Age-Friendly Healthcare: Mentation

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Disclosures & Acknowledgments

- No financial disclosures
- The views and opinions in this presentation are those of the presenter and they do not necessarily reflect, and should not be taken as, official policy of the U.S. Department of Veterans Affairs or the University of Washington.
- Thanks to my colleague and co-developer of the Mentation Module of the GRECC Allied Health Geriatrics Core Curriculum, Beth Hogans, MD/PhD, of the VA Maryland HCS GRECC and Johns Hopkins School of Medicine
- I live and work on the traditional land of the Duwamish and Coast Salish peoples and honor it with gratitude for the privilege it affords me.





Northwest Geriatrics Region VISN 20

WA

ID

OR

MT

WY

Aging Population by State: Number of Persons 65 and over

State		
otato	Census 2010	Census 2020 v Projection 2019
AK	54,938	95,876 v 91,588
ID	194,668	305,994 v 290,670
MT	146,742	213,392 v 206,437
OR	533,533	789,527 v 766,080
WA	827,677	1,247,874 v 1,209,723
WY	70,090	103,776 v 99,179
Data Source: US	S Census Bureau	

How to provide care for this increasing and changing demographic?

- Geriatric specialists
- Primary Care Providers (PCPs)
- PACT Patient Aligned Care Team
- Given the significant consequences of declines in mentation there needs to be a paradigm shift such that the top disorders affecting mentation are a regular part of the workup and diagnostic differential for aging patients
- Healthcare <u>team</u> approach is best



What Matters

Know and align care with each older adult's specific health outcome goals and care preferences including, but not limited to, end-of-life care, and across settings of care.

Medication

If medication is necessary, use Age-Friendly medication that does not interfere with What Matters to the older adult, Mobility, or Mentation across settings of care.

Mentation

Prevent, identify, treat, and manage dementia, depression, and delirium across settings of care.

Mobility

Ensure that older adults move safely every day in order to maintain function and do What Matters.



Mentation in Aging

Describe mentation

Verbalize what dementia is & what it is not Explain the importance of mental health, especially depression in aging

Identify and prevent delirium - key features

Mentation

- Mentation comprises both cognitive function and mental health
 - Think about the 3Ds of Aging
- What are normative "typical" changes in mentation one might see in aging?
- What are warning signs "red flags" for changes in mood or thinking?
- How does mentation support independence in daily function for older adults?



"Typical" Cognitive Aging

- Autobiographical memory
- Recall of well-learned information
- Procedural memory
- Emotional processing
- \Downarrow Encoding of new memories
- Slower to learn new tasks, need more repetition
 ↓ Working memory/multi-tasking
- Can't juggle as many things at once
 ↓ Processing speed
 - Slower to respond to novel situations

More typical cognitive aging



Not all changes are typical

Cognitive Decline

Normal Aging Everyone experiences slight cognitive changes during aging



Knowledge check

Identify whether the following are: A) likely <u>age-related</u> or B) are clear <u>red flags</u>

- ___ Can't recall major parts of own life story, e.g., duration of military service
- ____ Learning new tasks more slowly, e.g., how to navigate new smart phone
- ____ Can't remember well-learned facts, e.g., U.S. presidents
- ____ Has trouble with multi-tasking, e.g., talking while performing arithmetic
- ____ Can't describe steps in a common task, e.g., how to mail a letter
 - ___ Responds a bit slower to new information, e.g., needs time to process details
- ____ Loses track of the emotional tone of an interaction, e.g., seems to detach quickly

Depression

Includes decreased mood, interest, pleasure, and altered sleep, appetite, and cognition.

<u>Anxiety</u>

Excessive worry and anxiety, panic, physiological stress responses, impairments in sleep, concentration, and function all possible.

Post Traumatic Stress Disorder (PTSD)

Emotional numbing, intrusive memories and thoughts, confusion, memory loss, negative appraisals of self and others, feelings of estrangement.

Substance Use Disorders (SUD)

A complex chronic condition associated with cravings and uncontrolled substance use despite negative consequences.



Mental Health

Mentation: impacts on functional independence

Cognition is essential for:

- Attending healthcare appointments
- Adhering to treatment plans
- Managing household needs
- Paying bills
- Navigating transportation

Mental Health is essential for:

- Attending to self-care and health
- Making good choices
- Maintaining positive relationships
- Anticipating future needs
- Avoiding conflict and legal problems

What you might hear in clinic

- I can't focus
- She's not interested in her usual activities
- I can't come up with the word I want
- My energy is low
- My husband's "selective attention" is worse he doesnot be pression?
- My short-term memory is shot
- I couldn't find my car in the parking lot
- You didn't tell me to increase my atenolol and stop taking the provide the stop of the st

Could it be . . .

