for Alzheimer's Disease [21]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
8778	2011	International	MCI due to AD	Workgroup	Unlikely	Not applicable			
Screening	 N/A 								
Testing	 N/A 								
Diagnosis	"MCI—	-Criteria for the cl	inical and cogniti	ive syndrome					
	 conce in con impair more backş prese perfo not de impair requi "Cognit 	ern regarding a chan mparison with the p irment in one or mo cognitive domains ground; rvation of independ rming complex func emented: These cog irment in social or o res evidence of intra tive characteristics	age in cognition: T erson's previous l re cognitive doma that is greater than ence in functional ctional tasks which nitive changes sho occupational funct aindividual change of MCI:	There should be evi evel; ins: There should be a would be expected abilities: Persons the they used to perform ould be sufficiently ioning. It should be	be evidence of lower p ed for the patient's age with MCI commonly h form previously; wild that there is no e e emphasized that the o	and educational nave mild problems evidence of a significan diagnosis of MCI			
	 cognitive assessment: impairment in episodic memory (i.e., the ability to learn and retain new information) is most commonly seen in MCI patients who subsequently progress to a diagnosis of AD dementia. Various tests are suggested for identifying those MCI who have a high likelihood of progressing to AD dementia, including the Free and Cued Selective Reminding Test, the Rey Auditory Verbal Learning Test, and the California Verbal Learning Test; 								
	 Summary of clinical and cognitive evaluation; 								
	• it is important to obtain longitudinal assessments of cognition, whenever possible;								
	 cautionary issues pertaining to cognitive assessment: It is important to emphasize that virtually all cognit tests are sensitive to differences in age, education (i.e., literacy), and/or cultural variation among individuals; 								
	 to meet the core clinical criteria for MCI, it is necessary to rule out other systemic or brain could account for the decline in cognition: 								
	 Consider role of autosomal genetic mutations for AD 								
	 Consider role of genes that increase risk for AD" 								
	"Biomarkers and levels of certainty for the diagnosis of MCI due to AD								
	 biomarkers indicating a high likelihood that the MCI syndrome is due to AD: A positive Aβ biom a positive biomarker of neuronal injury; biomarkers indicating an intermediate likelihood that the MCI syndrome is due to AD: A positive Aβ biomarker in a situation in which neuronal injury biomarkers have not been or or tested; or 								
		-	of neuronal injury	in a situation in w	hich Aβ biomarkers h	ave not been or cannot			
	 be tested. situations in which biomarker information is uninformative: Results fall within ambiguous ranges (neither clearly positive nor negative) or biomarkers conflict with one another. In this category are also individuals in whom biomarkers have NOT been obtained; 								

	 biomarkers that suggest that the MCI syndrome is unlikely to be due to AD: The definitive absence of evidence of either Aβ deposition or neuronal injury strongly suggests that the MCI syndrome is not due to AD. In such situations, search for biomarkers that reflect alternative pathological processes should be considered."
Monitoring	 N/A
Treatment	 N/A
Sponsorship/ Conflict of interest	 The National Institute on Aging and the Alzheimer's Association "Conflicts of interest were presented, for example: Marilyn Albert serves as a consultant to Genentech and Eli Lilly and receives grants to her institution from GE Healthcare. Steven DeKosky serves as a consultant to Eisai, Merck, Elan/Wyeth, Novartis, he serves on the advisory board of Pfizer and provides clinical services to United Healthcare
	 Bruno Dubois serves as a consultant to Affiris, Pierre Fabre, and Eisai, serving on a scientific advisory board for Bristol-Meyers Squibb, Roche, Pfizer, Eli Lilly, and GE Healthcare, and receives grants to his institution from Novartis, Roche, and Eisai"

AA = Alzheimer's Association; AD = Alzheimer's disease; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
2253	2001	US	Suspected AD or suspected dementia	Panel selection + SLR + evidence evaluation	Unlikely	No		
Screening	 "Depression is a common, treatable comorbidity in patients with dementia and should be screened for: B12 deficiency is common in the elderly, and B12 levels should be included in routine assessments of the elderly Because of its frequency, hypothyroidism should be screened for in elderly patients Unless the patient has some specific risk factor or evidence of prior syphilitic infection, or resides in one of the few areas in the United States with high numbers of syphilis cases, screening for the disorder in patients with dementia is not justified" 							
Diagnosis and testing	 "The DSM-III-R definition of dementia is reliable and should be used routinely" "The NINCDS-ADRDA for the diagnosis of probable AD or DSM-IIIR criteria for DAT should be routinely used" "Linear or volumetric MR or CT measurement strategies for the diagnosis of AD and are not recommended for routine use at this time" "For patients with suspected dementia, SPECT cannot be recommended for routine use in either initial differential diagnosis as it has not demonstrated superiority to clinical criteria" "PET imaging is not recommended for routine use in the diagnostic evaluation of dementia at this time" "Structural neuroimaging with either a non-contrast CT or MR scan in the routine initial evaluation of patients with dementia is appropriate" "Routine use of APOE genotyping in patients with suspected AD is not recommended at this time" "There are no other genetic markers recommended for routine use in the diagnosis of AD" "Testing for tau mutations or AD gene mutations is not recommended for routine evaluation in patients with FTD at this time" 					d are not recommended use in either initial or mentia at this time" itial evaluation of ed at this time" f AD"		
Monitoring	■ N/A							
Treatment	■ N/A							
Sponsorship/ Conflict of interest	devel ■ "This Geria	oping practice p guideline has b trics Society."	arameters for physic	ians" American Associatic	my of Neurology (AA n of Neuroscience Nu	N) is charged with urses and the American		

Table A-5.Practice Parameter: Diagnosis of Dementia (an Evidence-Based Review). Report of
the Quality Standards Subcommittee of the American Academy of Neurology [22]

AA = Alzheimer's Association; AAN = American Academy of Neurology; AD = Alzheimer's disease; APOE = apolipoprotein E; CSF = cerebrospinal fluid; CT = computed tomography; DAT = "Dementia of the Alzheimer type"; DSM-IIIR= *Diagnostic and Statistical Manual of Mental Disorders, Third Edition, Revised*; FTD = frontotemporal dementia; MR = magnetic resonance; NIA = National Institute on Aging; NINCDS-ADRDA = National Institute of Neurologic, Communicative Disorders and Stroke–AD and Related Disorders Association; PET = positron emission tomography; SPECT= single-photon emission computerized tomography; US = United States.

Table A-6.Practice Guideline Update Summary: Mild Cognitive Impairment Report of the
Guideline Development, Dissemination, and Implementation (Subcommittee of the American
Academy of Neurology) [8]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
1033	2018	US	MCI relating to AD	Panel selection+ SLR + evidence evaluation	Unclear	No
Screening	clinic Clinic and as medic	ians should as icians should e ssess for and tr cations should	sess for MCI and no evaluate patients wit reat behavioral/neuro be discontinued who	t assume the concerns h MCI for modifiable opsychiatric symptom ere possible and beha	s are related to norma risk factors, assess fo ns (Level B). Cognitiv vioral symptoms treat	or functional impairment, vely impairing ted (Level B)."
Testing	 "Clinicians should assess for MCI with validated tools in appropriate scenarios (Level B)." "Various instruments have acceptable diagnostic accuracy for detecting MCI, with no instrument being superior to another." "For patients suspected to have MCI, clinicians who lack the necessary experience should refer these patients to a specialist with experience in cognition (level B)" for evaluation for underlying causes. "For patients diagnosed with MCI, clinicians should perform a medical evaluation for MCI risk factors that are potentially modifiable (Level B)" because MCI is associated with reversible causes of cognitive impairment, including medication side effects, sleep apnea, depression, and other medical conditions. "For interested patients, clinicians may discuss the option of biomarker research or refer patients, or both, if feasible, to centers or organizations that can connect patients to this research (e.g., ClinicalTrials.gov) (Level C)." "When performing a Medicare Annual Wellness Visit, clinicians should not rely on historical report of subjective memory concerns alone when assessing for cognitive impairment (Level B)." "For patients and families asking about biomarkers in MCI, clinicians should counsel that there are no accepted biomarkers available at this time (Level B)" because no biomarkers have been clearly shown to date to predict progression in patients with MCI. "This guideline does not review the rapidly evolving field of biomarker research in MCI; the guideline panel determined that this should be the subject of a future guideline or systematic review." 					
Diagnosis	diagn • "For j patier • "Clini	osis of MCI (I patients suspec its to a special	Level B)." eted to have MCI, cl ist with experience i	inicians who lack the n cognition (Level B)	necessary experience	
Monitoring	 "For j 	patients diagno	-	-	ACI over time (Level serial assessments ov	B)." ver time to monitor for
Treatment	overa is bec	ll approach to ause treatment	management (Level t with exercise traini	B). Clinicians may rong for 6 months is like	-	

	 "For patients diagnosed with MCI, clinicians should counsel the patients and families that there are no pharmacologic or dietary agents currently shown to have symptomatic cognitive benefit in MCI and that no medications are FDA-approved for this purpose (Level B)."
	 "If clinicians choose to offer cholinesterase inhibitors, they must first discuss with patients the fact that this is an off-label prescription not currently backed by empirical evidence (Level A)."
Sponsorship/ Conflict of interest	"This practice guideline was developed with financial support from the American Academy of Neurology. Authors who serve as AAN subcommittee members, methodologists, or employees, past or present were reimbursed by the AAN for expenses related to travel to subcommittee meetings where drafts of manuscripts were reviewed."
	"There were several potential conflicts of interest listed, for example:
	• R. Petersen, O. Lopez, D. Marson have served as a consultant for several pharmaceutical companies.
	 M. Ganguli has served on advisory committee for Biogen
	 G. Day holds stock in ANI pharmaceuticals"

AA = Alzheimer's Association; AAN = American Academy of Neurology; FDA = US Food and Drug Administration; MCI = mild cognitive impairment; NIA = National Institute on Aging; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines	
458	2008	US	patients with dementia (specific for AD)	SLR-based	Likely	No	
Screening	 N/A 						
Testing	■ N/A						
Diagnosis	 N/A 						
Monitoring	 N/A 						
Treatment	 "Clinicians should base the decision to initiate a trial of therapy with a cholinesterase inhibitor or memantine on individualized assessment. (Grade: weak recommendation, moderate-quality evidence.)" "Clinicians should base the choice of pharmacologic agents on tolerability, adverse effect profile, ease of use, and cost of medication. The evidence is insufficient to compare the effectiveness of different pharmacologic agents for the treatment of dementia. (Grade: weak recommendation, low-quality evidence.)" "There is an urgent need for further research on the clinical effectiveness of pharmacologic management of dementia." 						
Sponsorship/ Conflict of interest	Physi "Fina Physi "Con – Ho – Gr	cians" ncial support fo cians' and Amo flicts of interest pnoraria: P. San ants received: V	or the development erican Academy of :: taguida (American V. Snow (Centers fo	of this guideline co Family Physicians' College of Physicia or Disease Control a	mes exclusively from the operating budgets."		

Table A-7.Current Pharmacologic Treatment of Dementia: A Clinical Practice Guideline from
the American College of Physicians and the American Academy of Family Physicians [23]

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging; US = United States.

Table A-8.American Psychiatric Association Practice Guideline for the Treatment of Patients
with Alzheimer's Disease and Other Dementias. Second Edition [24]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
391	2007	US	Patients with AD	APA Guideline Development Process (literature review + evidence tables + workgroup)	No	No				
Screening	 N/A 									
Testing	amo evalu "Bio clini "Tes "Thr inhe "Gen resul "Gen	 "Neuropsychological testing may help to characterize the extent of cognitive impairment, to distinguish among the types of dementias, and to establish baseline cognitive function. It is particularly useful in the evaluation of individuals who present with mild cognitive impairment" "Biomarker techniques remain investigational, and there is insufficient evidence for their utility in routine clinical practice" "Testing for apolipoprotein E4 (APOE4) is not recommended for use in diagnosis" "Three genes associated with the disease have been identified in families with apparent autosomal dominant inheritance of early onset Alzheimer's disease; which are APP, PSEN1, PSEN2" "Genetic testing is best done in conjunction with experts familiar with Alzheimer's disease genetics, as test results require careful interpretation" "Genetic counseling and sometimes genetic testing may also be appropriate for some patients with other 								
Diagnosis	 "The profinition of the profile of th	e diagnosis c ile of Alzhei ory, physical ecific functic acking the c e Clinical De DSM-IV-TR et,' as well a	of Alzheimer's dis mer's disease and and neurological onal staging (FAS ourse of Alzheime ementia Rating is , Alzheimer's dis s 'With and With	a commonly used scale to sta ease is subdivided into the su out Behavioral Disturbance'.	e dementia have been nd laboratory tests" cloped, is widely used, nge dementia severity" btypes 'With Early On "	ruled out by careful , and can be very useful nset' and 'With Late				
Monitoring	 "Should determine if any treatable psychiatric or general medical conditions (e.g., major depression, thyro disease, vitamin B12 deficiency, hydrocephalus, structural brain lesion) might be causing or exacerbating the dementia" "Functional neuroimaging using brain positron emission tomography (PET) scans may contribute to diagnostic specificity in certain instances and has been recently approved by Medicare for the indication or differentiating between Alzheimer's disease and frontotemporal dementia" "Ongoing assessment includes periodic monitoring of the development and evolution of cognitive and 									
	 noncognitive psychiatric symptoms and their response to intervention [I]" "In order to offer prompt treatment, enhance safety, and provide timely advice to the patient and family, it is generally necessary to see patients in routine follow-up at least every 3-6 months [II]" "More frequent visits (e.g., up to once or twice a week) or even psychiatric hospitalization may be required for patients with acute, complex, or potentially dangerous symptoms or for the administration of specific therapies [I]" 									
Treatment	gen	eral medical	evaluation of the	ementia should be based on a nature and cause of the cogn id alliance with the patient an	itive deficits and assoc					

	 "Three ChEIs—donepezil, rivastigmine, and galantamine—should be offered to patients with mild to moderate AD after a thorough discussion of their potential risks and benefits [I], and they may be helpful for patients with severe AD [II]."
	 "The constructs of mild cognitive impairment and vascular dementia are evolving and have ambiguous boundaries with AD. The efficacy and safety of ChEIs for patients with these disorders are uncertain; therefore, no specific recommendation can be made at this time, although individual patients may benefit from these agents [II]."
	 "Memantine may be considered in patients with moderate and severe AD (I) There is some evidence of its benefit in mild AD [III]"
	 "Vitamin E (α-tocopherol) is no longer recommended for the treatment of cognitive symptoms of dementia because of limited evidence for its efficacy as well as safety concerns [II]."
	 "NSAIDs, statin medications, and estrogen supplementation (with conjugated equine estrogens) have shown a lack of efficacy and safety in placebo-controlled trials in patients with AD and therefore are not recommended [I]"
	 "Treatments of depression, psychosis and agitation, and sleep disturbances were discussed and recommended in the guideline"
Sponsorship/ Conflict of	 "The development of the APA Practice Guidelines is not financially supported by any commercial organization."
interest	 "Conflicts of interest were presented, but the Executive Committee on Practice Guidelines has reviewed this guideline and found no evidence of influence from relationships between authors and other stakeholders."

AA = Alzheimer's Association; AD = Alzheimer's disease; APA = American Psychiatric Association; ChEI = cholinesterase inhibitor; DSM-IV-TR = Diagnostic and Statistical Manual of Mental Disorders, fourth edition, text revision; NIA = National Institute on Aging; NSAID = nonsteroidal anti-inflammatory agent; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
375	2019	International	Adults with MCI	Panel selection+ SLR + evidence evaluation	No	No
Screening	 N/A 					
Testing	■ N/A					
Diagnosis	 N/A 					
Monitoring	 N/A 					
Treatment	 N/A 					
	 "Phys Low, 3 "Interrisk of "The I impain "A heath "Vitarrecom "Interrwith n demer "Cogrimpain 	SoR: conditional)" ventions for tobacc f cognitive decline Mediterranean-like ment to reduce the althy, balanced die y diet (QoE: low to nins B and E, poly mended to reduce ventions aimed at n ormal cognition ar nitia in addition to co nitive training may	e recommended to to cessation should and dementia in a diet may be recor- e risk of cognitive t should be recom- o high, SoR: stron- unsaturated fatty a the risk of cogniti- reducing or ceasin- ad mild cognitive is the health benefit be offered to olde	adults with MCI to re d be offered to adults with ddition to other health nmended to adults with decline and/or dement mended to all adults b g)" acids and multi-comple ve decline and/or dem g hazardous and harm impairment to reduce to ts. (QoE: moderate, So r adults with normal c decline and/or dement	who use tobacco since benefits (QoE: Low, th normal cognition a tia (QoE: moderate, S ased on WHO recom ex supplementation s entia (QoE: moderate ful drinking should b the risk of cognitive o oR: conditional)" ognition and with mi	e they may reduce the , SoR: strong)" and mild cognitive Strength: conditional) amendations on hould not be e, SoR: strong)" e offered to adults decline and/or ld cognitive
Sponsorship / Conflict of interest	Prever		s of America; and	nd, United Kingdom; the WHO Core Volur		

Table A-9. Risk Reduction of Cognitive Decline and Dementia: WHO Guidelines [25]

AA = Alzheimer's Association; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging; QoE = Quality of Evidence; SoR = Strength of Recommendation; WHO = World Health Organization.

