DEMENTIA

AGS Geriatrics Evaluation and Management Tools (Geriatrics E&M Tools) support clinicians and systems that are caring for older adults with common geriatric conditions.

attention tasks (ie multi-tasking)

No impairment in social and

occupational functioning

From the AMERICAN GERIATRICS SOCIETY

Geriatrics Evaluation & Management Tools

independence in everyday activities.

Other medical and psychiatric conditions,

including delirium, have been excluded

SCREENING

DIFFERENTIAL DIAGNOSIS

- Although routine screening for dementia is not currently recommended for all geriatric patients by the
 US Preventive Services Task Force, patients should be asked about memory concerns and a cognitive
 evaluation should be done if appropriate.
- If a patient or family member expresses concerns about cognitive decline, or a provider notices dementia warning signs, a mental status assessment and dementia evaluation is indicated.
 - Possible warning signs include unkempt appearance, poor historian, difficulty following directions, repeating the same question, lost in familiar places, missing appointments, frequently misplacing items, and difficulty managing bills, finances, or medications.
 - Cognitive testing should be conducted in the patient's primary language (if possible).
 - Diagnosis of dementia is a clinical diagnosis taking into account multiple factors with cognitive screening being only one.

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Examples of Screening Instruments for the Evaluation of Cognition							
Instrument Name	Cognitive Domains Assessed			Available			
Mini-Cog	Visuospatial, executive function, recall			h	http://geriatrics.uthscsa.edu/tools/MINICog.pdf		
St. Louis University Mental Status (SLUMS) Examination	Orientation, recall, calculation, naming, attention, executive function		http://medschool.slu.edu/agingsuccessfully/ pdfsur.veys/slumsexam_05.pdf				
Montreal Cognitive Assessment (MoCA)			ecall, attention, naming, repetition, , abstraction, executive function,		Developers require training/certification to administer, score and interpret. www.mocatest.org		
Folstein Mini–Mental Status Examination	Orientation, registration, attention, recall, naming, repetition, 3-step command, language, visuospatial		Copyrighted document for purchase: www.minimental.com				
Normal Aging			Mild Cognitive Impairment		Alzheimer Dementia (DSM-5 Diagnostic Criteria)		
 Mild decline in memory More effort/time needed to recall new info New learning slowed but well compensated by lists, calendars, etc. Decreased efficiency in divided 		•	Subjective complaint of cognitive decline in at least one domain of memory, executive function, language or visuospatial perception Cognitive decline is noticeable and measurable (see screening	:	Significant objective decline in memory and learning in one or more cognitive domain of disturbed executive functioning, language, visuospatial ability, perceptual motor ability The cognitive decline is steady and progressive. The cognitive deficits interfere with		

Frontotemporal **Alzheimer Disease** Vascular Dementia **Lewy Body Dementia** Dementia Gradual (age of onset <65) Onset Gradual Sudden or stepwise Gradual Memory, difficulty Executive dysfunction, Cognitive domains Depends on location of Memory, visuospatial, learning, language, visual hallucinations, personality changes, and symptoms ischemia visuospatial, managing disinhibition, language, fluctuating symptoms; REM sleep behaviors; complex tasks ± memory extreme sensitivity to neuroleptic medication Motor symptoms Rare early Apraxia later Correlates with ischemia Parkinsonism, present at None time of onset of cognitive changes; frequent falls Progression Gradual (over 8-10 yr) Gradual or stepwise Gradual, but faster than Gradual, but faster than Alzheimer's disease Alzheimer disease Possible global atrophy Possible global atrophy Atrophy in frontal and **Imaging** Cortical or subcortical ischemic changes on brain temporal lobes MRI

HISTORY OF PRESENT ILLNESS

- Document cognitive domains affected; interview patient and family or other informant.
- Document time course of onset and progression of cognitive and motor symptoms.
- Document time course of onset and progression of impairment in social and occupational functioning.
 Impairment in social and occupational functioning may be evidenced by impairment in activities of daily living (ADLs) and instrumental activities of daily living (IADLs).
- Exclude depression (see *Screening*, AGS Geriatrics Evaluation and Management: Depression).

instruments)

No impairment in social and

occupational functioning

Exclude delirium (see Screening, AGS Geriatrics Evaluation and Management: Delirium).