Delirium?

Dementia Is . . .



Daily Living Skills

a decline in some aspect of cognitive function and/or behavior

- ✓ Significant
 - functional consequences
- Chronic
 - insidious onset and progressive course
- Loss
 - new impairments (not lifelong)
- Structural Damage
 - neurons die

... What Dementia Is Not

- Delirium acute onset, attention and concentration problems
- Depression apathy, distraction; apparent cognitive deficits, but none during testing
- Sensory deficits or communication problems
- Normal aging

Types of Dementia



- Vascular Dementia
- Lewy Body Dementia
- Parkinson's Disease with Dementia
- **Given States Frontotemporal Dementia**

Prevalent Causes of Dementia in Older Adults

Dementia

Neurodegenerative disease

Vascular Dementia Cerebrovascular disease

Alzheimer's Dementia Alzheimer's disease

> Lewy Body Dementia Lewy Body disease

Causes that Mimic Dementia



*Treatment may improve, but not fully reverse, symptoms

What Delirium Is . . .

aka "Toxic Metabolic Encephalopathy" or "Acute Confusional State" A <u>medical</u> condition:

- Rapid onset
- Deficits in attention and concentration
- Waxing and waning mental status
- Infections, medications, metabolic abnormalities are the most common causes
- ✓ Mental status changes often precede objective signs of illness
- Under-recognized (Inouye, Westendorp, and Saczynski, Lancet, 2014)

... What Delirium Is Not

- Insignificant increased mortality when followed over 6-24 months McCusker, et al, JAMA, 2002; McCusker, et al, JAGS, 2014; Witlox, et al, JAMA, 2010; Tsai, et al, Intl J Psych Med, 2013, and many more.
- Dementia slower onset, slower decline, more subtle fluctuation
- Rapidly resolving, even when the cause is corrected
- Normal aging

Risk Factors for Delirium

- Hospitalization delirium affects up to 40%
- Review & Meta-analysis (Ahmed, Leurent, & Sampson, 2014)
 - Pooled analysis risk factors: dementia, illness severity, visual impairment, urinary catheterization, low albumin, and length of hospital stay
- Risk factors in a hip fracture hospital sample (Mosk, et al, 2017)
 - n=566, 35% with delirium
 - Age, dementia, hx of delirium, overall health rating, preoperative hx of institutionalization, functional dependency, amount of blood transfusion, low Hb

Recognizing Delirium

- ✓ Confusion that develops over days or weeks
- Trouble with attention, focus, & concentration
- ✓ Waxing and waning
- ✓ Fluctuating sleep disturbances
- ✓ Hyperactive (agitated) <u>or</u> hypoactive (sedated)
- Erratic, uncharacteristic, inappropriate behavior
- Hallucinations (especially visual), paranoia
- Somnolence

Emergency department: Patients will present with acute confusion and disorientation, detailed initial work up with therapy targeted to identified derangements, may require one-on-one care.

PACU: Patients recovering from surgery may develop acute delirium, monitoring and assessment of oxygen delivery and other major metabolic factors. May require transfer to unit with closer monitoring that is typical.

Med-Surg unit: Patient will require closer supervision and monitoring, testing.

Skilled nursing care/CLC: Patient will require closer supervision and monitoring, testing.

Outpatient clinic: Patient will require transfer to emergency department for evaluation.

What Depression is . . .

A syndrome of psychological and bodily symptoms

- Low mood or anhedonia (lack of pleasure)
- Problems with sleep (too little or too much)
- Problems with appetite (too high or too low)
- Trouble concentrating
- Decreased interests
- Feelings of guilt or having done something wrong
- Low energy
- Slowed movements
- Suicidal thoughts
- Unreal experiences: "my mind playing tricks on me" (hearing voices/feeling paranoid)

... What Depression Is Not

- A bad day, week, or month
- Grief
- A natural reaction to medical illness or loss
- A cause of dementia "pseudodementia"
- Untreatable in older adults

Normative mental health in aging:

Grief vs. acceptance

Grouchiness vs. good spirits

Adjustment to medical illness or loss vs. 'rebellion'

New interests vs. persistence of personality

Positive self-appraisal and perspective-taking

Recognizing Depression

- ✓ Often presents as nonspecific physical symptoms
 - Fatigue
 - Pain
 - GI problems
- Older patients might be less likely than younger to admit to being "depressed"
- Depression is stigmatized
- Patients often more willing to endorse mental health symptoms in writing than in person

Depression in Older Adults

- As many as 10% of adults age 65+ seen in primary care settings have clinically significant depression^{1,2}
 - However, <u>only ~10% of older adults with depression receive treatment³</u>
- Behavioral Activation: meta-analysis of 7 RCTs showed moderateintensity exercise reduced depressive symptoms⁴
- Younger and older adults respond equally well to treatment: psychotherapy and/or pharmacotherapy⁵
 - Consider medical comorbidity for best treatment options
 - Pharmacotherapy is not always advised
 - Psychotherapy caveat for certain populations
 - Unützer, N Engl J Med 2007. 2. Lyness, et al. J Gen Intern Med 1999; 3. Klap, et al. Am J Geriatr Psychiatry 2003.
 Bridle, et al. Br J Psychiatry 2012. 5. Taylor, WD, N Engl J Med 2014. Clinical practice. Depression in the elderly.



