

GERIATRIC MENTAL HEALTH AND MEDICATION TREATMENT

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GENERAL DISCLOSURES

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SPEAKER DISCLOSURES

✓ Any conflicts of interest?





OBJECTIVES

- 1. Differential diagnosis in the older patient with cognitive complaints.
- 2. Differential diagnosis of neuropsychiatric symptoms in the older patient (dementia vs. delirium vs. primary psychiatric disorder).
- 3. Treatment approach with older patients what are the differences to younger patients?



...A TYPICAL DAY AT THE (MY) OFFICE

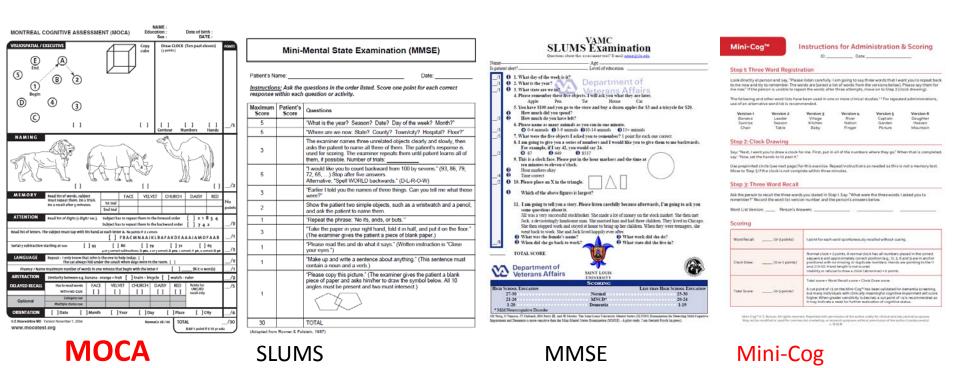
"Doc, my memory is going bad. I am worried I have Alzheimers."

What are the possibilities?

- Worried well
- Medical problem
- Psychiatric problem
- Dementia



STEP 1 – BRIEF COGNITIVE ASSESSMENT



- MOCA best short test (20 minutes), includes a visual-spatial component
- **Mini-cog** shortest test (3 minutes) for the hurried PCP, tells you "something is seriously wrong", but false negative for mild cognitive change



NAME: Date of birth: Education: MONTREAL COGNITIVE ASSESSMENT (MOCA) DATE: Sex : VISUOSPATIAL / EXECUTIVE Draw CLOCK (Ten past eleven) Сору cube End (5) (B) Begin (D) (c)[] Contour Numbers Hands NAMING MEMORY Read list of words, subject FACE VELVET CHURCH DAISY RED must repeat them. Do 2 trials. 1st trial Do a recall after 5 minutes. points 2nd trial ATTENTION Read list of digits (1 digit/ sec.). Subject has to repeat them in the forward order 21854 Subject has to repeat them in the backward order 1742 Read list of letters. The subject must tap with his hand at each letter A. No points if ≥ 2 errors FBACMNAAJKLBAFAKDEAAAJAMOFAAB [] 93 Serial 7 subtraction starting at 100 [] 86 [] 72 [] 65 [] 79 4 or 5 correct subtractions: 3 pts, 2 or 3 correct: 2 pts, 1 correct: 1 pt, ο correct: 0 pt LANGUAGE Repeat: I only know that John is the one to help today. [] The cat always hid under the couch when dogs were in the room. [] Fluency / Name maximum number of words in one minute that begin with the letter F (N ≥ 11 words) ABSTRACTION Similarity between e.g. banana - orange = fruit train - bicycle watch - ruler DELAYED RECALL Has to recall words FACE VELVET CHURCH DAISY RED Points for UNCUED WITH NO CUE [] [] [] recall only Category cue Optional Multiple choice cue 1 Date [] Year [] Place [] City ORIENTATION [] Month []Day

Normal≥ 26/30

TOTAL

Add 1 point if ≤ 12 vr edu

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www.mocatest.org

- Sum all subscores listed on the right-hand side. Add one point for an individual who has 12 years or fewer of formal education, for a possible maximum of 30 points.
- A final total score of 26 and above is considered normal.
- Ruth's rule: a good MOCA (20 min) gives you about 2/3 of the information of a 2-4 hour neuropsychological test battery.
- Information is not only contained in the absolute score, but also in the pattern of deficits.