Table A-10.Genetic Counseling and Testing for Alzheimer Disease: Joint Practice Guidelines of
the American College of Medical Genetics and the National Society of Genetic Counselors [26]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
346	2011	US	Suspected AD or patients with AD	NSGC and ACMG workgroup	Not discussed	No		
Screening	 N/A 							
Testing	conti "Ger videa "DT" "For fa Testing situation a syr unkr autos a rela "For fa gene utilit if a p testin	 "Pediatric testing for AD should not occur. Prenatal testing for AD is not advised if the patient intends to continue a pregnancy with a mutation" "Genetic testing for AD should only occur in the context of genetic counseling (in-person or through videoconference) and support by someone with expertise in this area." "DTC APOE testing is not advised" "For families in which autosomal dominant AD gene mutation is a possibility: Testing for genes associated with early-onset autosomal dominant AD should be offered in the following situations: a symptomatic individual with EOAD in the setting of a family history of dementia or in the setting of ar unknown family history (e.g., adoption); autosomal dominant family history of dementia with one or more cases of EOAD; a relative with a mutation consistent with EOAD (currently PSEN1/2 or APP)" "For families in which autosomal dominant AD is unlikely: genetic testing for susceptibility loci (e.g., APOE) is not clinically recommended due to limited clinical utility and poor predictive value; 						
Diagnosis	 "A ≥ neur deat! "Me relat may "A ricons fami "Pati redu 	 "A ≥3-generation family history should be obtained, with specific attention to the age of onset of any neurologic and/or psychiatric symptoms, type of dementia and method of diagnosis, current ages, or age death (especially unaffected relatives), and causes of death." "Medical records should be used to confirm AD diagnosis when feasible. The history of additional relatives may prove useful, especially in small families or those with a preponderance of early death that may mask a history of dementia" "A risk assessment should be performed by pedigree analysis to determine whether the family history is consistent with EOAD or LOAD and with autosomal dominant (with or without complete penetrance), familial, or sporadic inheritance." 						
Monitoring	 N/A 							
Treatment	Medica	Genetics (ACI	es of the National Soci MG) are developed by as not reported"	•		the American College of		

AA = Alzheimer's Association; ACMG = American College of Medical Genetics; AD = Alzheimer's disease; APOE = apolipoprotein E; APP = amyloid beta A4 protein; DTC = direct to customer; EOAD = early onset AD; HD = Huntington disease; LOAD = Late onset AD; PSEN1/2 = presenilin 1/2; N/A = not applicable; NIA = National Institute on Aging; NSGC = National Society of Genetic Counselors; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
299	2008	Canada	Suspected AD or suspected dementia	SLR-based (grading evidence)	Unclear	No				
Screening	 N/A 									
Diagnocis	Scree Form and th new r • "Brie be us • "For : symp chron recon • "Gen diagn new r • "Crar the gy • "The magn mana "The dia Neurops settings "Neurop • addre witho • addre deme • detern level	n, the General F , may be more a ne normal state. recommendation f cognitive tests ed for this purper all patients who toms or presents ic metabolic en- mendation unc- etic testing, incl- osing Alzheime recommendation nial computed to ideline) are pre- re is fair evidence etic resonance i gement (grade F upposis and differ ychological test (grade B, level 2 sychological test ssing the disting- out dementia, an ssing the risk of nitia to dementia mining the differ 2; new recomm	Practitioner Assessmer locurate than the Mini- There is insufficient e n)." I have not been develo ose (grade D, level 2; 1 have a clinical presen ation, only a basic set cephalopathy producin hanged)" uding screening for the er disease because the p n)" omography scanning is esent (grade B, level 3; ce to support the use o maging to rule in cond 3, level 2; new recommendation cing alone cannot be us 2; new recommendation sting may aid in: ction between normal a d early dementia (grad f progression from mill a or Alzheimer disease rential diagnosis of de endation)."	at of Cognition and Mental State Exam- vidence to recommendation new recommendation tation consistent words and the positive and negation of laboratory tests and chronic confusion e apolipoprotein Epositive and negation recommended if of recommended if of recommendation f structural neuroin comitant cerebrova mendation)." ementia is currentl sed for this purpose on)." aging, mild cognit le B, level 2; new part d cognitive impain (grade B, level 2; mentia and other se	I the Behavioural Neu nination in discrimin nend one test over the e between dementia s ion)." with Alzheimer diseas should be ordered to on and memory loss (gene, is not recomm ive predictive values one or more of the cri- unchanged)" maging with compute iscular disease that ca y a clinically integrat e and should be used ive impairment or cog recommendation); ment or cognitive im new recommendation syndromes of cognitive	grade B, level 3; ended for the purpose of are low (grade E, level 2; teria shown in box 1 (in d tomography or n affect patient ive one. selectively in clinical gnitive impairment pairment without n); and ve impairment (grade B,				
Diagnosis	currer • "The ADR criter	ntly in use (grad sensitivity of cl DA criteria rem ia is recommend	ains high. The specific ded (grade A, level 1;	ommendation)." ssible or probable city is lower. The o new recommendat	Alzheimer disease ba continued use of the N ion).	ased on the NINCDS– NINCDS–ADRDA				
	memo	 "Mild" AD can be diagnosed with a high degree of specificity, when the presenting clinical picture is one of memory impairment (grade B, level 1; new recommendation)." 								
Monitoring	 N/A 									
Treatment	 N/A 									

 Table A-11.
 Diagnosis and Treatment of Dementia: 2 Diagnosis [27]

Sponsorship /	 "Conflicts of interest were presented:
Conflict of interest	 Alain Robillard has been a member of the speaker's board, has served as a consultant to or has given lectures sponsored by Janssen-Ortho, Novartis, Pfizer and Lundbeck; he has received travel assistance to attend scientific meetings by Novartis, Pfizer and Janssen-Ortho; and he is the principal investigator for a number of clinical trials sponsored by the previously named companies
	 Tiffany Chow has served as a consultant to Janssen-Ortho and has received speaker fees or educational grants from Novartis and Lundbeck
	 Hyman Schipper has served as a consultant to Osta Biotechnologies, Teva Neurosciences and Caprion Pharmaceuticals; he holds equity in Molecular Biometrics and stock options in Osta Biotechnologies
	 Andrew Kertesz has served as a consultant and has received honoraria, speaker fees and travel assistance from Pfizer, Janssen-Ortho, Novartis and Lundbeck."

AA = Alzheimer's Association; AD = Alzheimer's disease; N/A = not applicable; NIA = National Institute on Aging; NINCDS-

ADRDA = National Institute of Neurological and Communicative Disorders and Stroke and the Alzheimer's Disease and Related Disorders Association.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
197	2002	US	Patients with AD	Workgroup	No	No				
Screening	 N/A 									
Testing	■ N/A									
Diagnosis		•			sease with the patient a patient's abilities."	and family in a manner				
Monitoring	mob relia	 "Conduct and document assessments of the following: daily function, including feeding, bathing, dressing, mobility, toileting, continence, and ability to manage finances and medications; cognitive status, using a reliable and valid instrument such as the Mini-Mental State Examination; other medical conditions; behavioral problems, psychotic symptoms, and depression." 								
		"Reassess the patient every 6 months or more frequently if indicated."								
		"Identify the primary caregiver and assess the adequacy of family and other support systems.""Assess the culture, values, primary language, and decision-making process of the patient and family."								
	■ "Ass	sess the culture, v	alues, primary lang	guage, and decisio	n-making process of t	he patient and family."				
Treatment	chol activ	 "Develop and implement an ongoing treatment plan, with defined goals that include the following: use of cholinesterase inhibitors, if clinically indicated, to treat cognitive decline; referral for appropriate structured activities such as exercise, recreation, and adult day care; appropriate treatment of comorbid medical conditions" 								
	envi ager	 "Treat behavioral problems and mood disorders using the following: nonpharmacologic approaches such as environmental modification, task simplification, and appropriate activities; referral to social service agencies or support organizations, including the Alzheimer's Association Safe Return Program for people who wander; medications, if clinically indicated" 								
Sponsorship /	"The au	uthors indicate the	at they do not have	any conflicts of in	nterest					
Conflict of interest	Jans	 Dr. Cummings has served as a consultant and conducted research for AstraZeneca L.P., Bayer Corporation, Janssen Pharmaceutica Products, L.P., Eli Lilly and Company, Novartis Pharmaceuticals Corporation, Parke-Davis, and Pfizer Inc. 								
	■ Dr.]	Frank has served	as a consultant for	Novartis Pharmac	ceuticals.					
	Health	The work was supported in part by California's Department of Health Services and by grant from the Federal Health Resources and Services Administration's Bureau of Primary Health Care and Administration on Aging and the Los Angeles chapter of the Alzheimer's Association."								

Table A-12.Guidelines for Managing Alzheimer's Disease: Part I. Assessment...Part I of a Two-
Part Article [28]

AA = Alzheimer's Association; AD = Alzheimer's disease; N/A = not applicable; NIA = National Institute on Aging; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
193	2002	US	Patients with AD	Workgroup	No	No
Screening	 N/A 					
Testing	 N/A 					
Diagnosis	 N/A 					
Monitoring	prob repor funct "Brid for 6 "ChH deter	lems) can be dete t, a neuropsycho- tional changes." ef mental status t to 12 months is EIs should be dis ioration continue	logic assessment or m	ician's global ass ental status quest nsitive measures ssess potential be ts develop and do ate after 6 to 12 r	essment of the patient ionnaire, or evidence of the cognitive effect nefit."	t, the primary caregiver's of behavioral or ts of ChEIs. Observation ce is poor, or
Treatment	Alzh • "Tac • "Cur • "Insu prod • "Sub	eimer's disease (rine is no longer rent expert conse afficient evidence ucts such as Ginl stantial evidence	nine, and galantamine AD)." considered first-line the ensus recommends the e is currently available cgo biloba in patients has shown that estrog nacologic intervention	reatment for AD. use of vitamin E to recommend tr with AD." gens do not benefi	, ," eatment with NSAID it cognitive function a	s or nutraceutical fter the onset of AD."
Sponsorship/ Conflict of interest	• The	authors indicated	that they do not have	any conflicts of i	nterest.	

 Table A-13.
 Guidelines for Managing Alzheimer's Disease: Part II. Treatment [29]

AA = Alzheimer's Association; AD = Alzheimer's disease; ChEI = cholinesterase inhibitor; N/A = not applicable; NIA = National Institute on Aging; NSAID = nonsteroidal anti-inflammatory drug; US = United States.

Table A-14.Update on Appropriate Use Criteria for Amyloid PET Imaging: Dementia Experts,
Mild Cognitive Impairment, and Education. Amyloid Imaging Task Force of the Alzheimer's
Association and Society for Nuclear Medicine and Molecular Imaging [30]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
167	2013	International	Patients with MCI, uncertain dementia/AD	Workgroup	No	No
Screening	 N/A 					
Testing	 N/A 					
Diagnosis	amyle "Any resolv it wil "Den and d "Amy that c "The the re "Amy patho "Dev	oid PET can enable initial constraint or we and that requiring l be used only undenentia expert and PH late of onset of symp yloid PET is indicat conforms to establish scope of use of am equirement for etiology yloid PET could be ology is expected to elop educational pro-	more effective mana a amyloid PET due t g a dementia expert fa r appropriate circum ET physician would l ptoms, in the medica ed only for those wh hed consensus criterion yloid PET would be ogic uncertainty and appropriately used " increase diagnostic ograms to increase a	agement. o the limited avail to order the scan is stances." be required to doc al record of each p to, according to the ia (indication 1 in substantially limit the requirement for when knowledge certainty and alter wareness of the ar	e dementia expert, car the AUC document)." ed by 2 prerequisites i or a change in patient r of the presence or abso	a expert will gradually imize the potential that nation, including age ry a diagnosis of MCI mposed by the AUC, management." ence of [amyloid-ß] te use criteria and
Monitoring	■ N/A					
Treatment	 N/A 					
Sponsorship/ Conflict of interest	No poter	ntial conflict of inte	rest relevant to this a	article was reporte	d	

AA = Alzheimer's Association; AUC = appropriate use criteria; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging; PET = positron emission tomography.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
140	2011	US	Patients with AD	Literature review	No	Yes		
Screening	 N/A 							
Testing	■ N/A							
Diagnosis	 N/A 							
Monitoring	 N/A 							
Treatment	diseas "Com consid "Atyp associ "Nons not re "Phys	 "Acetylcholinesterase inhibitors are modestly effective in patients with mild to moderate Alzheimer disease, although limited by their adverse effects (Evidence rating A)" "Combination therapy with an acetylcholinesterase inhibitor and memantine (Namenda) should be considered in patients with moderate to severe Alzheimer disease (Evidence rating B)." "Atypical antipsychotic agents can improve some behavioral manifestations of Alzheimer disease but are associated with increased mortality in older patients (Evidence rating B)." "Nonsteroidal anti-inflammatory drugs, vitamin E, testosterone, estrogen, statins, and insulin sensitizers are not recommended for the treatment of Alzheimer disease (Evidence rating B)." 						
Sponsorship / Conflict of interests	No relev	ant financial af	filiations to disclos	e				

Table A-15. Treatment of Alzheimer Disease [31]

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
128	2016	International	Patients with MCI, probable AD, possible AD	SNMMI/EANM workgroup	Not discussed	No
Screening	 N/A 					
Testing	■ N/A					
Diagnosis	 the pa the coatypic The p ≤ 65 y The use the pa detern the pa apolip the pa a test The pa insura 	ttient has persistent ore clinical criteria f cal clinical course of atient has progressi years old). of amyloid PET is of attient meets the corre- nine the severity of attient is asymptoma poprotein E; attient has a cognitiv in lieu of genotypin attient is asymptomance coverage, or en- ove appropriate-use therapies, and furth	or progressive une: for possible AD are r an etiologically m ive dementia, and th considered inapprop e clinical criteria fo 'dementia; tic and either has a re complaint that ha ng is needed for a p atic, or the imaging mployment screenin criteria have not be	satisfied but there is nixed presentation; ne age of onset was a priate when any of the r probable AD and he family history of Al s not been confirme atient who is a suspec- is to be performed is ng)."	s an unclear clinical atypically early (usu- ne following is true: nad a typical age of c D or has been shown d on clinical examin ected autosomal dom for nonmedical reaso	onset, there is a need to to carry the e4 allele of ation; inant mutation carrier; ons (e.g., legal, use of possible future
Monitoring	■ N/A					
Treatment	 N/A 					
Sponsorship/ Conflict of	Europ	ean Association of	Nuclear Medicine		ecular Imaging (SNI	MMI) and The
interest	 Confl 	ict of interest was r	not reported			

Table A-16.SNMMI Procedure Standard/EANM Practice Guideline for Amyloid PET Imaging
of the Brain 1.0 [32]

 $AA = Alzheimer's Association; AD = Alzheimer's disease; anti-A\beta = a pathologic hallmark of Alzheimer disease; EANM = European Association of Nuclear Medicine; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging; PET= Positron emission tomography; SNMMI = Society of Nuclear Medicine and Molecular Imaging.$

Table A-17.Practice Guidelines for the Clinical Assessment and Care Management of
Alzheimer's Disease and Other Dementias Among Adults With Intellectual Disability [12]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
106	1996	International	people with intellectual disability who are at risk of AD, or with AD	Workgroup	Unlikely	No
Screening	indica Adults w	ating the onset of de with intellectual disa	ementia bility who are at ris	sk of Alzheimer's	e of risk factors and r disease include those are from families witl	over 50 years of age,
Testing	■ N/A					
Diagnosis			•		sis of AD, it is necessoriate clinical test resu	ary to observe a well- lts."
Monitoring		nt review of all med effective medicatio		y, with the goal o	f using the fewest num	nber and lowest possible
	-	gns and symptoms e is necessary or ev		nentia do not mea	n that a change of fam	iliar program or
Treatment	■ N/A					
Sponsorship / Conflict of interest	confe		s from the National	Institutes of Agin		was funded by nd Human Development
	Devel the W	lopmental Disabiliti aisman Center at th	ies, the New York S ne University of Wi	State Institute for I sconsin-Madison,		ardation and relopmental Disabilities, n Research and Training
	 "Cont 	flicts of interest we	re not presented"			

AA = Alzheimer's Association; AD = Alzheimer's disease; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
105	2016	Australia	Patients with dementia, patients with AD	Adapted from existing guidelines using ADAPTE methodology	No	No				
Screening	 Clinical cognitive assessment should include examination with a screening tool with established reliability and validity The committee recommended review of people with MCI after 6-18 months 									
Testing	 A number of tools are recommended in the guidelines including the MMSE. The KICA tool for remote areas. People with dementia who develop behavioral and psychological symptoms should be offered a comprehensive assessment at an early opportunity by a professional skilled in symptom assessment and management The guidelines recommend the need to understand the person and symptoms via a comprehensive assessment and analysis of the behavior, behavior description and consequence (ABC approach) 									
Diagnosis	inforr or ma "The "More are no "Peop or ser "The	 "The guidelines recommend a systematic approach to diagnosing dementia; this includes patient and informant history taking, cognitive assessment, medication review, blood tests and computed tomography or magnetic resonance imaging to exclude other cerebral pathologies." "The use of single-photon emission computed tomography is not recommended." "More recent diagnostic techniques using biomarkers (including the use of positron emission tomography) are not recommended for routine use" "People with a possible diagnosis of dementia should be offered referral to memory assessment specialists or services for a comprehensive assessment" "The medical practitioner should be honest and respectful and use a gradual and individualized approach when communicating the diagnosis to the person with dementia and their carer(s) and family" 								
Monitoring	N/A									
Treatment	mode: use." • "The functi	rate Alzheimer's combination of a ional decline for	disease (AD) in or	rder to delay functiona emantine could be con rate to severe AD"	al decline, and the gu	l for people with mild to udelines support their g the symptoms of				
	 "People with AD, vascular dementia or mixed dementias with mild-to-moderate behavioral and psychological symptoms of dementia should not usually be prescribed antipsychotic medications because of the increased risk of cerebrovascular adverse events and death" "A number of pharmacological treatments are recommended to complement non-pharmacological approaches when the person with dementia is severely distressed or there is an immediate risk of harm" 									
Sponsorship/ Conflict of interest	"The National Health and Medical Research Council (NHMRC) Partnership Centre for Dealing with Cognitive and Related Functional Decline in Older People was established in 2013 with funding support from the NHMRC, HammondCare, Alzheimer's Australia, Brightwater Care Group and Helping Hand Aged Care. " "No relevant disclosures for competing interests."									