Antidepressants Commonly Used to Treat Late-Life Depression

Taylor WD. N Engl J Med 2014;371:1228-1236.



		Table 5. Antidepressa	nts Commonly Used	to Treat Late-Life Depress	ion."			
		Class and Agent	Initial Daily Dose	Therapeutic Daily Dose	Side E	Effects	t Pare	
		First-line therapy			Common	Schous but	t Narc	
	k	SSRIs			Nausea, diarrhea, headaches, sexual dysfunction, increased risk of falls	Abnormal bleeding altered platelet f hyponatremia	(due to function),	
n	oniy	Sertraline	25–50 mg	50–100 mg, to a maximum of 200 mg	1			
	Table 3. Antidepressants Co	ommonly Used	to Treat Lat	e-Life Depression	1.*			
	Class and Agent	Initial Daily Dose	Therapeut	ic Daily Dose		Side Ef	ffects	
					Common		Se	erious but Rare
	First-line therapy							
	SSRIs				Nausea, diarrhea, head sexual dysfunction, risk of falls	laches, increased	Abnormal altered hypona	bleeding (due to I platelet function), atremia
	Sertraline	25–50 mg	50–100 mg, of 2	to a maximum 00 mg				
	Escitalopram	10 mg	10-	20 mg				
		Second-generation ar psychotic ager	nti- nts§					
	Pocket Guide fr "This guide has b	,∆r`piµr,ızo'e	2-5 mg	5 ing, to a maximum of 15 mg	Sedation, masse, beadache, weight gain, increased choles- terol levels	Tardive dyskinesia, tic malignant sy creased strcke to patients with de ed psychosis¶	the neurolep- indrome, in- risk among ementia-relat	
	clinical decision-	This table does not p serotonin-reuptake in controlled tria's ^{12,1} ; Serotonin-notepinepi therapy. Du'oxotine u	rovide a comprehen hibitors (SSRIs) are such data are lackin hrine reuptake inhib se is supported by a	sive list of antidepressant typically used as first-line g tor escitatoprant but it is itors (SNRIs) and agents v large randomized, contro	drugs (rather, one to two examples pe therapy. Use of sertraline is supported accrumently used (wing to a generally vith novel pharmacologic mechanism) led trial ⁴⁴ data supporting venalafaxin	er class) or of side e d by data from large y tavoratile adversige s are often used as s te, bupropion, and m	ffects. Selective randomized, avent profile sccond-line nirtazapine are	orm ons
	concerning the p quality of care. It	from smaller control chotic agents should with recommendation third edition.	ed trials or open-lab be used only for per is in the American F	a' trials. O wing to their sid sons who do not have a re spicial tric Association Pra-	e-effect profiles, 'ricycit' antidepressa sponse to other treatment options. Th tice Guideline for the Treatment of Poti- er than 60 mg per day confer an additi-	onts and second-gen hese guidelines are itents with Major Dep onal benefit	concordant concordant cressive Disorder,	y and
	Inappropriate M	Second generation ar Second-generation ar An increased risk of st older patients is not l	age miser, mere is n plasma steady-state ntipsychotic agents s troke is specifically re known.	clevels of 30 (o 120 ng per shouid be used for antidep eported for older patients w	milliliter. ressant augmentation, not as the sole ith dementia-related psychosis. Wheth	e therapy for depress her the same risk exte	sion. ends to other	

Depression in Older Adults

- Monitor patients with increased medical morbidity as rates of depression are as high as 37% post critical care hospitalization¹
- Cognitive impairment can be predictive of a less robust/poor response to antidepressants^{2,3}
- Monitor for cognitive decline because depression in later life could be a red flag for preclinical dementia⁴
- Suicide rates: higher in the elderly
 - Also higher in Veterans, males, and White/Native American peoples*

Girard, et al. Lancet, 2014. 2. Alexopoulus, et al. Biol Psychiatry, 2005. 3. Sheline, et al. Arch Gen Psych, 2010.
 Singh-Manoux, et al. *JAMA Psychiatry* 2017.