65-year old man with a MOCA of 27...

"That's great, doc, but I am still not the man I used to be. My wife tells me I am forgetting things."





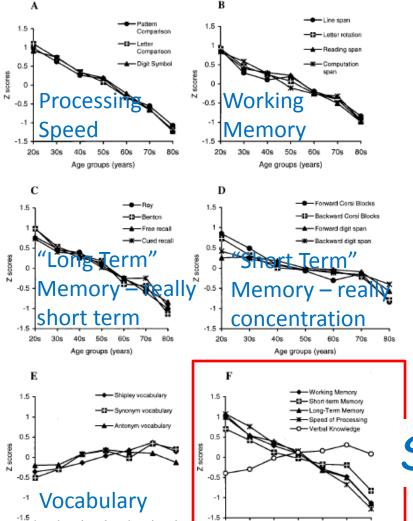


Figure 1. Life span performance measures. A: Speed of processing measures. B: Working memory measures (visuospatial and verbal). C: Long-term memory measures (visuospatial and verbal). D: Short-term memory measures (visuospatial and verbal). E: Knowledge-based verbal ability measures. F: A composite view of the aforementioned measures. Composite scores for each construct represent the z score of the average of all measures for that construct.

Age groups (years)

40s 50s 60s 70s

Age groups (years)

WHAT IS NORMAL AGING?

Most cognitive abilities decline linearly throughout the life span – two standard deviations of decline in processing speed and memory retrieval.

Summary

Models of Visuospatial and Verbal Memory Across the Adult Life Span, Park et al., Psychology and Aging 2002, Vol. 17, No. 2, 299–320

PRACTICAL IMPLICATIONS OF NORMAL AGE-RELATED COGNITIVE CHANGE:

- As (usually high-functioning) middle-aged patients become aware of age-related change, they may present with anxiety, depression, and concerns about dementia.
- Age-related cognitive change leads to a reduction in cognitive reserve, which makes patients vulnerable to the cognitive impact of other medical or psychiatric conditions.

- The majority of children with ADHD continue to have ADHD as adults.
- Some middle aged patients become symptomatic when they can no longer multitask rapidly.
- Patient present with depression, anxiety, feeling overwhelmed.

AGING + ADULT ADHD



We think of ADHD as a disease of children, but sometimes patients are first diagnosed in their 60s or 70s.



AGING + DEPRESSION

- Higher vulnerability to the cognitive impairment associated with depression, hence depressive "pseudodementia" – BUT: unless the patient is catatonically depressed, depression alone accounts for <u>no more than</u>
 <u>~4 points loss on the MOCA</u>.
- "Scattered" deficits on an almost normal MOCA.



ABNORMAL MOCA...WHAT NOW?

- Rule out medical problems with "memory labs": complete metabolic panel, CBC, B12, folate, TSH, HIV, syphilis.
- Review the timeline of change: very rapid deterioration suggests delirium, search for a an underlying cause (e.g. UA).
- Review medications, stop anticholinergic medications (e.g. oxybutynin, benadryl), reduce sedating medications.
- Brain MRI in some cases do if change has been rapid, diagnosis unclear, and a recent <u>fall</u> is possible (r/o subdural hematoma).
- (Neuropsychological testing)



DELIRIUM

Dementia

- Gradually and slowly progressive over months to years
- Minor fluctuations over the course of the day or weeks



Delirium

- Sudden onset anything sudden onset in an older person is delirium unless proven otherwise
- More dramatic fluctuations
- Look for: recent medication change or acute illness.