Table A-18. Clinical Practice Guidelines for Dementia in Australia [33]

AA = Alzheimer's Association; ABC = Antecedent-Behavior-Consequence; AChE-Is = acetylcholinesterase inhibitors; AD = Alzheimer's disease; ADAPTE = ADAPTE Collaboration; KICA = Kimberley Indigenous Cognitive Assessment; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; N/A = not applicable; NHMRC = National Health and Medical Research Council; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
88	2011	International	Patients with dementia (including AD)	Literature review	No	No				
Screening	N/A									
Diagnosis and testing	 AD differential diagnosis excludes Creutzfeldt-Jakob disease, vascular dementia, Lewy body dementia in part due to increased tau and phosphotau, and decreased A β in the CSF Additional tests such as EEG, structural MRI/CT, and PET scans are listed 									
Monitoring	N/A									
Treatment	 For the symptomatic treatment of AD, donepezil, galantamine, memantine, ginkgo biloba extract, rivastigmine show a modest, over a limited time, effect in a part of the patients (Level B). For symptomatic treatment of AD, these pharmaceuticals can be recommended (Grade 3) Memantine alone had inclusive evidence. Concomitant medication study groups differed. Memantine in AD compared with placebo showed superiority (Level D) 									
	 Methodological inadequateness prohibits a systematic recommendation of pharmaceuticals related to specific severity levels (Level F) Methodological limitations of studies in the prevention of so called "MCI" do not allow conclusion on 									
	 preventive effects. Thus, antidementia pharmaceuticals cannot be recommended in MCI. The treatment should start after diagnosis with clearly defined treatment goals (Level C3, Grade 4) 									
	 End of treatment should depend on an individual decision (Level C3, Grade 4) 									
	 Discontinue if there are significant adverse effects or after consensus with patients and relatives/caregivers/legal representatives (Level C3, Grade 4) 									
Sponsorship/	 The preparation of these guidelines has not been financially supported by any commercial organization 									
Conflict of interest	 These guidelines were developed by an international Task force of the World Federation of Societies of Biological Psychiatry (WFSBP) 									
	 "Conflicts of interest were presented, for example: Prof. Dr. Ralf Ihl received grants/research support or was involved as consultant, speaker or in advisory boards or received authors honoraria within the last three years from APK, Austroplant, BDI, Beltz Test, BOD, Caritas Siegen, Double Helix Development, Eisai, Friedrichverlag, GE Healthcare, Hogrefe, IFE, Janssen, KDA, Landesinitiative Demenz Service NRW, LVR Düren, Lundbeck, Medical Tribune, Med. Komm., Novartis, Pfizer, Pfrimmer Nutritia, Pierrel, Schwabe, Thieme, Urban & Vogel, Westermayer. Prof. Dr. Moeller has received grants or is a consultant for and on the speakership bureaus of Astra-Zeneca, Bristol-Myers Squibb, Eisai, Eli Lilly, GlaxoSmithKline, Janssen Cilag, Lundbeck, Merck, Novartis, Organon, Pfizer, Sanofi-Aventis, Schering-Plough, Schwabe, Sepracor, Servier and Wyeth." 									

Table A-19.World Federation of Societies of Biological Psychiatry (WFSBP) Guidelines for the
Biological Treatment of Alzheimer's Disease and Other Dementias [34]

AA = Alzheimer's Association; AD = Alzheimer's disease; CSF = cerebrospinal fluid; CT = computed tomography;

EEG = electroencephalogram; MCI = mild cognitive impairment; MRI = magnetic resonance imaging; N/A = not applicable; NIA = National Institute on Aging; PET = positron emission tomography.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
86	2007	Canada	Patients with severe AD	Literature review (following rules of evidence developed by the Canadian Task Force)	Unlikely	No
Screening	N/A					
Testing	N/A					
Diagnosis	surviv ■ "Asse	val. This will ty ssment should	pically correspond	e in which the patient bed to MMSE < 10 and GD (e.g., MMSE), function,)."	S 6 to 7 (Grade B, Le	vel 2)."
Monitoring			e AD should be ass (Grade C, Level 3	essed at least every 4 mo	onths or if treated with	n pharmacotherapy at
Treatment	functi • "Med sympt	on and provide	e maximum comfor ent includes treatme pressure ulcers) ar	rove the quality of life for rt (Grade B, Level 3)." ent of intercurrent medic neliorating pain improvi	al conditions (e.g., inf	ections, parkinsonian
	 "Patie would Level "Trea 	ents with sever l include mode 1)." tment with Ch nstrated. Treat	e AD can be treated st improvements o EIs and/or memant	d with ChEIs, memanting r slower decline in cogni ine should persist until c discontinued simply bec	tion, function, and be linical benefit can no	havior (Grade A, longer be
	• "The target	management o	l consideration of s	gin with appropriate assest afety of the patient, their	-	
	includ behav	le behavioral n iors. Music an	nanagement for dep d multi-sensory int	be initiated first. Approa pression and caregivers/s ervention (Snoezelen) ar nonstrated (Grade B, Lev	taff education program the useful during treatm	ns for a variety of
	preser	-	epression, psychos	e initiated concurrently v is, or aggression that put		
		•		D should be initiated at th (Grade B, Level 3)."	ne lowest doses, titrate	ed slowly, and
				cations for BPSD after a (Grade A, Level 1)."	period of 3 months of	behavioral stability
	benef	it of all antipsy	-	ed for severe agitation, a eighed against the potent)."		-
			t evidence to recor d patients (Grade (nmend for or against the C, Level 3)."	use of trazodone in th	e management of
	 "Benz 	odiazepines sł	ould be used only	for short periods as prn a	agents (Grade B, Leve	el 1)."

Table A-20. Clinical Practice Guidelines for Severe Alzheimer's Disease [35]

	 "Selective serotonin reuptake inhibitors can be used for the treatment of severe depression (Grade B, Level 3)."
	 "If BPSD fails to improve after appropriate nonpharmacologic and pharmacologic interventions refer to a specialty service (Grade B, Level 3)."
Sponsorship / Conflict of interest	 "Conflicts of interest: Nathan Herrmann has received research support, honoraria, and/or consultant fees from Lundbeck, Janssen Ortho Inc, Pfizer, Novartis, and Eli Lilly. Serge Gauthier has been an investigator and/or consultant for Lundbeck, Pfizer, and Merz."

AA = Alzheimer's Association; AD = Alzheimer's disease; BPSD = behavioral and psychological symptoms of dementia; ChEI = cholinesterase inhibitor; GDS = Global Deterioration Scale; MMSE = Mini-Mental State Examination; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
78	2007	UK	Patients with MCI, dementia (including AD)	Workgroup	Unlikely	No			
Screening	 "Gene 	eral population	screening for deme	ntia should not be un	dertaken."				
Testing	 "Primary healthcare staff should consider referring people who show signs of MCI for assessment by memory assessment services to aid early identification of dementia, because more than 50% of people with MCI later develop dementia." "Memory assessment services that identify people with MCI (including those without memory impairment, which may be absent in the earlier stages of non-Alzheimer's dementias) should offer follow-up to monitor cognitive decline and other signs of possible dementia in order to plan care at an early stage." "Imaging techniques can identify early brain changes, both structural and metabolic, but no single technique if used as a screening test can accurately identify individuals with MCI who will subsequently develop AD or other dementias." "The means of identification of the early changes of dementia syndromes are developing more rapidly than the therapeutic options and so the usefulness of such very early pre-clinical diagnosis currently remains 								
Diagnosis	 uncertain." "Standardized and widely accepted criteria exist for the diagnosis of subtypes of dementia including AD, VaD, DLB and FTD" 								
	 "A standardized cognitive assessment tool is a useful adjunct to cognitive testing." 								
	 "CT scanning can detect most gross intracerebral pathology, but MRI has superior sensitivity and is preferred where available." 								
	 "Neuropsychological assessment can be helpful, especially in early cases, to help determine whether dementia is present or not." 								
	 "Blood-flow SPECT or FDG PET can detect functional changes in AD and be useful in differentiating AD, FTD and VaD." 								
	 "Dopaminergic SPECT or PET can detect nigrostriatal degeneration in vivo and can differentiate D Parkinson's disease from AD and VaD." 								
		l levels of tau and pho rements in diagnosis a	osphorylated tau and and monitoring of AD						
	• "The i	resting EEG sł	nows non-specific ab	normalities in most t	ypes of dementia."				
			be considered approp gnosis that alters ma		ed cases and can cont	ribute in a minority of			
Monitoring	and gl				be reviewed every 6 ws on the patient's co	months by MMSE score ondition at follow-up			

Table A-21.Dementia: the NICE-SCIE Guideline on Supporting People With Dementia and
Their Carers in Health and Social Care [36]

 "People with mild-to-moderate dementia of all types should be given the opportunity to participate in a structured group cognitive stimulation program. This should be commissioned and provided by a range of health and social care staff with appropriate training and supervision and offered irrespective of any drug prescribed for the treatment of cognitive symptoms of dementia." "Pharmacological interventions for the cognitive symptoms of AD: the three AChE-Is donepezil, galantamine and rivastigmine are recommended as options in the management of people with AD of moderate severity only (that is, those with an MMSE score of between 10 and 20 points), and under the conditions; although it is recommended that AChE-Is should be prescribed only to people with AD of moderate severity, healthcare professionals should not rely on the MMSE score in certain circumstances, including in those with an MMSE score greater than 20, who have moderate dementia as judged by significant impairments in functional ability and personal and social function compared with premorbid abilities, etc.; when the decision has been made to prescribe an AChE-I, it is recommended that therapy should be initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance, medical comorbidity, possibility of drug interactions, and dosing profiles; memantine is not recommended as a treatment option for people with moderately severe to severe AD eurently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop; for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies." Pharmacological interventions for non-cognitive symptoms and	Treatment	Non-pharmacological interventions:
 the three AChE-Is donepezil, galantamine and rivastigmine are recommended as options in the management of people with AD of moderate severity only (that is, those with an MMSE score of between 10 and 20 points), and under the conditions; although it is recommended that AChE-Is should be prescribed only to people with AD of moderate severity, healthcare professionals should not rely on the MMSE score in certain circumstances, including in those with an MMSE score greater than 20, who have moderate dementia as judged by significant impairments in functional ability and personal and social function compared with premorbid abilities, etc.; when the decision has been made to prescribe an AChE-I, it is recommended that therapy should be initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance, medical comorbidity, possibility of drug interactions, and dosing profiles; memantine is not recommended as a treatment option for people with moderately severe to severe AD except as part of well-designed clinical studies; people with MCI, AChE-Is should not be prescribed, except as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop; for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies." Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline. Sponsorship / Conflict of Intervent of people with Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE." 		structured group cognitive stimulation program. This should be commissioned and provided by a range of health and social care staff with appropriate training and supervision and offered irrespective of any drug
of people with AD of moderate severity only (that is, those with an MMSE score of between 10 and 20 points), and under the conditions;although it is recommended that AChE-Is should be prescribed only to people with AD of moderate severity, healthcare professionals should not rely on the MMSE score in certain circumstances, including in those with an MMSE score greater than 20, who have moderate dementia as judged by significant impairments in functional ability and personal and social function compared with premorbid abilities, etc.;when the decision has been made to prescribe an AChE-I, it is recommended that therapy should be initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance, medical comorbidity, possibility of drug interactions, and dosing profiles;memantine is not recommended as a treatment option for people with moderately severe to severe AD except as part of well-designed clinical studies;people with mild AD who are currently receiving AChE-Is and people with moderately severe to severe AD currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop;for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies."Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline.Sponsorship / Conflict of Interest• "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excell		"Pharmacological interventions for the cognitive symptoms of AD:
severity, healthcare professionals should not rely on the MMSE score in certain circumstances, including in those with an MMSE score greater than 20, who have moderate dementia as judged by significant impairments in functional ability and personal and social function compared with premorbid abilities, etc.;• when the decision has been made to prescribe an AChE-I, it is recommended that therapy should be initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance, medical comorbidity, possibility of drug interactions, and dosing profiles;• memantine is not recommended as a treatment option for people with moderately severe to severe AD except as part of well-designed clinical studies;• people with mild AD who are currently receiving AChE-Is and people with moderately severe to severe AD currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop;• for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies."Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline.Sponsorship / Conflict of Interest• "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE."		of people with AD of moderate severity only (that is, those with an MMSE score of between 10 and 20
 initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance, medical comorbidity, possibility of drug interactions, and dosing profiles; memantine is not recommended as a treatment option for people with moderately severe to severe AD except as part of well-designed clinical studies; people with mild AD who are currently receiving AChE-Is and people with moderately severe to severe AD currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop; for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies." Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline. Sponsorship / Conflict of Interest 		severity, healthcare professionals should not rely on the MMSE score in certain circumstances, including in those with an MMSE score greater than 20, who have moderate dementia as judged by significant
 except as part of well-designed clinical studies; people with mild AD who are currently receiving AChE-Is and people with moderately severe to severe AD currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop; for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies." Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline. Sponsorship / Conflict of Interest "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE." 		initiated with a drug with the lowest acquisition cost. However, an alternative AChE-I could be prescribed where it is considered appropriate having regard to adverse event profile, expectations around concordance,
 currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on therapy until they, their carers and/or specialist consider it appropriate to stop; for people with MCI, AChE-Is should not be prescribed, except as part of properly constructed clinical studies." Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline. Sponsorship / "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE." 		
studies." Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline. Sponsorship / • "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE."		currently receiving memantine, whether as routine therapy or as part of a clinical trial, may be continued on
Sponsorship / Conflict of Interest• "The Guideline Development Group was convened by the National Collaborating Centre of Metal Health and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE."		
Conflict of Interestand Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for Clinical Excellence (NICE) and SCIE."		Pharmacological interventions for non-cognitive symptoms and behaviors: Presented in the guideline.
 The interests of all the members were presented. 	Conflict of	and Social Care Institute for Excellence (SCIE) and supported by funding from the National Institute for
		 The interests of all the members were presented.

AA = Alzheimer's Association; AChE-I = acetylcholinesterase inhibitor; AD = Alzheimer's disease; CSF = cerebrospinal fluid; CT = computed tomography; DLB = dementia with Lewy bodies; EEG= electroencephalogram; FDG-PET = Fluorodeoxyglucose Positron Emission Tomography; FTD = frontotemporal dementia; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; MRI = magnetic resonance imaging; NIA = National Institute on Aging; NICE = National Institute for Clinical Excellence; SCIE = Social Care Institute for Excellence; SPECT = Single-Photon-Emission Computed Tomography; UK = United Kingdom; VaD = vascular dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
76	2005	Italy	Patients with AD	Literature review (RCT, observational studies)	Unclear	No, published prior to 2011
Screening	 N/A 					
Testing	 N/A 					
Diagnosis	 N/A 					
Monitoring	 N/A 					
	 should should should should should should should should start the contine are notificators can be on ind donep (Pract adverse "Treatm mema severe mema severe mema donep NSAI (Stand Gingk hormod vitami selectificator low do (Stand 	d be considered d be considered d be considered reatment as ear use treatment, and s, in patients we used to contre- lividual physice ezil may be pre- ical option); se events do not each with men- ntine should be exact (Standard Ds (nonsteroid dard); to biloba should one replacement in E can be con- ive serotonin re- pression (Stan- osages of olan- dard);	d for the control of d for the control of d in moderate to se ely as possible (Pra in patients who hav red in the presence /ith AD (Standard) ol cognitive sympto- ian preferences (St eferred to galantan of preclude the use nantine and other e considered for the d); e considered for pa); lal anti-inflammato d not be considered at therapy should n nsidered as an adju euptake inhibitors of dard); zapine, quetiapine,	functional status (St BPSD (Standard gu vere AD (Recommen ctical option); re derived benefit, ev of symptoms indicat ; oms, without differen andard); nine and rivastigmin of AChE inhibitors i pharmacotherapie ; e control of symptor tients with moderate ry drugs) should not d (Practical option); ot be considered in v net to other treatmer (SSRIs), particularly risperidone, or even	ndation); ven in those with MM ting cerebrovascular of ntiation between spec e because of a lower i in clinical practice (St s ns and cognitive impa e to severe AD who ar t be considered for the women with AD (Star its (Recommendation citalopram and sertra	ngth); (SE score < 10 (Practical lisease, or vascular risk ific compounds, and based incidence of adverse event tandard)" airment in moderate to re already receiving e treatment of AD

Table A-22.Guidelines for the Treatment of Alzheimer's Disease From the Italian Association of
Psychogeriatrics [37]

Sponsorship /	• "A committee of experts from the Italian Association of Psychogeriatrics compiled these guidelines"
Conflict of	"This work was made possible by an unconditional grant from Pfizer Italia Srl."
interest	

AA = Alzheimer's Association; AChE = acetylcholinesterase; AD = Alzheimer's disease; BPSD = behavioral and psychological symptoms of dementia; MMSE = Mini-Mental State Examination; NIA = National Institute on Aging; N/A = not applicable; NSAID = nonsteroidal antiinflammatory drug; SSRI = selective serotonin reuptake inhibitor.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
60	2000	Italy	Patents with dementia (including AD)	Scientific evidence emerging from peer-reviewed journals	Likely	No			
Screening			isable to use the ex any public health ac		screening asymptom	atic populations insofar			
Testing	 "Alongside the use of standardized neuropsychological test batteries, the patient's cognitive status should be further explored using tests that investigate particular functional areas (III)." "A lumbar puncture should be performed in the presence of known or suspected meningeal carcinomatosis, central nervous system infection, positive syphilitic serology, suspected central nervous system vasculitis, unusual or rapidly progressive dementia, or immunosuppression (I)." "The cerebrospinal fluid (CSF) levels of substances that may play a pathogenetic role in dementia (e.g., beta-amyloid, tau protein) are of great scientific interest. These should be measured in the context of research protocols which explicitly require that informed consent be obtained from the patient or caregiver (III)." 								
Diagnosis	syndr "It is least a (I)." "Othe tomog	 "The diagnosis should be based on the DSM-IV or ICD-10 criteria that assume the existence of a single syndromic picture (dementia) common to various diseases (III)." "It is reasonable to perform brain computed tomography (CT) or magnetic resonance imaging (MRI) at least at the time of first diagnosis, because this is often indispensable for a correct differential diagnosis (I)." "Other examinations, such as single photon emission computed tomography (SPECT) or positron emission tomography (PET), can provide information on brain function. These are of great interest for research purposes and should be used in the framework of research protocols (III)." 							
	the ca (II)." "In th forms defini "The criteri cases "In ca is ind	se of Alzheime e case of Alzheime that are not clu- tively used for clinical diagno a (almost iden (I)." ses in which fa	er's disease), each p eimer's disease (the early hereditary, the diagnostic purpose sis of probable Alzi tical to those of DS umilial investigation aim of identifying	most frequent of all o most frequent of all o ere are still no biologic s (I)." neimer's disease accor M-IV) is confirmed by ns reveal a dominant au	a complete neurops f the forms of demen al or instrumental m ding to the NINCDS neuropathological o utosomal transmissio	osis (and particularly in ychological evaluation ntia) and all of the other arkers that can be 5-ADRDA and DSM-III R diagnosis in 89%-100% of on, a genetic examination iline 1 and 2 (PS1 and			
	 "Other genetic investigations of factors potentially capable of modulating the clinical characteristics of the disease (e.g., ApoE, IL1α) are of great scientific interest. These should be performed within the context of specific research protocols (III)." "The anatomopathological finding of AD is useful confirmation in the case of clinically diagnosed dementia (I)." 								
Monitoring	■ N/A								
Treatment	 N/A 								

