Managing the Care of Older Patients with HIV



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Financial Relationships With Ineligible Companies (Formerly Described as Commercial Interests by the ACCME) Within the Last 2 Years

Dr Greene has received grant support from Gilead Sciences, Inc. (Updated 9/30/21)

Learning Objectives

After attending this presentation, learners will be able to:

Describe key components of Geriatric Assessment through the 5Ms framework

List practical assessment tools for cognitive impairment and falls

Describe strategies to ask and address social isolation and loneliness

Audience Response 1:

Have you referred any of your older HIV+ patients to a geriatrician?

Yes

No, not sure who/where I would refer to No, not sure what would be involved in a visit

Case

74 y/o diagnosed with HIV in 1984

- CD4 count 440, viral load undetectable
- Hypertension, CKD, osteoporosis, depression, treated anal SCC
- 9+ medications daily
- Quit his job when diagnosed with HIV, lost many friends in 80s/90sfeels isolated

Greene M. JAMA 2013

death sentence. That
was what was
expected—you would
die. To live even 5
years was a surprise
to me..."

those days it was a

"When you got HIV in

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5Ms of Geriatrics

Mentation Dementia **M**ULTICOMPLEXITY MIND Delirium ...describes the whole person, Depression typically an older adult, living Amount of mobility; function with multiple chronic conditions, **M**OBILITY Impaired gait and balance advanced illness, and/or with Fall injury prevention complicated biopsychosocial needs Polypharmacy, deprescribing **M**EDICATIONS Optimal prescribing Adverse medication effects and medication burden Each individual's own meaningful health outcome WHAT goals and care preferences **M**ATTERS MOST

5Ms and HIV Clinical Guidelines

- Adverse drug events from ART and concomitant drugs may occur more frequently in older persons with HIV than in
 younger individuals with HIV. Therefore, the bone, kidney, metabolic, cardiovascular, cognitive, and liver health of
 older individuals with HIV should be monitored closely.
- Polypharmacy is common in older persons with HIV; therefore, there is a greater risk of drug-drug interactions between antiretroviral drugs and concomitant medications. Potential for drug-drug interactions should be assessed regularly, especially when starting or switching ART and concomitant medications.
- The decline in neurocognitive function with aging is faster in people with HIV than in people without HIV. HIVassociated neurocognitive disorder (HAND) is associated with reduced adherence to therapy and poorer health
 outcomes including increased risk of death. For persons with progressively worsening symptoms of HAND, referral to
 a neurologist for evaluation and management or a neuropsychologist for formal neurocognitive testing may be
 warranted (BIII).
- Mental health disorders are a growing concern in aging people with HIV. A heightened risk of mood disorders
 including anxiety and depression has been observed in this population. Screening for depression and management of
 mental health issues are critical in caring for persons with HIV.
- HIV experts, primary care providers, and other specialists should work together to optimize the medical care of older persons with HIV and complex comorbidities.

https://clinicalinfo.hiv.gov/en/guidelines/adult-and-adolescent-arv/hiv-and-older-person

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Box 6. Recommendations for Polypharmacy, Frailty, and Cognitive Function Screening for Older People With HIV

- Close and sustained attention to polypharmacy is recommended in the management of older people with HIV (evidence rating: AIII)
- Assessment of mobility and frailty is recommended for patients aged 50 years or older using a frailty assessment that is validated in all persons with HIV (evidence rating: BIa); the frequency of frailty assessment is guided by the baseline assessment and should be more frequent (every 1-2 years) in patients who are frail or before becoming frail, and less frequent (up to 5 yearly) in patients who are robust (evidence rating: BIII)
- In patients who are frail or prefrail, management of polypharmacy, referral for complete geriatric assessment, exercise and physical therapy, and nutrition advice is recommended (evidence rating: AIII)
- Routine assessment of cognitive function every other year using a validated instrument is recommended for people with HIV who are older than 60 years (evidence rating: BIII)

JAMA 2020

Even more important since Covid-19 pandemic

Other consequences COVID:

Increased isolation



- Increase in mental health concerns & substance use
- Decreased physical activity (fear leaving home)
- Difficulty keeping caregivers

Decline in cognitive and physical function, increase in falls

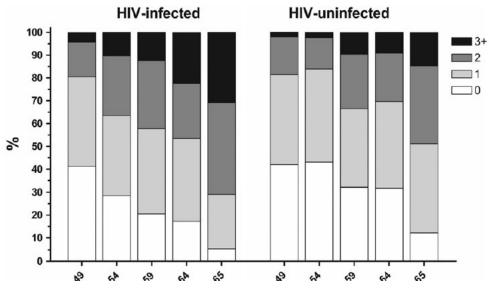
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Multi-complexity: Relevance to HIV and geriatrics

Multi-morbidity & polypharmacy

Geriatric Syndromes

Complex psychosocial situations



Multimorbidity Higher in PWH

Conditions included: CAD, HTN, PAD, CVD, COPD, DM, Renal Dz, Non-AIDS CA, Osteoporosis