"REVERSIBLE" CAUSES OF DEMENTIA

- Depression
- Hypothyroidism
- Medications
- General medical illness (e.g. B12 deficiency)
- Sleep apnea



- Sleep study OSA does not have much effect on cognition
- D/C psychotropic medications (gabapentin, antidepressants, mood stabilizers, benzodiazepines, antipsychotics)



THE DEMENTIAS

- Alzheimer's disease
- Dementia with Lewy bodies
- Parkinson's disease dementia
- Vascular dementia
- Frontotemporal dementia

ALZHEIMER'S DISEASE – MOST COMMON

(1/3 OF PEOPLE OVER AGE 85)

Key presenting symptoms

- Strongly reduced ability to make new memories, leading to:
 - Repeated identical questions
 - 2. Re-telling the same story multiple times
- Word finding difficulties
- Giving up prior activities (socializing, reading, house work, computer)

...often misdiagnosed as:

Depression

Family members wonder about depression as the cause of social withdrawal or reduced engagement in activities.

Inattention

Spouses complain about their husband/wife not listening to them.



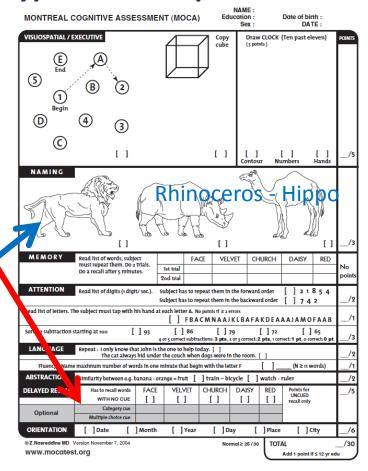
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Typical MOCA pattern



DEMENTIA + PARKINSON'S

Lewy Body Dementia

- Dementia precedes the onset of Parkinson symptoms.
- Strongly fluctuating symptoms
 (DD psychiatric/volitional)
- REM sleep disturbance (DD nightmares)
- Visual hallucinations (DD psychotic illness)
- More pronounced visualspatial deficits than in "pure AD".

Parkinson's Dementia

 Parkinson symptoms precede the onset of dementia.

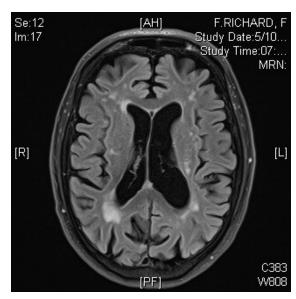


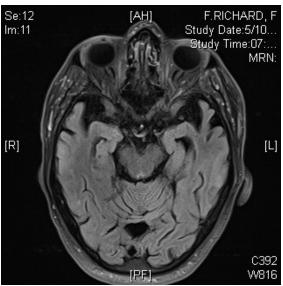
BIZARRE VISUAL SYMPTOMS IN A MIDDLE-AGED OR OLDER PATIENT:

- Visual hallucinations psychosis vs. dementia with Lewy bodies
- Posterior cortical atrophy variant of Alzheimer's disease: younger onset than regular AD, may present with visual symptoms such as bizarre visual distortions, being unable to recognize objects, loss of ability to read - often misunderstood as eye problem or factitious disorder. Visual-spatial difficulties on the MOCA.

VASCULAR DEMENTIA

- Destruction of brain tissue by cerebrovascular disease
- More varied presentation than Alzheimer disease – scattered deficits on the MOCA
- Often co-occurs with Alzheimer disease





FRONTOTEMPORAL DEMENTIA

- Can affect patients <u>as young as age 35</u>.
- Behavioral variant vs. progressive aphasia.
- Behavioral variant is often misdiagnosed as bipolar disorder, personality disorder, depression.
- Prominent symptoms (differ by patient):
 disinhibition, impulsivity, hyper-sexuality, change
 in food preference to sweet or salty snacks, loss
 of empathy, apathy, psychomotor slowing.
- Marked personality change usually precedes marked cognitive change.