Dementia, Delirium, and Depression

	Common Features	Hallmarks
Dementia	Subjective confusion Difficulty performing tasks	Problems with memory plus problems with speech, actions, recognition, or executive functioning Chronic and progressive, slow onset Functional decline
Delirium	"Not right" on interview	Trouble with attention and concentration Rapid onset; waxing and waning Due to a medical cause
Depression	Loved ones are worried	Decreased concentration and interest Sensorium is clear

Used with permission from S. Thielke

Overlap in Syndromes

- Delirium superimposed on dementia (DSD) = estimate ranges 22-58% (Fick, et al, 2002, Mosk, et al, 2017; Morandi, et al, 2019)
- Older hospitalized patients, n=459, age 70+ (Givens, Jones, & Inouye, 2009)
 - Delirium and Depression 5%
 - Delirium alone 8.5%
 - Depression alone 26.3%
 - Overlap syndrome = higher odds of 1 month functional decline, and NH placement or death at 1 year
- Rates of depression in dementia are reported to range from 20-86% (Wright & Persad, 2007; Tsuno & Homma, 2009)

Case - Joseph



- 66 year old male Veteran
- Divorced x 2 years from 2nd wife (<5 year marriage)
- New to primary care clinic; moved here to be closer to daughter
- Living independently in an apartment
- Daughter's concern is: "He just sits around all day and forgets what I tell him"
- PMHx: diabetes, HTN historically good control

Case - Joseph

- 66 year old male Veteran, living in an apt
- Divorced x 2 years from 2nd wife (<5 year marriage)
- New to clinic; moved here to be closer to daughter



- Daughter's concern is: "He just sits around all day and forgets what I tell him"
- PMHx: diabetes, HTN they reported good control, but current BP and glucose are out of range
 - Is he taking his medications/insulin as prescribed?
- He says he misses his wife and doesn't have friends
- Doesn't seem cognitively sharp; disengaged at visit

Next steps?

Initiate Work Up

Identification / Screening

What are some available tools?

Delirium, Dementia, and Depression

3Ds: Delirium-Dementia-Depression Assessment Guide

This pocket card provides tools to help identify three common geriatric syndromes that can affect thinking abilities: delirium, dementia, and depression. It is intended to be used as part of a comprehensive assessment and the data entered into the electronic health record. Asymptomatic screening is **NOT** recommended.

Suggested Approach to Assessment

- 1. Conduct a general health assessment, including physical exam and labs. E.g., CBC, chem 7, liver panel, calcium, TSH, B12, HIV w/verbal consent documented.
- 2. Rule out delirium for all patients with cognitive symptoms.
- 3. Conduct assessment for suicidal thoughts per VA guidelines.
- Are unusual /atypical symptoms present? E.g., focal neurological symptoms, acute mental status changes. Consider neuroimaging and/or refer for specialty care, such as neuropsychology, psychiatry and/or neurology.

Contact Julie Moorer, RN, to order copies: Julie. Moorer@va.gov



DELIRIUM

- Delirium is a *medical* condition that causes a temporary problem with mental function.
- Delirium occurs commonly in sick older adults, in hospital settings, and in those with pre-existing cognitive problems.
- Delirium is a *medical emergency*; often the presenting symptom of an underlying illness. Early diagnosis/treatment of the underlying condition offers the best chance of recovery.
- Marked by problems with attention and concentration, and shows a waxing and waning course (patients can seem normal at times).
- Consider delirium and work up potential causes of delirium in ALL patients with mental status changes.
- Most common medical causes: metabolic disorders, infections, medications, hypoxemia, dehydration
- Most common medication causes: opioids, anticholinergics, sedative-hypnotics
- Delirium is also known as Acute Brain Failure; Toxic-Metabolic Encephalopathy; or Acute Confusional State.

Delirium Assessment Tool Confusion Assessment Method (CAM) Diagnostic Algorithm Delirium is diagnosed with the presence of Features 1 and 2, and either Feature 3 or 4.

Feature 1: Acute Onset and Fluctuating Course Usually obtained from family member or caregiver: rapid change from baseline, and fluctuating severity during the day.

Feature 2: Inattention

Trouble with attention, being distractible or having difficulty keeping track of what was said. **Example**: Recite the months of the year backwards.

Feature 3: Disorganized Thinking Rambling or irrelevant conversation, unclear or illogical flow of ideas or unpredictable switching from subject to subject.

Feature 4: Altered Level of Consciousness Anything other than alert on scale of Normal [alert], Vigilant [hyperalert], Lethargic [drowsy, easily aroused], Stupor [difficult to arouse] or Coma [unarousable].

Inouye SK, et al Ann Intern Med. 1990; 113: 941-948. Confusion Assessment Method: Training Manual and Coding Guide. © 2003 Hospital Elder Life Program, LLC. Reprinted with permission.