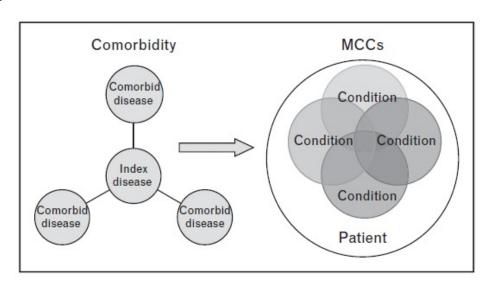
Schouten CID 2014

Multimorbidity Requires a Different Approach

Not just individual problems on a problem list:

 Individual disease and screening guidelines focus on Dx and Rx- adding medications

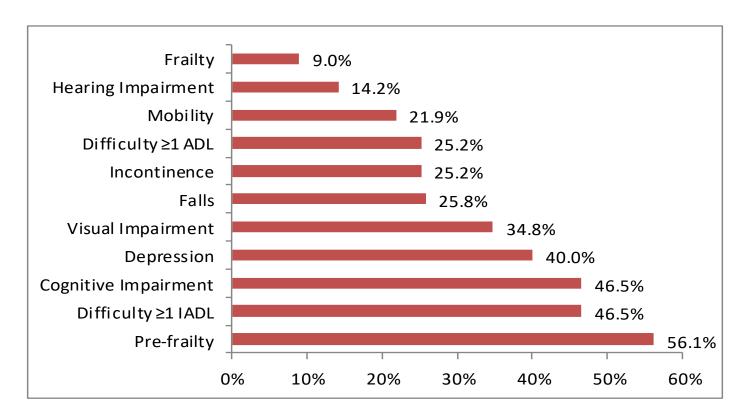
Treatment Interactions



Boyd, Lucas Curr Opin HIV/AIDS 2014

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Geriatric Syndromes In PWH



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Greene JAIDS 2015

5Ms: Mobility & Function

Mobility: Stairs Room/House

Community

Activities of Daily Living (ADLs)

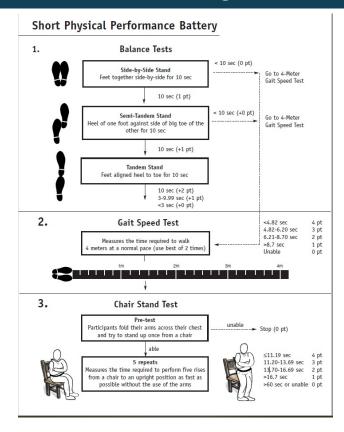
- Bathing
- Dressing
- Toileting
- Transferring
- Feeding

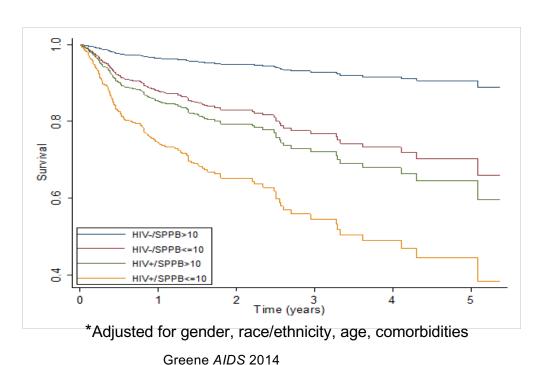
Instrumental Activities of Daily Living (IADLs)

- Telephone
 Finances
- Transportation Laundry
- Housekeeping Shopping
- Meal preparation
- Medications

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5Ms: Mobility: Short Physical Performance Battery





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5Ms: Mobility: Falls in PWH

| Cohort | Mean age (years) | Any Fall | Recurrent Falls |
|---------------|---------------------|----------|--------------------|
| HAILO | 51 | 18% | 7% |
| Colorado | 52 | 30% | 18% |
| MACS/WIHS | 51 | 24% | 13% |
| MACS-BOSS | 61 | 41% | 20% |
| WIHS | 48 | 41% | 25% |
| San Francisco | 57 | 26% | |

Tolentino *JAIDS* 2021; Womack *JAIDS* 2019; Tassiopoulos K *AIDS* 2017; Erlandson *HIV Med* 2016; Erlandson *JAIDS* 2012; Sharma *Antivir Ther* 2019; Sharma *Antivir Ther* 2018; Greene *JAIDS* 2015 Slide courtesy Kristine Erlandson

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5Ms: Screen for Falls

- Do you feel unsteady when standing or walking?
- Do you worry about falling?
- Have you fallen in the past year?

SCREENED NOT AT RISK

PREVENT future risk by recommending effective prevention strategies.

- · Educate patient on fall prevention
- · Assess vitamin D intake
 - If deficient, recommend daily vitamin D supplement
- Refer to community exercise or fall prevention program
- Reassess yearly, or any time patient presents with an acute fall

SCREENED AT RISK

ASSESS patient's modifiable risk factors and fall history.