Table A-23.Guidelines for the Diagnosis of Dementia and Alzheimer's Disease. The Dementia
Study Group of the Italian Neurological Society [38]

Sponsorship/	•	These guidelines were prepared by the Dementia Study Group of the Italian Neurological Society (SIN).
Conflict of	•	The work was partially supported by an Educational Grant from Novartis Italia
interest		

AA = Alzheimer's Association; AD = Alzheimer's disease; ApoE = Apolipoprotein E; APP = amyloid precursor protein; CSF = cerebrospinal fluid; CT = computed tomography; DSM-III = *Psychiatry Diagnostic & Statistical Manual of Mental Disorders–Third Edition Revised*; DSM-IV = *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition*; ICD-10 = *International Statistical Classification of Diseases, Tenth Revision*; MCI = mild cognitive impairment; NIA = National Institute on Aging; NINCDS-ADRDA= National Institute of Neurological and Communicative Disorders and Stroke; PET = positron emission tomography; SPECT = single photon emission computed tomography.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
60	2017	US	Patients with AD	Workgroup	Unclear	No		
Screening	 N/A 							
Testing	 N/A 							
Diagnosis	 N/A 							
Monitoring	 N/A 							
Treatment	 "Available evidence remains modest for the efficacy of the cholinesterase inhibitors for mild to severe Alzheimer's disease and of memantine for moderate to severe Alzheimer's disease." "New randomized controlled trials show effects that are, at best, slight or of unclear clinical significance when memantine is added to cholinesterase inhibitors. Evidence for the sustained benefit of either cholinesterase inhibitors or memantine is unclear." "Studies indicate that cholinesterase inhibitors and memantine have no clinically significant effects on disruptive behaviors." "New evidence indicates that antipsychotics provide weak benefits for the treatment of psychosis and agitation in patients with dementia. Adverse effects of antipsychotics reported include sedation, metabolic effects, and cognitive impairment." 							
Sponsorship / Conflict of interest	effort a watche policy.	and are approve s represent the	ed for publication l	by APA's Executiv	ated with the original gue Committee on Practic of the Executive Committee Commi	e Guidelines. Thus,		

Table A-24.Guideline Watch (October 2014): Practice Guideline for the Treatment of Patients
With Alzheimer's Disease and Other Dementias [39]

AA = Alzheimer's Association; APA = American Psychological Association; N/A = not applicable; NIA = National Institute on Aging; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
55	2018	India	People with dementia (including AD), MCI	Literature review	Not discussed	No				
Screening	■ N/A									
Testing	cognit ■ "Shor	 "Brief screening tests can be useful. This can help in eliciting key information and by making brief cognitive assessments" "Shorter tests may confirm a cognitive problem that needs to be evaluated, whereas longer tests contribute more to the diagnosis" 								
Diagnosis	 "Cogr instruct Exam "Simp in rou "Two and th "The of 	nitive assessment ments like Min ination (ACE) ole instruments tine clinical pra commonly use e BEHAVE-A clinicians migh	i-Mental State Exam is a more detailed tex like the Clinical Den actice" d scales for assessm D" t choose any standar	ut of detailed exa ination (MMSE) st battery for asse- nentia Rating Sc ent of BPSD sym d criteria for mal	osis of MCI" amination of higher funct o can be used. Addenbroo essing cognitive functions ale can help in assessing aptoms are the Neuropsyc king clinical diagnosis of	ke's Cognitive s" the severity of dementia chiatric Inventory (NPI)				
	 "Asse interv 	ssment of the a	.e., ICD-10 and DSM activities of daily livi veryday Activities Sc	ng is very impor	tant to formulate the indi (SI])"	vidualized plan of				
Monitoring Treatment	Alzhe	imer's disease"	, –		e used for all the stages o					
	 "There is no clear evidence regarding the benefit of cholinesterase inhibitors for the management of behavioral and psychological symptoms in Alzheimer's dementia" 									
	 "The efficacy of cholinesterase inhibitors is established clearly in the short term randomized controlled trials lasting for 3 to 6 months for the cognitive domains and global functioning" 									
	 "Few studies have indicated continued benefit of cholinesterase inhibitors in the long term (up to 1 year). But there are limitations in the quality of this evidence." 									
	 "The benefit of cholinesterase inhibitors in the long term is suggested through the observation of deterioration of cognitive function and global functioning after the withdrawal of cholinesterase inhibitors" 									
	 "Memantine alone or in combination with ChEIs is useful in moderate to severe Dementia of Alzheimer's disease" 									
	-				n of Donepezil, Rivastign c cholinesterase inhibitor					
			antipsychotics (Rispe and psychotic symp		zole, Quetiapine) can be	considered for severe				
					more effective in the standard been identified for M					
					ve in delaying the conver ACI is not recommended	sion of MCI to dementia.				

 Table A-25.
 Clinical Practice Guidelines for Management of Dementia [17]

Sponsorship /	 Conflict of interest information was not presented.
Conflict of	
interest	

^{AA = Alzheimer's Association; ACE = Addenbrooke's Cognitive Examination; AD = Alzheimer's disease; BEHAVE-AD = Behavioral Pathology in Alzheimer's Disease; BPSD = behavioral and psychological symptoms of dementia; ChEI = cholinesterase inhibitor; DSM-5 = Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition; ICD-10 = International Statistical Classification of Diseases, Tenth Revision; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; N/A = not applicable; NIA = National Institute on Aging; NPI = Neuropsychiatric Inventory.}

Table A-26.Practice Guidelines for the Diagnosis and Treatment of Alzheimer's Disease in a
Managed Care Setting: Part II--Pharmacologic Therapy [40]

Google Scholar citationsª	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines	
48	2000	US	Patients with AD	Evidence- based + expert panel	Likely	Not applicable	
Screening	 N/A 						
Testing	 "A ba 	seline assessme	ent global, cognitive	e, functional, and bel	havioral status should	be undertaken"	
Diagnosis	■ N/A						
Monitoring	 "Patients should be reassessed periodically to determine if the symptoms of AD are improved or stabilized or if the rate of decline has been reduced". "Any of these beneficial responses to donepezil warrant continued therapy". "Failure to improve, stabilize or reduce the rate of decline in a patient adhering to the regimen indicates that donepezil therapy is not efficacious in this patient, and the agent should be discontinued". "Any residual, non-urgent or emerging behavioral disturbances that impair patient function or produce distress should be treated with the appropriate psychotropic medicine". "Maintenance donepezil therapy may be reevaluated when the patient reaches a stage of severe dementia". "If cognitive, functional or behavioral deterioration occurs with discontinuation of donepezil, re-initiation and continued therapy are indicated". 						
Treatment	depre for be "Patie mild- dose 10-m and th "Afte	ssive symptoms whavioral distur- ents who do not to-moderate AI of 5 mg and sho g dose and reas ne rechallenged r the introduction	s or with antipsycho bances" have behavioral pr O (e.g., often define buld be reassessed a sessed. Patients una with 10 mg after for	otic mood stabilizers, oblems are candidate d as a MMSE evalua fter 3 to 4 therapies. ble to consume 10-n our to six weeks".	, or other appropriate es for treatment with o ation score ≥ 10). Don Patients tolerating 5 r	epezil is introduced at a ng should be advanced at irrned to the 5-mg doses	
Sponsorship/ Conflict of interest	 "The unres "Con Dr Action 	Work of the Al tricted educatio flicts of interest Fillit was Corp tha U.S. Health	zheimer's Disease I nal grant from Pfize were presented: porate Medical Dire	er Inc, and Eisai Inc" ctor for Medicare at tial development of t	NYLCare Health Plan	funded, in part, with an ns, now a subsidiary of	

AA = Alzheimer's Association; AD = Alzheimer's disease; MMSE = Mini-Mental State Examination; N/A = not applicable; NIA = National Institute on Aging; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
44	2018	Australia and Canada	Patients with AD	Expert panel + SLR + grading evidence	No	No
Screening	 N/A 					
Testing	 N/A 					
Diagnosis	■ N/A					
Monitoring	■ N/A					
deprescribing	 "Disc popul "The outco and h "It is carer/ "ChE popul "Then to ass 	ontinuation of ChI ations of users." limited data on per mes may not be all arms of both prese important to consid family when deter -Is and memantine ations and settings re are numerous cli ess for ongoing be	E-Is and/or memain rson-important out tered by discontin ribing and depress der the values, pro- mining if trial dep have been found , based on the dat nical consideration nefit, how to cond	tion with minimal clinicall ntine may lead to a worsen tcomes, such as quality of uation. However, there is a cribing in the individual." eferences and experiences of prescribing is appropriate." to be cost-effective in trea a from short-term studies." ons when deprescribing Ch duct withdrawal and monit	ing of cognitive fur life and function, su considerable uncerta of the person with c ting approved indic E-Is and/or meman oring (plus actions	nction in certain aggests that these ainty in the benefits lementia and/or the ations in some tine, including how
Sponsorship / Conflict of interest	■ "The Deme	development, publ entia Research Dev	ication and disser	harmacological management nination of this guideline v ship awarded to Dr Emily l contributed their time to d	vere funded through Reeve (APP110577	7). Guideline

Table A-27.Evidence-based Clinical Practice Guideline for Deprescribing CholinesteraseInhibitors and Memantine in People with Dementia [7]

AA = Alzheimer's Association; ChE-I = cholinesterase inhibitor; N/A = not applicable; NHMRC-ARC = National Health and Medical Research Council - Australian Research Council; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
43	2019	Australia and Canada	Patients with AD	Expert panel + SLR + grading evidence	Unclear	No
Screening	N/A					
Testing	N/A					
Diagnosis	N/A					
Monitoring	(e	.g., every 4 weeks	nEI or memantine show) and re-initiation of the drawal (Practice Point	ne medication if the		
Treatment	• "F di - - - - - - - - - - - - - - - - - -	e recommend trial cognition and/or individual) no benefit (impro- treatment; or the individual has for individuals tak scontinuation if: (cognition and/or individual) no benefit (impro- treatment. the individual has the dose of the Ch- epping down throu- discontinuation (ther situations in w bint): a decision by a pa- a person with der non-adherence th drug-drug or dru	discontinuation if: (S function has significar ovement, stabilization of s severe or end-stage d ing memantine for AI Strength: Strong, LoE function has significar ovement, stabilization of s severe/end-stage den EIs or memantine sho ugh available dose form	trength: strong; LoE ntly worsened over t or decreased rate of ementia" D, PDD or LBD for every Low) ntly worsened over t or decreased rate of nentia" uld be tapered prior nulations) every 4 w ng of ChEIs or mem nd/or their family/ca pility to take the me that make treatmen	: Low) he past 6 months (or l decline) was seen at a > 12 months, we reco he past 6 months (or l decline) was seen at a to discontinuation by veeks to the lowest av antine can be conside arer to discontinue the dication	any time during mmend trial less, as per the any time during r halving the dose (or b railable dose, followed pred include (Practice
Sponsorship Conflict of interest	A D in	ustralian National evelopment Fellov	oment and, as such, the	esearch Council (N y Reeve (APP1105	HMRC) - ARC Deme 777). The funding boo	-
	• Tł	nere was a descrip	tion of author's engag	ement, but no decla	ration of conflict was	made.

Table A-28.Deprescribing Cholinesterase Inhibitors and Memantine in Dementia: Guideline
Summary [6]

AA = Alzheimer's Association; AD = Alzheimer's disease; ChEIs = cholinesterase inhibitors; LBD = dementia with Lewy Body; LoE = level of evidence; N/A = not applicable; NIA = National Institute on Aging; PDD = Parkinson's disease dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
37	2016	Australia	Patients with dementia (including AD), MCI	Expert panel + SLR + grading evidence	Unclear	No
Screening and testing	populatic particular "A basic biochemi vitamin I "Offer re "Occupat	on screening (CE rly in those aged dementia screen istry tests (e.g., e 312 and folate le ferral to memory tional therapy in tence, and enviro	R). Nevertheless, GI ≥75 years (CBR), ar should be performed lectrolytes, calcium, vels" / assessment speciali terventions, including	Ps should look out f nd investigate symp d at the time of pres glucose, renal and sts or services (EB) g assistive technolo		tive decline, rst raised" utine hematology, I function tests, serum tions to improve
Diagnosis	 N/A 					
Monitoring	■ "Symj	ptoms should be	-		cludes considering dia ls so that the behavior	scontinuation (PP)." s and effectiveness of
Treatment	"There is those wit "Recent of Parkinson "The of such a "ChEl "Non- interest	evidence that C h mild to moder evidence has also n's disease demo combination of a ls distress and ag (s are not recomm pharmacologica sting and meanin	hEIs can improve co ately severe demention o shown benefits of C entia, vascular dement o ChEI plus memantin titation (EBR, low)" mended for MCI (EB	a (EBR, low)." ChEIs in people who ntia and severe AD ne has been shown BR, low)" s engaging the perso emented first (PP)"	o have dementia with I (EBRs, low)" to improve cognition a on with dementia in ac	and reduce symptoms
Sponsorship/ Conflict of interest	 This v Function 	vork was suppor ional Decline in	ted by the NHMRC I	Partnership Centre	on Dealing with Cogn	itive and Related

Table A-29.Clinical Practice Guidelines and Principles of Care for People With Dementia in
Australia [41]

AA = Alzheimer's Association; AD = Alzheimer's disease; CBR = consensus-based recommendations; ChEI = cholinesterase inhibitor; EBR = evidence-based recommendations; GP = general practitioner; MCI = mild cognitive impairment; NHMRC = National Health and Medical Research Council; N/A = not applicable; NIA = National Institute on Aging; PP = practice point.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
24	2015	Italy	Patients with MCI due to AD, patients with possible, or probable AD	Literature search from peer- reviewed	Unclear	Yes			
Screening	• N/A								
Testing and diagnosis	" Before necessary	-	he exam and performin	g it, the presence of	all three following co	onditions is			
	-	osychological b	e a cognitive impairment battery. Normative referen	• •	•				
	by an o		nitive impairment remain ntia and related Cognitiv						
	 The expert believes that knowing whether cerebral amyloidosis is present or not could increase diagnostic accuracy. This information may substantially modify the patient clinical/therapeutic management, consisting not only in pharmacological approaches, but also in a globally considered planning of non- pharmacological supports" 								
	"Amyloid PET is recommended in the following cases:								
	 Subjects affected by a persistent or progressive (for at least 6 months) Mild Cognitive Impairment (MCI), defined according to the NIA-AA criteria, when the expert's diagnosis based on morphological and/or functional neuroimaging is still uncertain. 								
	 MCI subjects (a) when the clinical onset is either atypical or uncertain without a clear diagnosis, (b) when the etiology may be mixed due to a concomitant cerebrovascular disease or (c) when there are potentially misleading clinical conditions, i.e., pharmacological effects or not properly controlled systemic diseases (e.g., diabetes). 								
	 Patients with a diagnosis of possible AD, defined according to the NIA-AA criteria when the final diagnosis still uncertain after the diagnostic procedures involving morphological and possibly functional neuroimaging. 								
	diagno	-	ve decline or progressive ear at the end of the diag			-			
	syndro	-	òcal syndromes (e.g., pro expert's diagnosis is still D pathology."		-				
	"Amyloi	d PET is not r	ecommended in the foll	owing conditions:					
		nyloid angiopat	criteria for probable AD thy (given that positivity		-	-			
	■ For the	e definition of t	tive impairment						
	the e4	alleles of the a	dividuals, even in the pre polipoprotein E						
	 For patients reporting deficits not confirmed by the objective neuropsychological evaluation. 								
	 As an AD. 	alternative to g	enetic testing in suspecte	ed carriers of dominar	nt autosomal gene mut	tations causing			

Table A-30.Recommendations from the Italian Interdisciplinary Working Group (AIMN, AIP,
SINDEM) for the Utilization of Amyloid Imaging in Clinical Practice [42]

	 For non-medical use (legal and insurance purposes, screening for employment)."
Monitoring	 N/A
Treatment	 N/A
Sponsorship/ Conflict of interest	 "The guideline was developed by experts on behalf of three scientific associations: the Italian Neurological Society for the Study of Dementia (SINDEM), the Italian Association of Psychogeriatrics (AIP) and the Italian Association of Nuclear Medicine (AIMN)"
	 "Conflict of interest:
	 Alessandro Padovani has received honoraria for speaking at Symposia from General Electrics-Health, Lundbeck, and Novartis
	 Flavio Mariano Nobili has received honoraria for speaking at Symposia from Eli Lilly & Co and Piramall.
	 Ugo Paolo Guerra, Daniela Perani, Sandro Sorbi, Alberto Pupi and Marco Trabucchi declared that they have no conflict of interest."