Delirium

Delirium Reference Guide



Delirium is a common and serious condition involving a disturbance in attention and awareness which develops over a short period of time. Delirium can lead to increased risk of mortality and morbidity. Its identification and swift treatment are critical. This guide is meant to provide information and tools for VA Providers as part of a comprehensive assessment.

IDENTIFY DELIBIUM

Attention/mental status change - inattention, unable to focus, confusion, disorientation

Rapid onset/course - acute onset (hours to days) and fluctuating course (waxing and waning)

Behavioral disturbance - may show restlessness, agitation, pulling/picking at clothes or lines

Disorganized thinking - rambling or irrelevant speech, illogical thoughts, paranoia, hallucinations Change in consciousness - may be hyperalert, jittery

or drowsy, difficult to arouse Delirium presentation - Hypoactive (drowsy, slowed movements, clouded thinking); <u>Hyperactive</u> (agitated, wandering, refusing care); or <u>Mixed</u> (features of both, fluctures of both, fluctuations between both)



MANAGEMENT AND PREVENTION OF DELIRIUM - Specific Strategies Delirium Ref Delirium is a common and se MANAGEMENT AND PREVENTION OF DELIRIUM – General Approaches ENHANCE DAYTIME ACTIVITIES disturbance in attention ar Physical Strategies – for home and/or institutional settings short period of time. Deliv "CAN DO" Approach mortality and morbidity. **C**ognitive Stimulation critical. This guide is me-Avoid Toxic medications and iatrogenic events VA Providers as part of Engage and activate range of motion PT/OT Nutrition and Hydration Don glasses and hearing aids Reduce use of Foley catheter / IV / restraints Out of bed - mobilize, mobilize, mobilize Attention/mental "TADA" Approach Ensure adequate food and fluids (supplement, if necessary) Prevent dehydration TOLERATE, ANTICIPATE, DON'T AGITATE Monitor I/O - address constipation, fluid retention MANAGEMENT AND PREVENTION OF DELIRIUM – Specific Strategies MODIFY ENVIRONMENT **Cognitive Strategies** Orient to calendar or discuss current events Orient and Re-orient (clocks and calendars) Play games (sorting, card or board games) Ensure adequate lighting for the task at hand Promote normal sleep Create music, arts & crafts Encourage familiar faces, family members, photographs, sitters Read books, solve puzzles and word searches Reduce bothersome noise and dim lights when appropriate The Delirium Reference Guide is a product of the GRECC National Aging and Cognition Education (ACE) Workgroup. Authors: Kresevic, D. , Chen, PJ, Fernandez, C., Echt, K., Use back massage and therapeutic touch Gould, C., Moorer, J., Cooley, S., and Trittschuh, E.H. Version date: May 2022 Play music or relaxation tapes To order copies, please contact Julie Moorer, RN: Julie.moorer@va.gov Acknowledgment: Thanks to the VISN 10 GRECC Cleveland VA Interdisciplinary Delirium Correct sensory deficits Resource Team Manual (Kresevic, Smilovich, Chen, Heath, Jennings). AGS 2015. Utilize portable hearing amplifiers, glasses (magnifying) **U.S. Department of Veterans Affairs** Supply noise-canceling headphones to reduce distractions Veterans Health Administration Manage pain with an emphasis on non-pharmacological approaches eriatric Research, Education, and Clinical Centers

IDE

focus, confusion,

Rapid onset/cou

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Score	Description
+4 Combative	Violent, danger to staff
+3 Very agitated	Very distractible, pulls/removes tubes, aggressive, fighting environment
+2 Agitated	Resists care or uncooperative, frequent non-purposeful movement
+1 Restless	Pays attention most of the time; anxious but cooperative, movements not aggressive/vigorous
0 Alert and calm	Makes eye contact; responds appropriately to calling their name
-1 Drowsy	Not fully alert, sustained awakening to voice, (maintains eye contact for >10 secs.)
-2 Light sedation	Briefly awakens to voice (eye opening and contact <10 secs.)
-3 Moderate sedation	Movements or eye opening to voice (but NO eye opening/contact)
-4 Deep sedation	Can't stay awake; no response to voice, but has movement/eye opening to physical stimulation
-5 Unarousable	No response to voice or physical stimulation



Modified Richmond Agitation & Sedation Scale (mRASS)

The RASS is a tool developed to assess the level of sedation or agitation in the intensive care unit (ICU). The mRASS is a modified version to be used in non-ICU settings.

The mRASS is a VA-developed instrument. See Chester J.G., Beth Harrington M., Rudolph J.L.:Br J Hosp Med 2012; 7: pp. 450-453.