NEUROPSYCHIATRIC SYMPTOMS OF

DEMENTIA

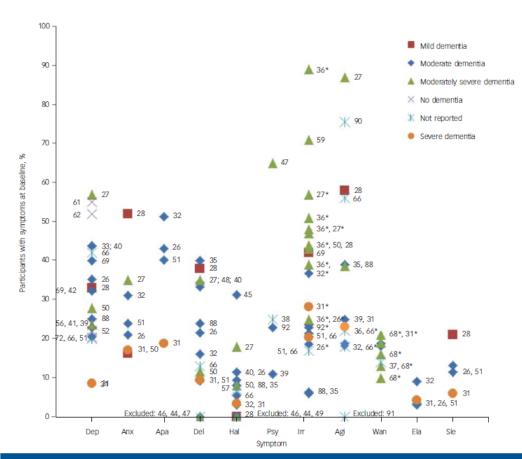


Fig. 1 Baseline prevalence of behavioural and psychological symptoms; see online Table DS2 for more details. Numbers are the reference numbers of the induded studies. 'Excluded' indicates that the study excluded participants with a particular symptom at baseline (i.e. the prevalence was 0%). Twenty-six studies that did not report baseline prevalence or reported on a population already included in the figure are omitted. Dep, depression; Arx, anxiety; Apa, apathy; Del, delusions; Hal, hallucinations; Psy, psychosis; Irr, irritability; Agi, agitation; Wan, wandering; Ela, elation; Sle, sleep problems. *Subsymptom reported separately.

- Depression
- Anxiety
- Apathy
- Delusions
- Hallucinations
- Psychosis
- Irritability
- Agitation
- Wandering
- Elation
- Sleep problems

Rianne M. van der Linde, Tom Dening, Blossom C. M. Stephan, A. Matthew Prina, Elizabeth Evans and Carol Brayne. Longitudinal course of behavioural and psychological symptoms of dementia: systematic review. The British Journal of Psychiatry (2016)209, 366–377



TREATMENT OPTIONS

Cognitive symptoms

- Cholinesterase inhibitors

 (e.g. donepezil, rivastigmine patch): AD, dementia with
 Lewy bodies
- Memantine: moderate to advanced AD

Behavioral symptoms

- Antidepressants
- Antipsychotics (low dose quetiapine, risperidone – cost is an issue; risk of increased mortality in older patient with dementia)
- Prazosin for agitation (up to 8 mg in divided doses)
- Mood stabilizers (e.g. lamotrigine, depakote)



HOW IS MEDICATION MANAGEMENT DIFFERENT IN THE OLDER PATIENT?

- Avoid benzodiazepines if possible risk of worsening confusion and agitation, risk of falls.
- Reduce anticholinergic load (Beers list).
- Check all older patients on SSRIs for hyponatremia (q 6 months).
- Risk of QT prolongation (citalopram).
- Much higher prevalence of sexual side effects on SSRIs and SNRIs (use mirtazapine or bupropion, possibly vilazodone, in older men,).
- Consider impaired clearance due to kidney or liver disease.



ELEMENTS OF CARE IN DEMENTIA

- Involvement of care giver(s): screening for caregiver burden and/or depression – training of care givers in behavioral interventions
- Ties to community agencies for additional support (e.g. Alzheimer's Association)
- Care is more challenging (NPS are often treatment-resistant)
- More limited psychotherapeutic approaches (behavioral activation, pleasant events)

CARE PARTNER INVOLVEMENT

- Education about cognitive impairment
- Psychological assessment of the care partner and referral to psychiatric care as needed
- Referral to community support <u>http://www.alz.org/, http://www.theaftd.org/</u>
- Teaching care partners about realistic expectations, good communication, problem solving, and pleasant events