AA = Alzheimer's Association; AD = Alzheimer's disease; AIMN = Italian Association of Nuclear Medicine; AIP = Italian Association of Psychogeriatrics; DLB = dementia with Lewy bodies; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging; NIA-AA = National Institute on Aging – Alzheimer's Association; PDD = Parkinson's disease dementia; PET= positron emission tomography; SINDEM = Italian Neurological Society for the Study of Dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA Guidelines
20	2004	Italy	Patients with dementia (including AD), MCI relating to AD	Workgroup + scientific evidence from peer-reviewed + expert consensus	Likely	No
Screening	How (I)" • "The not c • "It sl conf • "In t diagi • "One anot	ever, they are n e use of the cum offer any public nould involve (irmation and th he case of all o nostic picture (e of the most w	not sufficiently specific, a rently available screening health advantages (I)" GPs in the first screening de differential diagnosis of f the forms or situations III)" idely used screening inst validated is the Milan Ov	cognitive or functional de and they would lead to a l g instruments is therefore phase, and neurologists i of the various forms of de attributable to MCI, a neu ruments is Folstein's Mir verall Dementia Assessme	nigh number of false not recommended in n the second and thir mentia) (III)." urologist should draw ni Mental State Exam	positive results sofar as it would d (diagnostic y up a complete ination, and
Testing	rise t diabd "Cor know "The of ps "It is "The nece "We activ "Alth neur "Spe that t exter conc	to encephalopa etes and arteria additions that may vn to cause, or e existence of the cychiatric disea a also essential e physical exam- ssarily include recommend the ities of everyda hough it is not opsychological crific scales show and show the mem- entrates on the	thies, such as hyper- or h l hypertension (I)" ay cause folic acid or vita contribute to the manifes ne abuse of alcohol other ses, previous cranial trau to investigate the present ination should be perfor a complete neurological e use of the Instrumental ay life (I)" strictly necessary for the assessment at the time of puld be used, such as the ole to measure the frequen- tias; the Behavioral Path specific psychological specific psychological specific psychological specific psychological specific psychological specific path of the present of the present of the present of the present specific psychological specific psychological psycho	e presence of severe non a ypothyroidism; hepatic, r amin B12 deficiency shou tation of reduced cognitiv substances, and an evalu mas and, particularly, oth ce of dementia in other m med on the basis of gener examination (I)." Activities of Daily Livin diagnosis of dementia, ev f the first diagnosis, parti Neuropsychiatric Invento ncy and severity of the dia ological Rating Scale for ymptoms of AD; or the B both behavioral and psycl	enal or respiratory in Id also be considered ve capacities (I)" ation should be made embers of the same f al medical principles g (AIDL) scale, which very patient should un cularly in the case of ory of which there is a sorders common to A Alzheimer Disease, ehavioral Scale of th	a sufficiency; a because they are e of the presence ases (I)." a mily (I)" a and must ch investigates 16 andergo a complete CAD (II)." an Italian version AD and, to a lesser which e Consortium to
Diagnosis	 "The synd "In t lack "It h ADF 	e diagnosis mus romic picture (he case of Alzh of biological a as been found t	st be based on the DSM-I dementia) shared by diff neimer's disease, and the nd/or instrumental marke that the clinical diagnosis	V or ICD-10 criteria, wh	ich foresee the existe learly hereditary, the for diagnostic purpo ng to the criteria of th	nce of a single ere is currently a oses (I)" ne NINCDS-

Table A-31.Italian Neurological Society Guidelines for the Diagnosis of Dementia: Revision 1[43]

	• "The neuropathological markers of AD can also be encountered in non-demented elderly subjects; anatomopathological findings are useful for confirming AD in the presence of clinically diagnosed dementia (I)"
	 "Anatomic cerebral neuroimaging examinations (CT, MRI) are mandatory, at least at the time of first diagnosis (if only to ensure a correct differential diagnosis and assess the possible vascular component), and whenever there are particularly important variations in the patient's clinical course. Volumetric studies of the hippocampus are currently restricted to research protocols, as are MR-spectroscopy studies (I)." "Expectional correct are particularly important variations cuch as SPECT and PET, which provide information
	 "Functional cerebral neuroimaging examinations such as SPECT and PET, which provide information concerning the status of cerebral function and metabolism, are indicated in the case of dementias with an atypical presentation or evolution (III)."
	 "Cerebral neuroimaging examinations should be considered on the basis of the clinical characteristics at presentation (III)."
Monitoring	 N/A
Treatment	 N/A
Sponsorship / Conflict of interest	 This paper was partially supported by an Educational Grant from Novartis Italy

AA = Alzheimer's Association; AD = Alzheimer's disease; AIDL = Instrumental Activities of Daily Living; CT = computerized tomography; DSM III R = *Psychiatry Diagnostic & Statistical Manual of Mental Disorders, Third Edition Revised*; DSM-IV = *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition*; GP = general practitioner; ICD-10 = *International Statistical Classification of Diseases, Tenth Revision*; MCI = mild cognitive impairment; MR = magnetic resonance; MRI = magnetic resonance imaging; N/A = not applicable; NIA = National Institute on Aging; NINCDS-ADRDA = National Institute of Neurological and Communicative Disorders and Stroke; PET = Positron emission tomography; SPECT = single-photon emission computerized tomography.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
19	2015	UK	People who are at risk of dementia, Diagnosed with dementia	Reviews, expert reports and economic modelling reports + recommendations developed by Public Health Advisory Committee	Unlikely	Not applicable
Screening	 N/A 					
Testing	 N/A 					
Diagnosis	■ N/A					
Monitoring	■ N/A					
Treatment	 N/A 					
Risk manageme	 Integra Raisin Product Prever Improvid Reduct Suppote Delive Provid Provid Provid Provid Provid Provid Provid Provid 	g awareness of cing information ating tobacco un ving the enviro ing alcohol-relevent rting people to rting services the ling advice on ling accessible ling physical a le training ling support in	risk reduction pre f risk of dementia, on on reducing the use onment to promote lated risk o eat healthily o promote behavio reducing the risks	disability and frailty risks of dementia, disability a physical activity or change of dementia, disability and fr	·	oriate opportunity
Sponsorship / Conflict of interest			eveloped by NICE			

Table A-32.Dementia, Disability and Frailty in Later Life – Mid-Life Approaches to Delay or
Prevent Onset [44]

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging; NICE = National Institute for Health and Care Excellence; UK = United Kingdom.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
15	2016	US	Patients with AD, patients with MCI relating to AD	ACR-ASNR workgroup	No	No
Screening		amyloid-PET i factors for dev		n validated for screen	ing asymptomatic subjec	ts with genetic or
Testing	 N/A 					
Diagnosis	and ca "Altho patien meet t "Patho "It is a degen of earl "The u Aß-an whom "Detee declin as FTI	In thereby distin- pugh the use of ts who may ulti- the criteria for M- ological deposit anticipated that erative dementi- ly cognitive con- use of amyloid in- nyloid deposition. AD is a possib- ction of Alzheir e who demonstra D (e.g., early ag	guish AD from othe FDG-PET has not b mately be at risk of ICI" ions of fibrillar Aβ- as, but it may not ne maging is recomme in patients with pr ility" ner pathology in cog rate features atypica	er degenerative proce een determined to be developing dementia amyloid are requisite g may be more specif ecessarily provide evi inted patients" nded to determine pr rogressive cognitive of gnitively impaired ad l of AD and suggesti- nt behavioral dysregu	ional patterns of cerebral sses such as FTD." useful for screening of a , the modality can be use for the pathological diag fic than FDG-PET in diff dence of a specific neuro esence (or absence) of pa lecline or dementia of un ults: Subjects with progra	symptomatic ful in patients who nosis of AD" erentiating among degenerative cause thological fibrillar certain etiology in essive cognitive terative process such
Monitoring			t be used to establis ogression or improv		O or monitor the response	to therapy for AD
Treatment	 N/A 					
Sponsorship / Conflict of	Ameri	can Society for	Neuroradiology (A	SNR)	College of Radiology (A	ACR) and the
interest	 Confli 	cts of interest a	nd sources of funding	ng: none declared.		

Table A-33. ACR-ASNR Practice Parameter for Brain PET/CT Imaging Dementia [45]

AA = Alzheimer's Association; ACR = American College of Rheumatology; AD = Alzheimer's disease; ASNR = American Society for Neuroradiology; ACR = American College of Rheumatology; FDG-PET = fluorodeoxyglucose (FDG)-positron emission tomography; FTD = frontotemporal disorders; MCI = mild cognitive impairment; NIA = National Institute on Aging; PET = positron emission tomography; US = United States.

Table A-34.EANM Procedure Guidelines for Brain PET Imaging Using [18F]FDG, Version 3[46]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
13	2022	International	Patients with MCI, with AD	EANM Neuro- Imaging Committee workgroup	Unclear	No			
Screening	 N/A 								
Testing	 N/A 								
Diagnosis	with F (ATN • "[18F	hippocampal volum) classification scho] FDG-PET is an in	e measured with Ml eme" idependent biomark	RI (N) — in the amy er to predict AD cor	version in patients w	nd neurodegeneration ith mild cognitive			
	-	rment (MCI) along status."	with amyloid-β and	tau, independently	of hippocampal volu	me and of amyloid			
	 "The use of [18F] FDG-PET is complementary to other biomarkers, such as amyloid PET, CSF Aβ42, CSF Aβ42/Aβ40 ratio, CSF phosphorylated tau, and MRI" 								
	 "[18F] FDG-PET is recommended to support early diagnosis of AD in MCI" 								
	and D incon-	 "FDG-PET is also recommended to support the differential diagnosis between (i) AD and FTLD, (ii) AD and DLB, (iii) FTLD and DLB; (iv) AD and vascular dementia when clinical and MRI data are inconclusive" "[18F] FDG-PET can also be used to help distinguish between cognitive impairment of degenerative 							
	diseas		rative origin, such a		ognitive impairment of injury (in correlation				
Monitoring ^b	 "Continuous supervision of patients during the whole scanning procedure is required. This is particularly important for patients with cognitive impairment." 								
	no con	 "In patients with limited ability to cooperate (e.g., due to their cognitive/behavioral disorders) and in whom no contraindications against medical sedation exist, it may be useful to apply conscious sedation (e.g., by a short-acting benzodiazepine such as i.v. midazolam)." 							
	quant	 "Sedation should be used with caution and rather be avoided if dynamic acquisitions are performed for quantification of rCMRglc, because of the effects of the sedative on glucose metabolism and thus also on brain uptake of [18F] FDG. The dose of sedation should be reduced in elderly patients" 							
			• •	should be performed should be foreseen"	l to prevent cardiopul	monary depression,			
Treatment	 N/A 								
Sponsorship/	 Confl 	ict of interest was re	eported, for exampl	e:					
Conflict of interest	and has con	d Janssen Pharmace s received consultar	euticals. He is a train at and speaker honor	ner for Piramal and C raria from GE Healt	pharmaceuticals, CTI GE. He receives no pe hcare and CIS Bio In s. HB has received sp	ersonal honoraria.EG ternational, and			

AA = Alzheimer's Association; AD = Alzheimer's disease; CSF = cerebrospinal fluid; DLB = dementia with Lewy bodies; EANM = European Association of Nuclear Medicine; FTLD = frontotemporal lobar degeneration; <u>i.v. = intravenous;</u> MCI = mild cognitive impairment; rCMRglc= regional metabolic rate of glucose consumption; [18F]FDG-PET = 2-[18F] fluoro-2-deoxy-D-glucose - positron emission tomography; MCI = mild cognitive impairment; MRI = magnetic resonance imaging; N/A = not applicable; NIA = National Institute on Aging.

^a Google Scholar citation count recorded as of July 11, 2022.

^b These are general monitoring recommendations and are not AD/MCI specific.

Table A-35.Periodic Health Examination, 1991 Update: 1. Screening for Cognitive Impairment
in the Elderly. Canadian Task Force on the Periodic Health Examination [47]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
5	1991	Canada	People over 65 years	Scientific evidence- based+ developed by Canadian Task Force	Not discussed	No
Screening			to include routine s people over 65 yea	screening for cognitive impa rs of age (level C)"	irment in or exclu	de it from periodic
Testing	■ N/A					
Diagnosis	■ N/A					
Monitoring	■ N/A					
Treatment	■ N/A					
Sponsorship/ Conflict of interest			force is supported by formation was not p	y the Department of Nationa resented	l Health and Welfa	are

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
4	2016	Luxembourg	Suspected MCI	Workgroup	Not discussed	Yes
Screening	 N/A 					
Testing and Diagnosis	 by by by source in car "The biomacogni "The control of the signs "The signs "The below Maconidation Maconidation Wilf or 	using appropriate, interpreting the tes- cial factors, comorb providing clinically re." neuropsychological arkers) prescribed b tive disorders." following core diag oncern of cognitive of pairment in at least erference with or in ficits are not better taskforce recomment e used to trigger fur taskforce considers of neurocognitive of taskforce recomment oCA < 19 usually g gnitive assessments entification of neuro- ing (e.g., ADLs). In toCA \geq 19 an MCI a uropsychological as d the potential influ-	idities, professional sound and coherent assessment is comp y medical doctors ar mostic criteria are as decline emanating fr one cognitive doma dependent in activit explained by other r nds the Montreal Co ther, more detailed a the focus of the neu lisorders (i.e., MCI); nds a geriatric/demen oes along with major is in this case challe psychiatric deficience addition, special att ssessment is strongly	andardized testin xt of all other pot background, edu- recommendation dementary to the dis supportive to sessed during ner- om the patient ar- in (moderate or s- ies of daily living mental health issu- gnitive Assessments." ropsychological of and thus, to info- ntia assessment for r cognitive drawb enged. The neurop- cies along with the tention should be y recommended. termining the cha- cal factors, such a z <-2, the geriation	entially intervening fa cational attainment lev as for further diagnost other exams (e.g., ima to the medical diagnos: aropsychological eval ad/or a knowledgeable evere) g tes" ent scale (MoCA) as a evaluation to be the de rm about the degree o or patients with MoC/ packs; the necessity of psychologist's role sh he global repercussion given to potential fan This more thorough a uracteristics of the pero as depression." ric/dementia assessme	ic and/or therapeutic aging, blood tests, is of neurodegenerative uations: other first gatekeeper that etection of very early f degradation" A scores of 18 and detailed and thorough ould be focused on the s on activities of daily nily burdens.
Monitoring			ances (i.e., test result retest should be offe		norms and correspond later"	to none or minor
Treatment	 N/A 					
Sponsorship Conflict of interest	Socie	ty of Psychology (S	-		ropsychologie Démen	ce of the Luxembourg

Table A-36.Recommendations for the Neuropsychological Assessment Supporting the Diagnosis
of Dementia in the Luxembourgish Context (NP-DiaDem) [48]

AA = Alzheimer's Association; ADL = activity of daily living; MCI = mild cognitive impairment; MoCA = Montreal Cognitive Assessment scale; NIA = National Institute on Aging; SLP = Luxembourg Society of Psychology.

z < -2 = z score lower than -2 are indicative of major neurocognitive disorders (American Psychiatric Association, 2013)

Google Scholar citationsª	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
4	2008	Australia	Patients with dementia (including AD)	Review and synthesis existing guidelines + multidisciplinary panel + rating evidence following NHMRC	No	No
Screening	■ N/A					
Testing	 N/A 					
	GP - As Ela - As - Un of - Ide	COG, GDS, C sessment of in derly (IQCOD) sessing and pla derstanding th dementia and i entifying service	DR, and KICA-Co formant's history u E) anning treatment fo e knowledge of the ts implications" ees required to mee	r any co-morbidities person with dementia ar t the needs of the person	ionnaire on Cognitiv Id their carer with re with dementia and th	re Decline in the spect to the diagnosis neir carer
Monitoring	- As • N/A	sessing the un	terstanding of adva	nce care directives of the	e person with demen	ha and their carer
Treatment		nd treat approp	oriately			
	 Pharm Th mc Mc Co Co Do Nonpi Speci: In adv 	nacological fol e three acetylc onotherapies ar emantine is use mbination then o not stop ACh harmacologica fic intervention vanced phase p	lowing the RACGF holinesterase (ACh e recommended as ed for moderate to s rapy is recommende E inhibitors in peop l interventions inclu- ns are presented to rovide the caregive	ed option ble with Alzheimer's dise ude music, behavioral ma support the caregiver rs appropriate support, ir	galantamine and riva ld to moderate AD ase because of disea anagement, and remi	se severity alone nisce therapy, etc."
Sponsorship / Conflict of interest	 These project 	Guidelines an et between Que project was fur	d Pathways have b eensland University	recommendations are pre een prepared from inform of Technology and Que n the J.O. and J.R. Wicki	nation based on a col ensland Health	

Table A-37.Clinical Practice Guidelines and Care Pathways for People with Dementia Living in
the Community [49]

AA = Alzheimer's Association; AChE = acetylcholinesterase; AD = Alzheimer's disease; CDR = Clinical Dementia Rating; GDS = Global Dementia Scale; GPCOG = General Practitioner Assessment of Cognition; IQCODE = Informant Questionnaire on Cognitive Decline in the Elderly; KICA-Cog = Kimberley Indigenous Cognitive Assessment tool; MMSE = Mini-Mental Status Examination; NHMRC = National Health and Medical Research Council; NIA = National Institute on Aging; NICE = National Institute for Health and Care Excellence; RACGP = Royal Australian College of General Practitioners.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines	
None	2021	Taiwan	Patients with MCI, patients with AD	Literature review	Unlikely	No	
Screening	 N/A 						
Testing	 N/A 						
Diagnosis	■ N/A						
Monitoring	■ N/A						
Treatment	Pharma	cological treatn	nent				
	 more side effects." "The oral administration of 6-12 mg/day of rivastigmine or the use of a 9.5-cm rivastigmine patch for 24 h can improve cognitive function, daily living, and overall assessment in patients with mild and moderate AD. In addition, the long-term use (26 weeks) of low dose oral capsules (1-4 mg) is beneficial. Patches have the same effect as oral capsules but result in fewer adverse drug reactions. High-dose patches can be used in patients with severe AD, with the same risk of side effects as low-doses patches." "Continuous use of 16-24 mg of galantamine for more than 6 months can significantly improve the cognitive and daily function of patients with mild and moderate AD. The safety of galantamine is similar to that of other ChEIs." "Patients with MCI using galantamine should be aware of the increased mortality risk." "No valid evidence supporting the use of rivastigmine in adults with MCI exists" "Memantine can improve overall performance, cognitive function, daily function, and behavior in patients with moderate to severe AD. In patients with mild AD, treatment with memantine for 6-7 months is not effective." 						
	treatn • "The in the • "The devel • Princ treatin	nent." effectiveness of market." inhibition of Aβ opment for AD, iples and clinical	monoclonal antibodi 42 production and th and combination the considerations that resented in the guide	ies remains to be c e condensation of rapy remains a pos should be followed		for the future."	
	 "Rece "For provide the second sec	ent studies have of people with MCl ion than stretchir patients with mil ementation can i ega-3 fatty acids	demonstrated that ex I, aerobic exercise an ng and balance trainin d-to-moderate AD, e mprove global cogni	nd resistance trainin ng." excessive vitamin l ition. Vitamin C ar	ng were more effective B intake is not benefici	for overall cognition."	