Working Up Delirium

- Use collateral sources of information
- Consider the whole clinical picture broad differential

I nfections **D** eficiencies W ithdrawal **E** ndocrinopathies A cute metabolic A cute vascular **T** rauma T oxins or drugs Joseph's work C NS pathology **H** eavy metals up was **H** ypoxia negative



You do not need to be a mental health professional to ask about symptoms of depression

- Use recommended tools to guide you and have a plan for how to triage when you get a positive
- Screening is covered by Medicare Part B

Depression

- PHQ-2 >> PHQ-9: well-validated, free and common
- Geriatric Depression Scale (GDS): 30-item or 15item
- VHA adds the Columbia-Suicide Severity Rating Scale (C-SSRS)
 - https://www.hrsa.gov/behavioral-health/columbiasuicide-severity-rating-scale-c-ssrs

Patient Health Questionnaire: PHQ-2

A quick, self-report screen which may be appropriate for your setting

"Over the past two weeks, how often have you been bothered by these problems?"

	Not at all	Several days	> Half of the days	Nearly every day
1. Little or no interest or pleasure in doing things?	0	1	2	3
2. Feeling down, depressed, or hopeless?	0	1	2	3
A score of 3 or greater merits completing	the PH	-IQ-9, ne	ext slide.	

Joseph's work up was positive

PHQ-9

Questions use PHQ-2 0–3 scale

Depression likely if total score is >10

Suicide risk evaluation recommended if total ccore is >10 and/or response to question #9 is >0 1. Little or no interest or pleasure in doing things?

2. Feeling down, depressed, or hopeless?

3. Trouble falling asleep, staying asleep, or sleeping too much?

4. Feeling tired or having little energy?

5. Poor appetite or overeating?

6. Feeling bad about yourself, feeling that you are a failure, or feeling that you have let yourself or your family down?

7. Trouble concentrating on things such as reading the newspaper or watching television?

8. Moving or speaking so slowly that others could have noticed, or being so fidgety and restless that you have been moving around a lot more than usual?

9. Thinking that you would be better off dead or that you want to hurt yourself in some way?

C-SSRS

Joseph: denied current SI or past SI

SUICIDAL IDEATION				
Ask questions 1 and 2. If both are negative, proceed to "Suicidal Behavior" section. If the answer to question 2 is "yes", ask questions 3, 4 and 5. If the answer to question 1 and/or 2 is "yes", complete "Intensity of Ideation" section below.	Lifetim He/St Most S	e: Time he Felt Suicidal	Pas	st 1 nth
1. Wish to be Dead Subject endorses thoughts about a wish to be dead or not alive anymore, or wish to fall asleep and not wake up. Have you wished you were dead or wished you could go to sleep and not wake up?	Yes	No	Yes	No
If yes, describe:				
2. Non-Specific Active Suicidal Thoughts General non-specific thoughts of wanting to end one's life/commit suicide (e.g., "I've thought about killing myself") without thoughts of ways to kill oneself/associated methods, intent, or plan during the assessment period. Have you actually had any thoughts of killing yourself?	Yes	No	Yes	No
If yes, describe:				
3. Active Suicidal Ideation with Any Methods (Not Plan) without Intent to Act Subject endorses thoughts of suicide and has thought of at least one method during the assessment period. This is different than a specific plan with time, place or method details worked out (e.g., thought of method to kill self but not a specific plan). Includes person who would say, "I thought about taking an overdose but I never made a specific plan as to when, where or how I would actually do itand I would never go through with it." Have you been thinking about how you might do this?	Yes	No	Yes	No
If yes, describe:				
 Active Suicidal Ideation with Some Intent to Act, without Specific Plan Active suicidal thoughts of killing oneself and subject reports having some intent to act on such thoughts, as opposed to "I have the thoughts but I definitely will not do anything about them." Have you had these thoughts and had some intention of acting on them? 	Yes	No	Yes	No
 5. Active Suicidal Ideation with Specific Plan and Intent Thoughts of killing oneself with details of plan fully or partially worked out and subject has some intent to carry it out. Have you started to work out or worked out the details of how to kill yourself? Do you intend to carry out this plan? If yes, describe: 	Yes	No	Yes	
INTENSITY OF IDEATION				
The following features should be rated with respect to the most severe type of ideation (i.e., 1-5 from above, with 1 being the least severe and 5 being the most severe). Ask about time he/she was feeling the most suicidal. Lifetime - Most Severe Ideation:	M	ost	Mo	ost
Recent - Most Severe Ideation: Type # (1-5) Description of Ideation				

Clinicians may notice:

- Is Your Patient.....
- Inattentive to appearance or unkempt, inappropriately dressed for weather or disheveled?
- A "poor historian" or forgetful?
- Does your patient.....
- Fail to keep appointments, or appear on the wrong day or wrong time for an appointment?
- Have unexplained weight loss, "failure to thrive" or vague symptoms e.g., dizziness, weakness?
- Repeatedly and apparently unintentionally fail to follow directions e.g., not following through with medication changes?
- Defer to a caregiver or family member to answer questions?