PAST MEDICAL HISTORY

 Possible risk factors for Alzheimer disease include advancing age, history of head trauma, late-onset major depressive disorder, fewer years of formal education, risk factors for cardiovascular disease, and family history of Alzheimer disease in first-degree relative.

FAMILY HISTORY

- Most commonly Alzheimer disease begins late in life, after age 65.
- Rare forms of familial Alzheimer disease begin before age 60.

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SOCIAL HISTORY	Document educational level primary language, work history, living arrangement, substance use and abuse, driving, firearms, and caregiver stress/ adequacy of caregiver support.		
REVIEW OF SYSTEMS	Screen for behavioral disturbances such as wandering, self-neglect, physical aggression, hallucinations, delusions, etc. (see <i>Screening</i> , AGS Geriatrics Evaluation and Management: Behavioral Disturbances in Dementia).		
MEDICATIONS	Thoroughly review medications and decrease or discontinue medications that increase cognitive, physical, or functional disability. Discontinue non-essential medications in late-stage disease. (see AGS Geriatrics Evaluation and Management: Appropriate Prescribing).		
PHYSICAL EXAMINATION	Comprehensive physical exam with focus on neurologic exam to characterize dementia subtype or exclude treatable conditions that cause or exacerbate cognitive impairment: Gait (Lewy body dementia, normal-pressure hydrocephalus) Motor function (vascular dementia) Reflexes (vascular dementia) Extrapyramidal signs: rigidity, tremor, bradykinesia (Lewy body dementia)		
DIAGNOSTIC TESTING	 Evaluate for potentially reversible causes of cognitive loss: Complete blood count Comprehensive metabolic panel Vitamin B₁₂/folate Thyroid-stimulating hormone If indicated, consider serologic tests for syphilis and HIV. Neuroimaging, such as brain CT or MRI without contrast or FDG PET, may be useful if: Onset <65 years old Symptoms begin suddenly or progress rapidly Evidence of focal or asymmetrical neurologic deficits Clinical picture suggests normal-pressure hydrocephalus (eg, onset has occurred within 1 year, gait disorder or unexplained incontinence is present) History of recent fall or other head trauma 		
MANAGEMENT STRATEGIES	Evaluate for persistence of cognitive dysfunction after discontinuing or decreasing dosages of medications that affect cognition, treating depression and delirium, and treating potentially reversible causes of cognitive loss (see "Diagnostic Testing" above). Primary treatment goals for patients with dementia are to enhance quality of life and maximize functional performance by improving or stabilizing cognition, mood, and behavior. Both to the extent possible, nonpharmacologic and pharmacologic treatments are available. Provide patient and/or caregiver with information regarding: Dementia diagnosis, prognosis, and associated behavioral symptoms Environmental modifications and communication strategies Home safety (fall prevention, firearm safety, wandering prevention, etc) Medication management Adult day care and respite stays Support groups and classes for caregivers Advance care planning and advance directives, including establishing a surrogate decision-maker Examples of resources for education and support Alzheimer's Association (www.alz.org) Family Caregiver Alliance (www.caregiver.org) Alzheimer's Disease Education & Referral Center (www.nia.nih.gov/Alzheimers) Considerations before initiation of treatment with cholinesterase inhibitors (Chis): Alzheimer disease Studies have shown modest clinical benefits for short- and long-term treatment with Chls. Treatment for 6 months with Chls improved cognitive function on average only 2.7 points on the 70-point Alzheimer's Disease Assessment Cognitive Subscale, and showed small improvement on measures of ADIs and behavior. Memantine is FDA approved for moderate-severe Alzheimer disease as a single agent or in conjunction with Chl. Vascular dementia Widespread treatment with Chls is not recommended because of limited cognitive benefits. Discussion of initiation of stroke prophylaxis medications is recommended for patients with mild to moderate vascular dementia, because vascular risk factors can worsen cognitive benefits. Discussion of initiation of stroke		
REFERRAL	 Refer patients with newly diagnosed dementia for a driving assessment or advise them not to drive, depending on severity of impairment. Full neuropsychologic testing may be needed to accurately define the character and severity of the cognitive deficits, especially in atypical cases or when presentation may be confounded by a high level of education or subtle changes. 		

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