Table A-38. Taiwan Dementia Treatment Guideline [16]

	 "Dietary recommendations for preventing or reducing dementia are as follows: high, but not moderate, adherence to the Mediterranean diet (MeDi) can reduce the risks of cognitive impairment and dementia in healthy individuals and can delay the progression of AD, and MeDi combined with antihypertensive diet involving eating more foods that are beneficial for the brain and eating less unhealthy foods was significantly positively correlated with the delay of cognitive decline and could reduce the risk of AD." "(I)n patients with mild to moderate AD dementia, acupuncture for 12 weeks three times per week could improve the AD Assessment Scale-Cognitive Subscale."
Sponsorship/ Conflict of interest	This guideline was developed by a working group established by the Taiwan Dementia Society.This work was supported partly by grants from Ministry of Science and Technology.Conflict of interest was not reported.

AA = Alzheimer's Association; AD = Alzheimer's disease; BPSD = behavioral and psychological symptoms of dementia; ChEIs = cholinesterase inhibitors; MCI = mild cognitive impairment; MeDi = Mediterranean diet; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
None	2021	International	Patients with AD, at risk of AD	Literature review + experts' experience	No	No			
Testing and Screening		•			e taken as early as pos beople over 65 years o	-			
Diagnosis	N/A								
Monitoring	N/A								
Treatment	should should • "Synd – Sy	d be placed on com d be adopted in the drome treatment ndrome of marrow	pination of both TC late stage."	M and western me	bosen for the early stand dicine in the middle st Evidence level: II; Rec	tage, and intensive car			
	 C). Spleen-kidney Yang deficiency syndrome: Bupi Yishen Decoction in Ancient and Modern Classic Recipes (Evidence level: III; Recommendation level: C). 								
	 Liver-kidney Yin deficiency syndrome: Zuogui Decoction in Jing-yue's Complete Works (Evidence level: III; Recommendation level: D). Syndrome of Yin deficiency and effulgent fire: Huanglian Jiedu Decoction in Arcane Essentials from the Imperial Library and Tianwang Buxin Pills in Proofread Effective Prescriptions for Women's Diseases (Evidence level: II; Recommendation level: C)." 								
	 Se Sa: Im Preve Nursi "Prove be "B fin "B no 	upuncture prescript ven needles on the r njiao acupuncture (l planting catgut in a ntion (recommendat ng (recommendatio sychotherapy: For t paid to emotional a ehavior therapy: Ap ger exercises, tongu efore going to bed, r drink refreshing di	neck (Evidence leve Evidence level: II; F cupoints (Evidence tion level: D) n level: D) hose AD patients in djustment to keep a opropriate participat te exercises, and her to reduce sleep disc rinks, and drugs car	I: III; Recommend Recommendation I level: II; Recomm the early stage wh good mood and to ion in activities an ad massage is reco order, AD patients help when necess	lation level: D). evel: C). endation level: C)." no still have conscious o avoid emotional inju- id exercises, such as w mmended to delay the should neither watch s	ry." ralking, Taijiquan, process of dementia. stimulating programs,			
	rec – Nu	commended." ursing of sleep disor	der, medication	inder the guidance	of professional rehab	ilitation personnel is			
Sponsorship/		herapy (recommend as no financial supp							
Conflict of interest		ere no conflicts of in							

Table A-39. International Clinical Practice Guideline of Chinese Medicine Alzheimer [50]

This guideline is jointly issued by World Federation of Chinese Medicine Societies and the China Association of Chinese Medicine

AA = Alzheimer's Association; AD = Alzheimer's disease; NIA = National Institute on Aging; TCM = traditional Chinese medicine. ^a Google Scholar citation count recorded as of July 12, 2022.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines			
None	2022	Korea	Patients with dementia (including AD), with MCI due to AD, subjective cognitive decline	SLR-based and meta-analysis methods	No	No			
Screening		e	in patients with neuroco function. (Level High, g	e e	recommended for sci	ceening dementia and			
Testing	patient	 "CSF Aβ, total tau, and phosphorylated tau tests can increase the accuracy of the diagnosis of AD in patients with MCI or dementia. These tests can be considered for differential diagnosis of AD. (Level High, grade Weak)" 							
	progno	 "APOE genotyping can be considered as a diagnostic tool since it can be helpful in the diagnosis and prognostic evaluation of dementia due to AD in patients with MCI or dementia. (Level Moderate, grade Weak)" 							
	it can i								
		 "Results of amyloid PET scans in patients with MCI or dementia can increase the diagnosis accuracy of AD. This test can be considered for the diagnosis of AD. (Level High, grade Weak)" 							
Diagnosis	disting	 "Performing CDR in patients with neurocognitive disorders is useful in diagnosing dementia by distinguishing it from cognitively normal and MCI. It is recommended to perform CDR for dementia diagnosis. (Level Moderate, grade Strong)" 							
		 "In the process of diagnosing dementia, performing MMSE may be considered to determine whether overall cognitive function of patients has reached the level of dementia. (Level High, grade Weak)" 							
		 "The neurological examination is recommended for the differential diagnosis of dementia in patients with MCI or dementia. (Level Moderate, grade Strong)" 							
Monitoring	compa	 "The elderly with SCD have a higher risk of progression to dementia (or AD dementia) in the future compared to those without SCD. Therefore, it is recommended to evaluate their clinical progress through periodic follow-ups every 1 or 2 years. (Level Moderate, grade Strong)" 							
Treatment	 N/A 								
Sponsorship/ Conflict of interest	change	s related to the	mittee for Guideline De e diagnosis and evaluati financial conflicts of in	on of dementia in th		ciation updated recent			

Table A-40.Clinical Practice Guideline for Dementia (Diagnosis and Evaluation): 2021 RevisedEdition [9]

AA = Alzheimer's Association; Aβ = amyloid-beta; AD = Alzheimer's disease; APOE = apolipoprotein E; CDR = Clinical Dementia Rating; CSF = cerebrospinal fluid; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; MRI = magnetic resonance imaging; MTL = medial temporal lobe; NIA = National Institute on Aging; PET = positron emission tomography; SCD = subjective cognitive decline.

Table A-41.Practice Guidelines for the Diagnosis and Treatment of Alzheimer's Disease in a
Managed Care Setting: Part I -- Early Detection and Diagnosis [13]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
None	1999	US	Patients with dementia (including AD)	Evidence-based approach (previous and existing guidelines), managed care experience, and experts' opinions	Likely	No				
Screening	of qu • "P co de	memory impa estions sugge latients with d gnitive declin mentia syndro	airment, patients who sted by the Agency is ementia are particula e after successful tre ome"	mong MCOs and might include ose caregivers have observed n for Health Care Policy and Res arly prone to delirium, and som eatment of a delirious episode,	nemory impairment, o earch guidelines" ne patients will contin these patients should l	or the screening ue to exhibit be evaluated for a				
	ass • "T inl de sy dis • "Id fol	 "Depression may produce cognitive impairment or complaints of cognitive compromise and should be assessed as part of the evaluation of a patient with a potential dementia syndrome" "Treatment of depression in elderly individuals typically involves using a selective serotonin-reuptake inhibitor or a tricyclic antidepressant with few anticholinergic side effects, Patients may present with both dementia and depression and cognition may not improve following successful treatment of the depression syndrome; these patients should be further assessed for the etiology and management of their dementing disorder." "Identification of systemic abnormalities, such as hypothyroidism or vitamin B12 deficiency. should be followed by appropriate medical therapy. Many patients continue to decline despite these interventions and have the systemic disorder as a comorbid condition with AD" 								
	 "Use the Mini-Mental State Examination (MMSE)" or equivalent mental status questionnaire to evalu patients who are cognitively impaired" "Patients with abnormally low scores on the MMSE or who fail the expanded dementia screen should evaluated to determine if they meet criteria for a dementia syndrome. These include the presence of a memory abnormality, and impairments in at least one additional cognitive domain that are acquired an produce occupational or social disability. Patients who perform normally on these exams, or who fail meet criteria for dementia syndrome, but who are regarded as at risk because of positive responses on initial screen should be reassessed annually" 									
Testing		Some patient The MMSE i intellectual fi such as the cl abnormalities	s with suspected der s particularly insens unction or high educ lock drawing test," of s consistent with der	al status questionnaire to evalu nentia syndromes may not scor itive to mental status changes i ational levels. An expanded ex or functional assessments such nentia syndrome. Neuropsycho m changes associated with nor	re in the impaired rang in patients with high p amination with additi as the FAQ or PS-MS ological assessment m	ge on the MMSE, oremorbid onal cognitive tests, , may reveal				
	■ "P dia	the elderly sh a complete b and creatinin syphilis." atients meetir agnostic criter	ould be obtained on lood count, serum el e, thyroid stimulatin ng criteria for demen ia for AD. These inc	ntial etiologies of dementia and all patients with dementia syn ectrolytes including calcium, li g hormone, serum vitamin B12 tia without laboratory abnorma clude the presence of a dementi resent for greater than six mont	dromes. Routine labo iver function test, bloo 2 level, and a serologic alities should be evalu ia syndrome that has b	ratory tests Include od urea nitrogen cal test for ated for the been insidious in				

	neurological or behavioral features suggestive of alternative diagnoses should not be given a diagnosis of AD."
	 "Identification of a patient with AD should be followed by initiation of appropriate treatment (see accompanying treatment guidelines)."
	 "Those who do not meet criteria for AD, particularly because they have focal neurological signs, gait disturbances, or seizures, should be assessed for other causes of dementia."
	 "Patients who do not meet criteria for AD and do not meet criteria for neuroimaging, or whose brain imaging is normal or shows nonspecific brain atrophy, have an atypical dementia or an atypical form at AD"
	 "Some patients with cerebrovascular disease have mixed AD and ischemic brain injury. This will likely be manifested by a progressive clinical syndrome consistent with AD, plus focal neurological dysfunction and a steadily progressive course. These patients may be candidates for AD pharmacotherapy."
Diagnosis	 N/A
Monitoring	 N/A
Treatment	• N/A
Sponsorship / Conflict of	"The work of the Alzheimer's Disease Managed Care Advisory Council has been funded, in part, with an unrestricted educational grant from Pfizer Inc and Eisai Inc.
interest	Conflicts of interest were presented:
	 Dr. Fillit was Corporate Medical Director for Medicare at NYLCare Health Plans, now a subsidiary of Aetna U.S. Healthcare, during the initial development of these guidelines.
	 Dr. Cummings is supported by a NIA Alzheimer's Disease Research Center grant, an Alzheimer's Disease Research Center of California grant, and the Sidell-Kagen Foundation."

AA = Alzheimer's Association; AD = Alzheimer's disease; FAQ = Functional Activity Questionnaire; MCO = Managed Care Organization; MMSE = Mini-Mental State Examination; N/A = not applicable; NIA = National Institute on Aging; PS-MS = Physical Self-Maintenance Scale; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
None	2011	Spain	Patients with AD, with MCI, suspected dementia (including AD)	Panel selection + SLR + evidence evaluation and grading + external reviewers	Unclear	Not applicable
Screening	demen "Othe or the cogni "The there	ntia in individua er short screening e T@M can also tive impairment. performance of a are differences b	ls with cognitive con g tests, such as the Pf be recommended to s (Grade B)" a detailed neuropsych between the clinical in	screen dementia in ind nological assessment v	ge in our medium (C e 7-minute test, the ividuals who are sus via specific tests is re- cening tests, diagnos	Grade A)" clock test, the Eurotest spected of having ecommendable when tic doubts or else when
Testing	 "Diffe demendence" (Grad "Perfection 	erent biological a ntia in a research le C)" orming genetic a	and neuroimaging ma a context, but they ca	arkers can be used to h nnot be recommended sal mutations is indica	help predict the prog	ression of MCI to
Diagnosis	recom • "The (Grad • "The	nmended. (Grade determination of le A)"	D)" The APOE genotype CCT is recommended	sk factor associated wi is not recommended i to support the diagnos	in healthcare practic	e to diagnose AD
Monitoring	• N/A					
Treatment	recom • "The progra	nmended (Grade use of NSAID, r ession of MCI to	A)" eplacement therapy to dementia is not curr	elay the progression of with estrogens, ginkgo ently recommended. (biloba or vitamin E Grade A)"	to avoid or delay the
	the pr ■ "Trea	ogression of MC tment is recomm igmine 6-12 mg/	CI to dementia (Grade mended with ACE inh	nd cognitive stimulati e C)" ibitors (donepezil 5-1 day transdermal) in pa	0 mg/day, galantami	ine 16-24 mg/day or
	cogni • "The (Grad	tive and functior addition of mem le B, good clinica	nal symptoms, and to antine to donepezil is al practice)"	nended in patients with manage behavioral al s not recommended to	terations (Grade A)' treat patients with n	,
	"Neitl"Pirace	her ibuprofen, in cetam, Selegiline	dometacine nor low e, Ibedenone, or prop	l as treatment of AD (doses of naproxen are entofylline are not rec mended to treat AD or	recommended to tre ommended to treat A	· · · · · · · · · · · · · · · · · · ·

Table A-42.Clinical Practice Guideline on the Comprehensive Care of People with Alzheimer's
Disease and other Dementias [51]

Sponsorship /	• "Declaration of interest was presented in Appendix 5 and includes financial support from pharmaceutical
Conflict of	companies"
interest	

AA = Alzheimer's Association; ACE = angiotensin-converting enzyme; AChEI = acetylcholinesterase inhibitor; AD = Alzheimer's disease; APOE = apolipoprotein E; DLB = dementia with Lewy bodies; ¹²³I-FP-CIT SPECT= iodine I 123–radiolabeled 2β-carbomethoxy-3β-(4iodophenyl)-N-(3-fluoropropyl) nortropane single-photon emission computerized tomography; MCI = mild cognitive impairment; MIS = Memory Impairment Screen; MMSE = Mini-Mental State Examination; NIA = National Institute on Aging; NSAID = nonsteroidal anti-inflammatory drug; PDD = Parkinson's disease dementia; VD = vascular dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2018	UK	Suspected AD, Patients with AD	Multidisciplinary guideline committee + research evidence reviews	No	No		
Screening	 N/A 							
Diagnosis and testing	cognit Impain demer	ive screener (rment Screen (ntia is still susp	10-CS), the 6-item (MIS), the Mini-Co pected.	g, and Test Your Mem	est (6CIT), the 6-item ory (TYM)" in initial	screener, the Memory		
		-		erbal episodic memory				
	• "If the diagnosis is uncertain, and Alzheimer's disease is suspected, consider either:							
	 FDG-PET (fluorodeoxyglucose-positron emission tomography-CT), or perfusion SPECT (single-photon emission CT) if FDG-PET is unavailable; or 							
	 Examining cerebrospinal fluid for either total tau or total tau and phosphorylated-tau 181; and either amyloid beta 1–42 or amyloid beta 1–42 and amyloid beta 1–40." "Do not rule out dementia solely because the person has a normal score on a cognitive instrument" "Diagnose a dementia subtype (if possible) if initial specialist assessment (including an appropriate neurological examination and cognitive testing) confirms cognitive decline and reversible causes have been ruled out" "Offer structural imaging to rule out reversible causes of cognitive decline and to 							
	assist with subtype diagnosis, unless dementia is well established and the subtype is clear""Do not rule out Alzheimer's disease based solely on the results of CT or MRI scans"							
	 "Do not rule out Alzheimer's disease based solely on the results of C1 or MRI scans" "Do not use Apolipoprotein E genotyping or electroencephalography to diagnose Alzheimer's disease" 							
	 Bo not use Aponpoprotein E genotyping of electroencephalography to diagnose Alzheimer's disease "Be aware that young-onset Alzheimer's disease has a genetic cause in some people" 							
	 "When taking a history from someone who knows the person with suspected dementia, consider supplementing this with a structured instrument such as the Informant Questionnaire on Cognitive E in the Elderly (IQCODE) or the Functional Activities Questionnaire (FAQ)" 							
	should • "Amyl	not rely solely	y on cognition scor echniques have bee	ner's disease and the ne es in circumstances in v n licensed for use in the	which it would be inap	ppropriate to do so"		
M '4 '		ospinal fluid e						
Monitoring	• "Memo	ory services ar	nd equivalent hospi	with Alzheimer's disea tal- and primary-care-b or prescheduled monito	ased multidisciplinary	-		

Table A-43.Dementia: Assessment, Management and Support for People Living With Dementia
and Their Carers [11]

Treatment	 "The three AChE inhibitors—donepezil, galantamine, and rivastigmine—as monotherapies are recommended as options for managing mild to moderate Alzheimer's disease"
	 "Memantine monotherapy is recommended as an option for managing Alzheimer's disease"
	 "Combination therapy is a consideration"
	 "Do not offer cognitive training to treat mild to moderate Alzheimer's disease"
	 "Do not offer interpersonal therapy to treat the cognitive symptoms of mild to moderate Alzheimer's disease"
	 "Do not offer non-invasive brain stimulation (including transcranial magnetic stimulation) to treat mild to moderate Alzheimer's disease, except as part of a randomized controlled trial"
	 "Do not offer the following specifically to slow the progress of Alzheimer's disease, except as part of a randomized controlled trial: diabetes medicines, hypertension medicines, statins, non-steroidal anti- inflammatory drugs, including aspirin"
Caregiver	 "Offer carers of people living with dementia a psychoeducation and skills training intervention"
policies	 "Additional NICE guidelines are available on the transition to different care settings"
Sponsorship / Conflict of interest	 This guideline was developed by NICE

AA = Alzheimer's Association; AChE = acetylcholinesterase; AD = Alzheimer's disease; CSF = cerebrospinal fluid; FDG-PET = ¹⁸fluorodeoxyglucose-positron emission tomography; MIS = Memory Impairment Screen; N/A = not applicable; NIA = National Institute on Aging; NICE = National Institute for Health and Care Excellence; SPECT = single-photon emission computerized tomography;

TYM = Test Your Memory; UK = United Kingdom.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
None	2018	Denmark	Persons with dementia (including AD)	Workgroup	Not discussed	No
Screening	■ N/A					
Testing	■ N/A					
Diagnosis	■ N/A					
Monitoring	 N/A 					
Treatment	 N/A "It is good practice to consider a break in treatment in terms of discontinuation of dementia drugs during clinical observation for persons with very severe dementia. (Good practice)" "Discontinue antipsychotic medication (as a general rule with tapering) in persons with dementia in long-term (> 3 months) treatment (Strong recommendation)" "Consider offering melatonin to persons with dementia in the event of significant difficulty sleeping and/o circadian rhythm disorders. The treatment must be in addition to the non-pharmacological measures (Wea recommendation)" "Consider offering low-dose mirtazapine or mianserine to persons with dementia in the event of significant difficulty sleeping and/or circadian rhythm disorders, where treatment with approved drugs is inappropria The treatment must be in addition to the non-pharmacological measures. (Weak recommendation)" "Consider discontinuing use of antidepressants in persons with dementia without any known affective disorder who have been undergoing treatment for > 6 months. (Weak recommendation)" "It is good practice to consider reducing (e.g., in the form of fewer administrations) or pausing treatment with paracetamol with a view to discontinuation under clinical observation if it is uncertain whether the patient is experiencing pain and/or an effect of ongoing opioid treatment. (Good practice)" "It is good practice to pursue the existing recommended treatment targets for persons with dementia aged > 80. (Good practice)" 					
Sponsorship / Conflict of interest	• "The	guideline was pre	pared under the ausp	pices of the Danish	Health Authority"	

Table A-44. National Clinical Guideline on Dementia and Medicine [52]

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging.