Patients or caregivers may report:

- Asking the same questions over and over again
- Becoming lost in familiar places
- Not being able to follow directions
- Getting very confused about time, people & places
- Problems with self-care, nutrition, bathing or safety

Dementia

Signs/symptoms a clinician, caregiver, or patient may notice

Should prompt provider to evaluate cognition

Cognitive screen: Mini-Cog

A Screening Tool; does not diagnose dementia

1. Get the patient's attention then say, *I am going to say three words that I want you to remember now and later.*

Unscored

The words are: Banana, Sunrise ,Chair. Please say them for me now. Give the patient 3 tries to repeat the words. If unable after 3 tries, go to next item.

2. Say all the following phrases in order, *Please draw a clock in the space below. Start by drawing a large circle.* When done, say, *Put all the numbers in the circle.* When done, say, *Now set the hands to show 11:10 (10 past 11).*

If subject has not finished clock drawing in 3 minutes, discontinue and ask for recall items.

3. What were the three words I asked you to remember?

2 pts for a clock without errors, 0 for <u>any</u> error

1 pt per word (max 3)

<u>Scoring:</u> 0-5 possible 0-2 = possible impairment 3-5 = suggests no impairment

Mini-Cog TM For clinical and teaching use. May not be modified or used for research without permission of the author (soob@uw.edu). All rights reserved. © S Borson

Mini-Cog Clock

Normal clock is 2 points; abnormal clock is 0 points.

- A normal clock has all of the following elements: all numbers 1-12, each only once, present in the correct order and direction (clockwise).
- Two hands are present, one pointing to 11 and one pointing to 2.
- Any clock missing any of these elements is scored abnormal.
- Refusal to draw a clock is scored abnormal.



Brief Cognitive Tests

- SLUMS or MoCA are good
 30pt examples
- Blessed BOMC
- M-ACE or ACE-III (Addenbrooke, US versions)



Montreal Cognitive Assessment (MoCA): http://www.mocatest.org/

- More sensitive than MMSE
- WELL-RESEARCHED

http://www.mocatest.org/references.asp

- Multiple English versions and >25 other languages
- Blind/Telephone version
- Telemedicine version
- Training/certification required

	MOCA SCO	ORES	
	Normal Controls (NC)	Mild Cognitive Impairment (MCI)	Alzheimer Disease (AD)
Number of subjects	90	94	93
MoCA average score	27.4	22.1	16.2
		1	

3.1

4.8

MoCA score range	25.2 – 29.6	19.0 – 25.2	21.0 – 11.4
Suggested cut-off score	≥ 26	<26	<26ψ
¥ Although the average MoCA score between them. The suggested MoCA and MCI is mostly dependent on the a specific score on the MoCA test.	for the AD group is much A cut-off score is thus the presence of associated fur	lower than the MCI grou same for both. The dist nctional impairment and	p, there is over lap Inction between AD d not on

2.2

MoCA standard deviation

Sensitivity and Specificity (%) MoCA and MMSE					
Cut-off	≥26	< 26	< 26		
Group (n)	Normal controls (90)	Mild Cognitive Impairment (94)	Alzheimer Disease (93)		
MoCA	87	90	100		
MMSE	100	18	78		

St. Louis University Mental Status examination (SLUMS)

Far from perfect, but perfectly acceptable for many populations

- Use the standard instructions
- Good news/Bad news situation:
 - It's free (yay) and no training required (sort of yay)
 - Spanish version (PR Spanish) and Canadian version (province and Toronto)
 - Small limited research sample and very little f/u research
 - Bias: cultural and SES, etc
 - No official adaptation for telephone or telemedicine
 - Telephone: total score = 26
 - Telemedicine: easily adaptable