^a Google Scholar citation count recorded as of July 14, 2022.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
None	2018	Denmark	Patients with MCI or dementia	Workgroup	Not discussed	No
Screening	■ N/A					
Diagnosis and testing	 system "Offerdemendemendemendemendemendemendemendem	natic, structured r structural imag ntia – both to exo ntia (Strong reco sider a systemati nentia. Where ap r after careful co- cted MCI, as the arkers may be us ntify the underly e event of contir ring structural in se based on analy cause of demen working group r psychologists or e event of contir sment and possib	clude other causes of c mmendation)" c assessment of activit popopriate, choose an A nsideration use biomar specificity of these bio sed in situations where ing cause of the cognit nued uncertainty regard haging of the brain, con ysis of the cerebrospina tia (Weak recommend ecommends that a neur equivalent professiona nued uncertainty regard	l of cognitive fun nection with the b ognitive impairme ies of daily living ADL (IADL) scale kers for Alzheime omarkers is relative in consultation we tive problems. (We ling a dementia di nsider offering an al fluid or amyloid ation)" ropsychological a als with relevant t ling the subtype of assessment, offer	ctioning (Strong recom- pasic clinical assessmer ent and to help to estab as part of a basic clini- e (Weak recommendati er's disease as part of a vely low, entailing mar- ith a patient with MCI eak recommendation)? fagnosis following a ba- examination of bioma d imaging in order to cl ssessment be carried ou raining (Strong recom- f dementia following a functional imaging (1	intendation)" it of suspected MCI or olish the subtype cal assessment of MCI on)" in assessment of my false positive cases. it is considered crucial sic clinical assessment rkers for Alzheimer's larify whether AD may ut by mendation)"
Monitoring	■ N/A					
Treatment	■ N/A					
Sponsorship / Conflict of interest	• "The	guideline was pr	epared under the auspi	ces of the Danish	Health Authority."	

Table A-45.National Clinical Guideline for Diagnosis of Mild Cognitive Impairment and
Dementia [15]

18F-FDG-PET = 18F-fluorodeoxyglucose-Positron emission tomography; AA = Alzheimer's Association; AD = Alzheimer's disease;

ADL = activity of daily living; IADL = Instrumental Activities of Daily Living; MCI = mild cognitive impairment; N/A = not applicable; NIA = National Institute on Aging.

Table A-46.Japanese Society of Neurology. Dementia Disease Treatment Guidelines – Clinical
Practice Guideline for Dementia 2017 [53]

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2017	Japan	Patients with dementia (AD), with MCI, suspected MCI/AD	Expert committee + SLR + evidence evaluation + external reviewers	No	Discussed		
Screening	(MM) tests a	SE) is widely u according to the	sed internationally in subject evaluated, th	e impairment in dement clinical setting and in r ne purpose and the envir n of each patient (Level	esearch. It is desirable conment, and interpret	le to add necessary		
Testing	tau or of ons resear deme	phosphorylate set of Alzheime rch in AD deme ntia include the	d tau level in cerebro or's disease dementia entia and MCI, while se markers as tests re	ve provided evidence fo spinal fluid (CSF) as bio . The NIA-AA criteria r the IWG-2 advancing r equired for diagnosis (Lo sm is not recommended.	omarkers for the diag ecommend use of the esearch diagnostic cr evel A)"	nosis and prediction ese biomarkers for iteria for AD		
	recom	nmended for ge	netic testing (Level C		C 1	facilities are		
	 "DSM-5 is recommended for clinical diagnosis of AD dementia. (Level A)" "Abnormal cerebrospinal fluid levels of Aβ42, phosphorylated tau, and total tau; presence of APOE gene ε4 polymorphism; and abnormal findings on amyloid PET and 18FDG-PET have been considered to be useful biomarkers for predicting conversion from mild cognitive impairment (MCI) to dementia. (Level B)" 							
	recom	nmended. Instea	ad of MMSE alone, a	gnitive impairment (MC adding slightly complex amnestic MCI (Level C	memory tasks such a			
Diagnosis			-	memory impairment. Si ognitive disorder in DS	-			
	 "The characteristic image findings of AD dementia are as follows: (1) CT and MRI depicting atrophy in medial temporal lobe, especially the hippocampus; (2) SPECT and FDG-PET showing decreased blood flow and glucose metabolism in bilateral temporal/parietal lobes and posterior cingulate gyrus, (3) amyloid PET indicating amyloid deposition in frontal lobe, posterior cingulate gyrus, and anterior wedge (Level A)" 							
	68% t AD d amyle studie	for MCI, and 32 ementia. In the bid PET examir es requires cons	3% in healthy older p NIA-AA criteria and nation is required as a ent, and general clini	ination are approximate persons. Amyloid PET n I IWG-2 advancing reservation biomarker of brain amplical use should conform rance in Japan (Level A	egativity is useful for arch diagnostic criter yloid deposition. Par to appropriate guide	r differentiating non- ria for AD dementia, ticipation in clinical		
Monitoring	 N/A 							
Treatment	donep evide: (Leve	pezil, galantami nce of efficacy el 1A)"	ne, and rivastigmine, has been demonstrate	ring cognitive function i , as well as the NMDA r ed for both classes of dr	eceptor antagonist m ugs, and their use is a	emantine. Scientific recommended		
	drugs	and the above	methods, consider us	nation and delusion, syn sing atypical antipsychol may also be considered	tics such as risperido			

	• "The therapeutic effects of non-pharmacological therapies depend largely on the patient's preference and the capability of the practitioner. Therefore, it is not meaningful to decide whether a therapy is superior or inferior. It is important that the patient participate willingly in therapy, and it is desirable to use multiple therapies as needed (Level C)"
Risk management	 "Control of hypertension, diabetes, dyslipidemia and other risk factors, as well as continued practice of moderate exercise are recommended. There is no sufficient evidence that anti-dementia drugs should be used for the purpose of preventing progression to dementia in MCI (Level 2C)."
Sponsorship / Conflict of interest	 "Funds necessary for preparation of this guideline were borne by the Japanese Society of Neurology." "This guideline was prepared based on appropriate conflict of interest management according to the "Regulations related to preparation of Japanese Society of Neurology clinical practice guideline", "Guide to preparation of Japanese Society of Neurology clinical practice guideline" and "Rules for establishment and operation of Japanese Society of Neurology conflict of interest committee." "Enterprises that declared conflict of interest were provided."

AA = Alzheimer's Association; AD = Alzheimer 's disease; APOE = apolipoprotein E; CDR = Clinical Dementia Rating; ChEI = cholinesterase inhibitor; CSF = cerebrospinal fluid; CT = computed tomography; DSM-5 = *Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition*; FDG-PET = Fluorine-18-Fluorodeoxyglucose Positron Emission Tomography; ICD-10 = *International Statistical Classification of Diseases, Tenth Revision*; IWG-2 = International Working Group; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; MoCA- J = Montreal Cognitive Assessment-Japanese version; MRI = Magnetic Resonance Imaging; N/A = not applicable; NIA = National Institute on Aging; NIA-AA = National Institute on Aging and Alzheimer's Association; NMDA = *N*-Methyl-D-aspartate; PET = positron emission tomography; SPECT = Single-Photon Emission Computed Tomography.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2019	Ireland	People with AD	Search of existing guidelines + SLR developed by a workgroup	Not discussed	No		
Screening	 N/A 							
Testing		-		medication in a person ly trained healthcare pro-	-			
Diagnosis	 N/A 							
Monitoring	 N/A 							
Treatment	 "Non-pharmacological interventions should be used initially to treat non-cognitive symptoms in a person with dementia, unless there is severe distress, or an identifiable risk of harm to the person and/or others (QoE: High, SoR: Strong)" "Antipsychotic medication should be used with caution and only in cases where there is aggression, agitation or psychosis that either causes an identifiable risk of harm to the person with dementia and/or others or causes severe distress to the person (QoE: High; SoR: Strong)" "People with AD, vascular dementia or mixed dementias with mild to moderate non-cognitive symptoms should NOT be prescribed antipsychotic medication due to the increased risk of cerebrovascular adverse 							
	 events and death (QoE: High; SoR: Strong)" "People with AD, VD, mixed dementias, dementia with Lewy bodies, or PD dementia, with severe non-cognitive symptoms, causing severe distress, or an identifiable risk of harm to the person and/or others, may be offered antipsychotic medication, where appropriate (QoE: Moderate; SoR: Conditional)" 							
	 "Acetylcholinesterase inhibitors are indicated for cognitive enhancement in people with mild to moderate AD but are NOT recommended solely for the treatment of non-cognitive symptoms in a person with AD. (QoE: High; SoR: Strong)" 							
	demei	 "Memantine is indicated as a cognitive enhancer in people with moderate to severe AD, Parkinson's disease dementia and dementia with Lewy bodies, but it is NOT recommended to be prescribed solely for the treatment of non-cognitive symptoms in a person with dementia. (QoE: Moderate; SoR: Strong)" 						
	 "In people with mild to moderate dementia, and mild to moderate depression and/or anxiety, psychological treatments should be considered. Antidepressants may be considered to treat severe comorbid depressive episodes in people with dementia, or moderate depressive episodes that have not responded to psychological treatment (QoE: Moderate, SoR: Conditional)" 							
Sponsorship / Conflict of interest	Natio		Office, to fulfil a pr	been developed by a guid iority action point of the				

Table A-47.Appropriate Prescribing of Psychotropic Medication for Non-Cognitive Symptomsin People with Dementia [54]

AA = Alzheimer's Association; AD = Alzheimer's disease; N/A = not applicable; NIA = National Institute on Aging; PD = Parkinson's disease; QoE = quality of evidence; SoR = strength of recommendation; VD = vascular dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2021 (update 2009 version)	Malaysia	Adults with dementia or MCI	SLR-based, developed by a multidisciplinary team	No	No		
Screening	 "The evidence on routine screening for cognitive impairment among asymptomatic community-dwelling adults age 65 and older is insufficient to determine the balance of its benefits and harms" "The evaluation of dementia should be targeted at patients who present with memory complaints (by patients themselves and/or carer), have clinical suspicion of cognitive impairment or are at increased risk for dementia as well as elderly patients who have questionable mental capacity" "Laboratory tests for basic dementia screening are indicated to exclude dementia-mimicking conditions" 							
Testing Diagnosis	 N/A "The diagnosis t of dementia should be based on detailed history and physical examination, and supported by cognitive, functional and behavioral evaluation." Common cognitive assessment tools in clinical practice: AD8 Dementia Screening Interview, Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE), Mini–Mental State Examination (MMSE), Montreal Cognitive Assessment (MoCA), Mini-Cog, etc. "Structural neuroimaging (computed tomography or magnetic resonance imaging) should be done in evaluation of dementia to exclude reversible causes of cognitive decline and other intracranial pathology." 							
	 "Electroencephalogram should be considered in rapidly progressive cognitive decline and atypical features of dementia." "Diagnosis of dementia should be made based on DSM-5 or ICD-10." 							
Monitoring Treatment	 "Done, "Rivas "Mema AChEl "Antip (PWD) "Antiod "Antiod may "The unindicat "To im activity "In peed 	pezil should be tigmine is an o antine may be o (s." sychotics may) where there is pepressants: / be considered / be prescribed / be prescribed / be prescribed / be prescribed / be prescrib	offered in AD of a ption in mild to me considered in mode be considered for l s a risk of harming for PWD who hav for PWD with pre- nergic medications cribed whenever p- e function in mild ered."	all severity." oderate AD." erate to severe AD as r behavioral and psycho themselves or others." re agitation -existing severe menta in dementia should be ossible." to moderate dementia, oral and psychologica	l health problem" e done cautiously with cognitive stimulation l symptoms:	bination with cople with dementia regular review of		
	 explore and address possible clinical or environmental causes/triggering factors offer psychosocial and environmental interventions as initial and ongoing treatment: psychological intervention for depressive symptoms and/or anxiety 							

 Table A-48.
 Clinical Practice Guidelines: Management of Dementia [55]

	 personalized and tailored activities for agitation and aggression"
	 "There is insufficient evidence to recommend the use pharmacological intervention in MCI"
	 "There is insufficient evidence to recommend the use of traditional and complementary medicine in the treatment of dementia"
Risk reduction	 "Risk reduction strategies should be advocated to reduce the risk of developing cognitive decline and/or dementia. These include:
	- Physical activity
	- Tobacco cessation
	 Interventions for alcohol use disorders
	 Management of hypertension
	 Management of diabetes"
Sponsorship / Conflict of	 "The development of the CPG on Management of Dementia (Third Edition) was supported financially in its entirety by the Ministry of Health Malaysia"
interest	 "None held shares in pharmaceutical firms or acts as consultants to such firms"

AA = Alzheimer's Association; AChEI = acetylcholinesterase inhibitor; AD = Alzheimer's disease; DSM-5 = *Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition*; ICD-10 = *International Statistical Classification of Diseases, Tenth Revision*; N/A = not applicable; NIA = National Institute on Aging; PWD = people with dementia.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2010	Singapore	Asymptomatic older adults	Existing evidence-base	Not discussed	No		
Screening	 "Currently, community screening or routine screening in the primary care setting for dementia in asymptomatic older persons is not recommended. (Grade C, level 2+)" 							
Testing	 N/A 							
Diagnosis	 N/A 							
Monitoring	 N/A 							
Treatment	 N/A 							
Sponsorship / Conflict of interest	 Not d 	iscussed						

Table A-49.Singapore Ministry of Health. Functional Screening for Older Adults in the
Community [56]

AA = Alzheimer's Association; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2011	US	Suspected AD, with AD	Two acclaimed American Geriatrics Society guidelines - based	No	No		
Screening	■ N/	A						
Diagnosis and testing	 Hi As Ev dej les Mi "Neur Ma FE Clinici 	sess functiona raluate mental pression. Usef s than 10 mark ini-Cog is posi roimaging (MI ay detect the 5 OG-PET scans cal features dis	l status status for attention, i ul screening tests are cedly abnormal), MN tive, use MMSE (wv RI or CT of the brain % of patients with c approved by Medica tinguishing AD:	and neurologic examination immediate and delayed reca e the Mini-Cog, number of MSE, Geriatric Depression ww.minimental.com) or Mo n): linically significant structur are for atypical presentation turbances, indifference, del	all, remote memory, e animals named in 1 n Scale, Patient Health ontreal Cognitive Ass al lesions that otherw of AD.	ninute (18 is average; Questionnaire-9. If essment."		
Monitoring	■ N/		1	, ,	, 8			
Treatment	■ "P _ _							
Cognitive test information	t ∎ "Ir	nformation to c		g screen for Dementia, Ger	iatric Depression Sca	lle, Reisburg		
Sponsorship/ Conflict of interest			eriatrics Society (AG althcare professiona	GS) makes this convenient g ls.	guide. The AGS is a r	nationwide, non-profit		

Table A-50. A Guide to Dementia Diagnosis and Treatment [57]

AA = Alzheimer's Association; AD = Alzheimer's disease; CT = computed tomography; FDG = 18fluorodeoxyglucose; MMSE = Mini-Mental State Examination; MRI = magnetic resonance imaging; N/A = not applicable; NIA = National Institute on Aging; PET = positron emission tomography; US = United States.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines		
None	2013	Singapore	Suspected cognitive impairment or dementia, patients with AD	Workgroup	Unlikely	No		
Screening	compla	aints suggestive	ld be evaluated for den of dementia, as well as at despite absence of co	patients who arou	use the physician's or	-		
Testing	diagno "In inc for der with b "Gene "Routi	se dementia earl lividuals with su nentia with histo edside cognitive tic testing should	spected cognitive impa ory from a reliable info tests and/or neuropsyc l not be routinely carrie OE gene is not recomm	s of dementia and airment, diagnosis rmant. This should chological assessm ed out in the clinic	establish the cause of should be made using d be supplemented by ent (Grade B, level 2 cal evaluation of demo	f the dementia. (GPP)" g the DSM-IV criteria an objective approach +++)" entia (GPP)"		
Diagnosis	 "Clinic 	cians should mak				e criteria. A number of B, level 2++)"		
Monitoring	■ N/A							
Treatment	 "AChE-Is (donepezil, galantamine or rivastigmine) should be considered for the management of patients with mild to moderate AD (Grade A, level 1++)" "AChE-Is may be considered for the management of moderately severe to severe AD (Grade A, level 1+)" "Where tolerated, AChE-Is should be titrated to recommended doses (5-10 mg/day donepezil; 16-24 mg/day galantamine; 6-12 mg/day oral and 4.6-9.5 mg/24 hr transdermal rivastigmine), which have been 							
	 shown to confer greater benefit compared with lower doses (Grade A, level 1++)" "N-methyl-d-aspartate antagonists (memantine) may be considered for the management of moderately severe to severe Alzheimer's disease, either alone or in combination with AChE-Is (Grade A, Level 1+)" 							
	 "Memantine may be considered for treatment of mild to moderate AD, if AChE-I therapy is contra- indicated, not tolerated or if there is disease progression despite an adequate trial of AChE-I (Grade A, level 1+)" 							
			commended for the pro-	-				
	 "Estrogen is not recommended for the prevention of cognitive decline in women with AD (Grade A, Level 1++)" 							
	 "Selegiline is not recommended for the treatment of core or associated symptoms in AD (Grade A, Level 1+)" 							
	 "High dose vitamin E (in excess of 400 IU per day) is not recommended for the prevention or treatment of AD (Grade B, Level 1+)" 							
			ecommended for the p					
	-	litazone is not re ate AD (Grade A	ecommended as monot , Level 1+)"	herapy or as adjur	nctive therapy to ACh	E-Is in mild to		
Sponsorship / Conflict of interest		guidelines have ct of interest was	been produced by a co s not discussed.	mmittee appointed	d by the Ministry of H	Iealth Singapore.		

Table A-51. Singapore Ministry of Health. Dementia [14]

- AA = Alzheimer's Association; AChE-I = acetylcholinesterase inhibitor; AD = Alzheimer's disease; APOE = apolipoprotein E; DSM-IV = *Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition*; GPP = good practice point; N/A = not applicable; NIA = National Institute on Aging.
- ^a Google Scholar citation count recorded as of July 14, 2022.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines				
None	2012	US	Suspected AD or MCI, patients with dementia (including AD), patients with MCI	Systematic literature search, critical appraisal, and evidence synthesis by a workgroup	Not discussed	No				
Screening	■ "Univ	ersal screening	for dementia is not re	commended"						
Testing	for dia	agnosing Alzhe	used a clinical diagno eimer's and MCI. Resu specificity than the M	Its from these studies	suggest that the MoCA	•				
Diagnosis	an ass exami • "A dia	essment includ nation, and a r agnosis of dem	entia should be made o les detailed history tak eview of medications.' entia cannot be made s d it requires that functi	ing, cognitive- and me olely on the basis of t	ental-state examination he results of any of the	n, physical				
		• "For the majority of cases, a dementia diagnosis can be made from the patient's history, so imaging is not necessary. If a patient has memory loss plus warning signs, then imaging is indicated"								
Monitoring	 Medica 	ation monitorir	ng: "6–8 weeks after in	itiating medications, a	and every 6 months the	ereafter"				
	e		ng: to assess progression	with patient and careg	iver. These visits can	be by phone or e-				
	– "Pa	atients should b	e seen in person at lea	st annually"						
Treatment		 "MCI: Medications are not recommended. Meticulous review of current medication list is recommended to determine any medications that may be clouding cognition or may be eligible for a trial "holiday"." 								
		 "Results from several RCTs suggest that in patients with MCI, acetylcholinesterase inhibitors do not significantly improve cognitive function or reduce the rate of progression from MCI to dementia" 								
	-	e	dementia: 1 st line: Don	•						
	 "Treat 	tment for behav	vioral and psychologic	al symptoms of demen	ntia were recommende	ed"				
Sponsorship / Conflict of interest			eline development tea mily medicine, neurolo	•		• •				

Table A-52.	Dementia.	Diagnosis a	and Treatment	Guideline	[58]
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AA = Alzheimer's Association; MCI = mild cognitive impairment; MMSE = Mini-Mental State Examination; MoCA = Montreal Cognitive Assessment; N/A = not applicable; NIA = National Institute on Aging; RCT = randomized controlled trial; US = United States.

Google Scholar citationsª	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
None	2019	Ireland	Suspected or with dementia (including AD)	Evidence-based, SLR review	Unlikely	No
Screening	■ N/2	A				
Diagnosis a Testing	- "In - - - - - -	such as anemia du General Medical inhibitors may ind block)" westigations in Se CT Scan (to exclu hematoma, norma MRI Scan (a sens Single-photon em Lewy Body disea Carotid ultrasoun EEGs are not part The use of positro assist in the differ occasionally utiliz	SR, U&E, TFTs, Glu le to B12 deficiency Investigations: Chest duce sinus bradycard condary Care de intracranial lesion al pressure hydroceph itive indicator of cere- ission tomography (t se. d (if large vessel athe c of routine workups. on emission tomograp rential diagnosis and zed by specialists ass s associated with an i	cose, Lipids, Calcium or renal disease and to X-Ray and MSU if c ia and aggravate pre-c as, cerebral infarction halus) ebrovascular disease) o assess regional bloc prosclerosis suspected oby (PET) and other f subtyping of dementia essing complex cases increased risk of confi-	o exclude reversible of linically indicated; Every existing sinus node di and hemorrhage, ext od flow) and dopamin) functional neuroimagi a, is an area of invest ."	eauses. CG (Cholinesteras sease and AV ra and subdural the scan to detect ng techniques, to igation
 Monitoring "Regular physical examination should focus on hearing, vision, nu In the later stages of dementia dental hygiene may be poor, leading infection and difficulty eating. Dental review both early and throug these problems (level 5)." "Immunization guidelines recommend flu vaccine administration fl long stay institutions, as well as in persons aged 65 years and over "Along with this regular review, a risk assessment should be perfor others." 			, nutrition, bowel and ding to gum disease, t roughout the illness n on for residents of nu over (level 5)."	l bladder function. tooth decay, nay help to addres rsing homes and		
shown that AChEIs ar Effect sizes are modes "Memantine: may be management of moder and for severe AD. It "Guidelines recomme			e Inhibitors (AChEIs): options for managing mild to moderate AD. Evidence has are of some benefit in terms of improvements in cognition and ADLs (Level 5). est." considered as the person's dementia progresses. It is recommended for the erate AD for patients who are intolerant of or have a contraindication to AChEIs t may be used alone or in combination with cholinesterase inhibitors (Level 1)." end that non-pharmacological strategies be used first-line for BPSD, unless the a poses a significant risk to themselves or others (level 1)."			
Sponsorship / Conflict of interest• The work was developed • Conflict of interest with				y and Safety in Practi	ce Committee	

Table A-53. Dementia: Diagnosis & Management in General Practice [10]

AA = Alzheimer's Association; AChEI = acetylcholinesterase inhibitor; AD = Alzheimer's disease; ADL = activity of daily living; AV = atrioventricular; BPSD = behavioral and psychological symptoms of dementia; CT = computed tomography; ECG = electrocardiogram; EEG = electroencephalogram; ESR = erythrocyte sedimentation rate; FBC = full blood count; MRI = magnetic resonance imaging; MSU = mid-stream urine; N/A = not applicable; NIA = National Institute on Aging; PET = positron emission tomography; TFT = thyroid function test; U&E = urea and electrolytes.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines
None	2009	France	Patients with AD	Workgroup	Not clear	No
Screening	•	N/A				
Testing	•	N/A				
Diagnosis	-1	 Assess th others; Talk to a going on Investiga fecaloma iatrogeni Undertak and its ir Repeat th persists In the ev 	nd examine the patient , circumstances in whi te an environmental ca , etc.) or psychiatric ca c factors; a a more in-depth clin nplications; his etiological review a	langer or functiona t and talk to family ch it occurs); ause, somatic cause ause (severe anxiet ical assessment of t different points c ersisting after sever	I risk in the short term and friends (how long e (urine retention, infec y) to be treated as a pri the behavior, the exten of the patient's manage ral days, they should be	the behavior has been been acute pain, tority, together with at to which it occurs ment if the problem
Monitoring and preventing	pat	ient. General pr Providing infor Training of heal	eventive action include nation and support to t th professionals;	es: family carers;	loped and adjusted to s as possible to his cond	
Treatment		 "Priority predispo "Approp BDs." "Psychot "Treatmode 	areas for investigation sing factors." riate non-pharmacolog ropic agents are not ef	are somatic and p ical methods shou fective in preventingents must not be	sychiatric causes, trigg ld be used as the first-l- ng the onset of BDs." prescribed unless an as	er factors and ine treatment for
Sponsorship / C of interest	Conflict The		developed by the Fren	•	0 0	

Table A-54. Haute Autorité de Santé. Alzheimer's Disease and Related Conditions: Management of Behavioral Disorders [59]

AA = Alzheimer's Association; BD = behavior disorder; N/A = not applicable; NIA = National Institute on Aging.

Google Scholar citations ^a	Year published	Country	Target population	Method of developing guidelines	Manufacturer engagement	Cites 2011 NIA and AA guidelines	
None	2012	Spain	Patients with AD, suspected AD	Workgroup	Unclear/Indirect	Yes	
Screening		-	estionnaire (Short Portabl Ainute Screen (7MT)	e Mental Status Qu	uestionnaire, SPMSQ), (Clock Drawing Test	
Diagnosis a	nd testing	Test (CDT Screen (7N CAMDEX and Hopki	e assessments: Global Det 7), Pfeiffer Questionnaire 8 MT), cognitive Alzheimer 4-R Cambridge exploration ins Verbal Learning Test (Short Portable Mer 's Disease Assessm n test, reviewed for HVLT)."	ntal Status Questionnaire nent Scale (ADAS), CAl the evaluation of old ag	e (SPMSQ), 7 Minute M-COG (subtest of the ge mental disorders),	
		 "Behavioral evaluation: Neuropsychiatric Inventory (NPI), non-cognitive Alzheimer's Disease Assessment Scale (ADAS)." 					
		 "Emotional evaluation: Geriatric Depression Scale, Cornell Scale for Depression in Dementia." 					
		 "Evaluation of other components: Alzheimer's Disease-Related Quality of Life (ADRQL)." 					
		 "Detailed list of trials regarding biomarker investigation." 					
Monitoring		 "…Changing treatments as applicable. 					
		 Informing the infirmary of changes to medication for immediate application" 					
		 "Prepare and update his or her clinical record" 					
		 "Refer residents to a hospital when deemed necessary" 					
		"Carry out control and monitoring activities with each resident"					
Treatment		 Non-pharmacological therapies suggested from the neuropsychology area, occupational therapy area, social work area 					
		• "Pharmaceutical: cholinesterase inhibitors: donepezil, rivastigmine, galantamine, and memantine."					
Sponsorship / Conflict of interest		"This guide has been prepared by professionals working in the Care Unit at the Reina Sofia Foundation's Alzheimer Centre."					
		Conflict of interest information was not presented.					

Table A-55.	Practical Guide for Alzheimer Professionals	(Reina Sofia Foundation) [60]

 7MT = 7 Minute Screen; AA = Alzheimer's Association; ADAS = Alzheimer's Disease Assessment Scale; ADRQL = Alzheimer's Disease– Related Quality of Life; CAM-COG = Cambridge Cognition Examination; CDT = Clock Drawing Test; GDS = Global Deterioration Scale; HVLT = Hopkins Verbal Learning Test; MMSE = Mini-Mental State Examination; N/A = not applicable; NIA = National Institute on Aging; NPI = Neuropsychiatric Inventory; SPMSQ = Short Portable Mental Status Questionnaire.

A4. GUIDELINES SUMMARY FOR HIGHLY CITED GUIDELINES AND GUIDELINES PUBLISHED BEFORE 2018

The 2 sections below present summaries of the recommendations for screening, diagnosis, treatment, and monitoring in the clinical practice guidelines identified in the systematic searches performed for this review for 2 subsets of guidelines: (1) the recommendations from the most highly cited guidelines using Google Scholar and (2) the recommendations from clinical practice guidelines published before 2018. A summary of the recommendations from the clinical practice guidelines published in 2018 and more recently is presented in the Results section of this article's main text. In addition, changes in guidelines that were observed between the pre-2018 guidelines and the post-2018 guidelines are summarized in the Discussion section of this article's main text.

A4.1 Most Highly Cited Guidelines

Four guidelines have been cited more than 1,000 times in Google scholar [8,20-22] as a metric for reach and influence. It should be noted that, while the number of Google scholar citations is 1 metric to assess potential impact and reach of a given guideline, this number does not necessarily reflect the actual usage in the real world. The practice guidelines with the highest Google Scholar citations are 2 publications from National Institute on Aging-Alzheimer's Association (NIA-AA) guidelines, with 12,299 and 8,778 Google Scholar citations for AD dementia and MCI due to AD, respectively [20,21]. Both of NIA-AA guidelines were developed by the NIA-AA Workgroups (panelists from United States, United Kingdom, France, Canada) on Diagnostic Guidelines for Alzheimer's disease [20,21]. Both of American Academy of Neurology (AAN) guidelines were from the United States, following the AAN's guideline development process, including panel selection, systematic review, and evidence analysis based on the quality and strengths of evidence [8,22]. The AAN guideline published by Knopman et al. [22], was developed for suspected AD or suspected dementia focusing on diagnosis; whereas, the AAN guideline published by Petersen et al. [8] was developed for MCI relating to AD and covered all aspects of disease management.

A4.1.1 Screening Recommendations Presented in the Most Highly Cited Guidelines

Of the most highly cited guidelines, recommendations for screening were discussed in the AAN dementia 2001 and AAN MCI 2018 guidelines [8,22]. The AAN MCI 2018 guidelines advised clinicians to assess for MCI (particularly relating to AD) and not assume that concerns about memory or impaired cognition were due to normal aging for patients or those with close contact who expressed concerns about memory or impaired cognition [8]. The rationale for this recommendation was justified by the fact that a proper assessment of MCI was imperative to determine whether there were any reversible causes of cognitive impairment and that subjective complaints might indicate changes in cognitive function [8]. The AAN MCI 2018 also mentioned that clinicians should not rely solely on historical reports of subjective memory concerns when assessing for cognitive impairment during a Medicare Annual Wellness Visit in order to reduce overdiagnosis or underdiagnosis of MCI relating to AD [8]. For patients who are appropriate for MCI screening or assessment, it was advised to screen for MCI using brief, validated screening instruments; patients who test positive for MCI should then undergo additional formal assessments since the brief tests may be insufficient [8]. The AAN dementia 2001 guidelines recommended screening for comorbidities that could occur in patients with suspected dementia (e.g., depression, B12 deficiency, hypothyroidism) [22].

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A4.1.2 Testing and Diagnosis Recommendations Presented in the Most Highly Cited Guidelines All of the most highly cited guidelines presented testing and diagnosis recommendations [8,20-22]. Excluding other systemic or brain diseases causing the impaired cognition before giving a diagnosis of MCI due to AD is recommended in 2 guidelines [8,21]. Cognitive tests have been recommended, but not specified in all guidelines [8,20-22]. The 2011 NIA-AA guidelines emphasized that biomarkers increased the certainty of an AD diagnosis only [20,21]. Biomarkers were not recommended for routine diagnosis of AD in the most highly cited guidelines [8,20,22]. The NIA-AA AD dementia recommendations indicated that the limitations in standardization and accessibility of biomarkers, the lack of sufficient evidence to support incorporating biomarker use into current criteria, and the ability of the core clinical criteria to provide good diagnostic accuracy precluded the use of biomarkers in routine diagnosis [20]. According to AAN MCI guidelines, clinicians could refer patients who are interested in testing for biomarkers to research organizations [8]. NIA-AA guideline documents noted that testing of AD genes might increase the certainty of diagnosis, but those tests were not sufficient to be lone predictors [20,21]. Cerebrospinal fluid (CSF) testing, amyloid-focused imaging of AD, and fluorodeoxyglucose (FDG) uptake and brain structural atrophy may also be used to confirm an AD diagnosis [20,21]. According to NIA-AA AD dementia guidelines, positive PET amyloid imaging and low CSF A β 42 protein levels both indicate brain amyloid beta (A β) protein deposition [20]. Indicating tau protein, the 3 major biomarkers were elevated CSF tau, total tau, and phosphorylated tau (p-tau); decreased FDG uptake on PET in the temporoparietal cortex; and disproportionate atrophy on structural MRI in the medial, basal, and lateral temporal lobes and medial parietal cortex [20].

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A4.1.3 Treatment Recommendations Presented in the Most Highly Cited Guidelines

Only the AAN 2018 guidelines from the list of the most highly cited guidelines provided recommendations on treatment [8]. This practice guideline targeted the AD-related MCI population and recommended that nonpharmacological interventions such as regular exercise and cognitive training should be used in MCI patients in the context of the absence of pharmacologic or dietary agents approved by the US Food and Drug Administration for symptomatic cognitive benefit [8].

A4.1.4 Monitoring Recommendations Presented in the Most Highly cited Guidelines

Only the AAN 2018 guidelines provided recommendations on monitoring from the list of most highly cited guidelines [8]. Frequent reviews of medications and cognitive status were recommended.

A4.2 Guidelines Published Before 2018

A4.2.1 Screening

Several guidelines released prior to 2018 offered recommendations for the general or asymptomatic population, despite the fact that the most highly cited and recently published guidelines did not cover these target populations. Those guidelines published before 2018 indicated that screening for the general or asymptomatic population should not be undertaken due to insufficient evidence or unclear benefits/harms [36,38,41,43,56]. One Australian practice guideline published in 2016 encouraged general practitioners to investigate symptoms of cognitive decline, particularly in people aged over 75 years, and examine the symptoms when they are first raised [41]. Consistent with the most highly cited and recently published guidelines, some guidelines recommended that screening should be considered for persons at risk of AD, such as adults with intellectual disability [12], patients older than 75 years who complain of memory impairment, or patients with a family history of memory disorders [13], and individuals whom the physician or family suspects of having a cognitive impairment despite a lack of complaint [14]. A basic dementia screen including blood, biochemistry, and functional tests was recommended in the Australian 2016 guidelines [41]. Other screening instruments suggested were Folstein's Mini-Mental State Examination (MMSE) and the Milan Overall Dementia Assessment in the Italian Neurological Society Guidelines 2004 [43] and the MMSE and a range of short tests (e.g., the Pfeiffer test, the Memory Impairment Screen, the 7-minute test, the clock test) in the Spanish 2011 guidelines [51].

A4.2.2 Testing and Diagnosis

Similar to the most highly cited and recently published guidelines, neuropsychological testing was recommended as a complementary tool to detect AD and MCI. Other tests were proposed; in particular, the Montreal Cognitive Assessment (MoCA) was encouraged in some guidelines because of its high sensitivity and accuracy [48,58]. A Japanese guideline indicated that the MoCA-Japanese version should be used to detect MCI rather than the MMSE [53]. Other recommendations on testing and diagnosis from guidelines published before 2018 were consistent with the most highly cited and recently published guidelines.

A4.2.3 Treatment

These guidelines recommended nonpharmacological interventions for MCI and acetylcholinesterase (AChE) inhibitors and memantine for AD symptom treatment, in accordance with the recommendations for treatment from the most highly cited and recently published guidelines.

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A4.2.4 Monitoring

Several guidelines advocate for a frequent follow-up or re-assessment at least every 3-6 months for patients with AD dementia on pharmacologic treatment to manage safety and treatment efficacy [24,28,36]. The Luxembourgish 2016 guidelines for suspected MCI indicated that individuals who were within the norms and correspond to noncognitive or minor cognitive impairments should undergo a retest 6-12 months later [48]. The American 2002 guidelines for patients with AD recommended considering the culture, language, and decision-making processes of the patients and caregivers during the monitoring period [28].

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