Mama	100
Is the n	Age
to the p	
/1	1. What day of the week is it?
/1	1 2. What is the year?
/1	1 3. What state are we in?
	 Please remember these five objects. I will ask you what they are later. Apple Pen Tie House Car
_/3	 5. You have \$100 and you go to the store and buy a dozen apples for \$3 and a tricycle for \$20. How much did you spend? How much do you have left?
_/3	6. Please name as many animals as you can in one minute. (1) 0-4 animals (1) 5-9 animals (2) 10-14 animals (3) 15+ animals
/5	7. What were the five objects I asked you to remember? 1 point for each one correct.
_/2	 8. I am going to give you a series of numbers and I would like you to give them to me backwards. For example, if I say 42, you would say 24. 8. T 1 648 8537
	9. This is a clock face. Please put in the hour markers and the time at tan minutes to alevan o'clock
	2 Hour markers okay
_/4	2 Time correct 1 10. Please place an X in the triangle.
12	
-'2	which of the above ligures is largest?
/8	 11. I aim going to teri you a story. Prease instent circulary because anterwartus, I m going to ask you some questions about it. Jill was a very successful stockbroker. She made a lot of money on the stock market. She then met Jack, a devastatingly handsome man. She married him and had three children. They lived in Chicago. She then stopped work and stayed at home to bring up her children. When they wer teenagers, she went back to work. She and Jack lived happily ever after. 2 What was the female's name? 2 What work did she do? 2 What work did she do?
_	when the site go back to work:
	TOTAL SCORE
	SCORING
Hi 27	GH SCHOOL EDUCATION LESS THAN HIGH SCHOOL EDUCATION -30 NORMAL 25-30
21	-26 Mild Neurocognitive Disorder

Utility of brief cognitive tests?

- To obtain a quick sense of global function
- To identify cognitive decline early
- Is there any reason to question whether the patient has decision-making capacity?

Cognitive Screening – Meaning

- Interpretation and appropriate populations?
 - Limited detection for individuals who are outside the average range (either higher or lower)
 - Learning disability or low education?
 - Hearing or vision problems?
 - Limited hand function?
- Poor as stand-alone measures
 - Recommend informant/collateral input
 - Consider other risk factors and context

Joseph's MOCA was 25

Functional Activities Questionnaire

- 1. Writing checks, paying bills, balancing checkbook
- 2. Assembling tax records, business affairs or papers
- 3. Shopping alone for clothes, household goods, groceries
- 4. Playing a game of skill, working on a hobby
- 5. Heating water, making cup of coffee, turning off stove
- 6. Preparing a balanced meal
- 7. Keeping track of current events
- 8. Paying attention to, understanding, discussing a TV show, book or magazine
- 9. Remembering appointments, family occasions, holidays, medications
- 10. Traveling out of neighborhood, driving, taking buses



Scoring for each item: Dependent = **3** Requires assistance = Has difficulty, but does by self = **1** Normal = Never did (the activity), but could do now = Never did, but would have difficulty now =

Sum scores to obtain total, which ranges from 0-30. Cut-off point of **9** (dependent in 3+ activities) suggests impaired function/possible cognition dysfunction

Pfeffer, R.I., et al, 1982. *Measurement of functional activities in older adults in the community*. J Gerontology, 37(3), 323-329.

Dementia is a diagnosis of **EXCLUSION**





ADDITIONAL FACTORS CAN IMPACT THINKING AND DAILY FUNCTION:

Some common aging-related conditions can cause problems with thinking or memory. Many are treatable. Consider these as you evaluate cognitive concerns.

MENTAL HEALTH: Depression, stress and anxiety can interfere with thinking clearly.

SLEEP: Sleep apnea and chronic insomnia have significant impacts on daytime cognition.

VISION AND HEARING: Uncorrected sensory loss can interfere with optimal cognition.

PTSD: Symptoms can change during aging, with increased concerns for poor attention/memory.

SIDE EFFECTS: Some medications, alone or in combination, can cause confusion.

MEDICAL CONDITIONS: If poorly controlled can cause confusion.

LONELINESS/INACTIVITY: Lack of activity and loss of social connections can negatively affect the brain and its efficient function.

For more information and patient handouts: www.va.gov/geriatrics/brain

Healthy Brain Aging: Risk factors to manage and/or avoid

Medical Conditions

- High Blood Pressure
- High Cholesterol
- Type II Diabetes
- Sleep Apnea

Behavioral Factors

- Nutrition / Diet
- Alcohol / Tobacco
- Exercise
- Stress
- Socialization

3 Ds: Action Plan

Step 1 – Rule-Out

Identify potentially treatable causes of cognitive decline. [use frontline tools, history, physical exam, blood tests]

Step 2 – Monitor

Once these are ruled out and/or treated, monitor patients over time. [use frontline tools to catch signs early]



Step 3 – Indepth Evaluation

If problems persist and/or worsen, consider further evaluation.

[brain scan, additional labs, specialists]

Case - Joseph

- 66 year old male Veteran, living in an apt
- Divorced x 2 years from 2nd wife (<5 year marriage)
- New to clinic; moved here to be closer to daughter
- Daughter is concerned
- PMHx: diabetes, HTN historically good control, but now vitals and labs don't look so great
- Is he taking his medications/insulin as prescribed?
- Doesn't seem cognitively sharp; disengaged at visit
- Delirium ruled out
- Depression tx initiated
- Dementia is tbd



Dementia?

Delirium?

Depression?



Superman in his later years

Thank you

Questions?

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