Common ways to assess fall risk factors are listed below:

Evaluate gait, strength, & balance

- Common assessments:
 Timed Up & Go
- 30-Second Chair Stand Balance Test

Identify medications that increase fall risk (e.g., Beers Criteria)

Ask about potential home hazards (e.g., throw rugs, slippery tub floor)

Measure orthostatic blood pressure (Lying and standing positions)

Check visual acuity

Common assessment tool:

· Snellen eye test

Assess feet/footwear

Assess vitamin D intake

Identify comorbidities (e.g., depression, osteoporosis)

cdc.gov

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CDC STEADI fall algorithm

30-Second Chair Stand Test

Use this test to assess a patient's leg strength and endurance. See our simple instructions, and watch the short video on how to conduct the test.



Download

 The 30-Second Chair Stand Test
 [178KB]

Watch How to Conduct the Test (2:08)



Low Resolution Video

Timed Up and Go (TUG) Test

Use this test to assess a patient's mobility. See our simple instructions, and watch the short video on how to conduct the test.



Download

· The Timed Up and Go (TUG) Test [148KB]



4-Stage Balance Test

Use this test to assess a patient's balance. See our simple instructions, and watch the short video on how to conduct the test.



Download

 The 4-Stage Balance Test

 [927KB]

Watch How to Conduct the Test (2:06)



Low Resolution Video

Measuring Orthostatic Blood Pressure

Use this tool to determine if a patient may have postural hypotension.

Download

 Measuring Orthostatic Blood Pressure [558KB]



INTERVENE to reduce identified risk factors using effective strategies.

Reduce identified fall risk

• Discuss patient and provider health goals Develop an individualized patient care plan (see below) Below are common interventions used to reduce fall risk:

Poor gait, strength, & balance observed

- · Refer for physical therapy
- Refer to evidence-based exercise or fall prevention program (e.g., Tai Chi)

Medication(s) likely to increase fall risk

· Optimize medications by stopping, switching, or reducing dosage of medications that increase fall risk

· Refer to occupational therapist to evaluate home safety

Orthostatic hypotension observed

- · Stop, switch, or reduce the dose of medications that increase fall risk
- Educate about importance of exercises (e.g., foot pumps)
- · Establish appropriate blood pressure goal
- Encourage adequate hydration
- Consider compression stockings

Visual impairment observed

- Refer to ophthalmologist/optometrist
- · Stop, switch, or reduce the dose of medication affecting vision (e.g., anticholinergics)
- · Consider benefits of cataract surgery
- · Provide education on depth perception and single vs. multifocal lenses

Feet/footwear issues identified

- · Provide education on shoe fit, traction, insoles, and heel height
- Refer to podiatrist

Vitamin D deficiency observed or likely

· Recommend daily vitamin D supplement

Comorbidities documented

- · Optimize treatment of conditions identified
- · Be mindful of medications that increase fall risk

FOLLOW UP with patient in 30-90 days.

Discuss ways to improve patient receptiveness to the care plan and address barrier(s)

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5Ms-Mind

Classic HAND symptoms:

Executive function (multi-tasking)

Attention (perceived as memory trouble)

Slowing, motor symptoms

Fluctuating Course

Typical age-related memory loss and other changes compared to Alzheimer's

Signs of Alzheimer's Typical age-related changes

| Poor judgment and decision making | Making a bad decision once in a while | |
|--|--|--|
| Inability to manage a budget | Missing a monthly payment | |
| Losing track of the date or the season | Forgetting which day it is and remembering later | |
| Difficulty having a conversation | Sometimes forgetting which word to use | |
| Misplacing things and being unable to retrace steps to find them | Losing things from time to time | |

Cognitive symptoms can have many contributing factorscomorbidities, medications, substance use

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5MS- Mind

- Mini-cog
 (3-item recall & clock draw)
- MMSE
- MOCA
 - -Likely best for HIV, mild Alzheimer's
- HIV Dementia Scale
 -Detect severe cases
- Digital Assessments

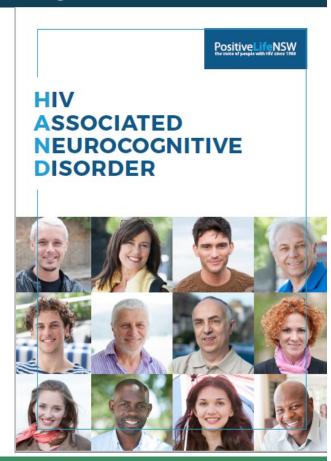
MONTREAL COGNITIVE ASSESSMENT (MOCA) VISUOSPATIAL / EXECUTIVE 0 [] [] [] [] Contour Numbers Hands Read list of words, subject must repeat them. Do 2 trials. Subject has to repeat them in the backward order [] 7 4 2 [] FBACMNAAJKLBAFAKDEAAAJAMOFAAI

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5Ms- Mind- Addressing Cognitive Symptoms

- CSF escape is rare- consider if rapid progression
- **ART! ART!**
- Address polypharmacy
- Treat comorbidities –vascular risk factors
- Treat depressive symptoms
- Address sleep
- Address Sensory impairment
- Exercise
- Compensatory strategies using lists, calendars, avoid multitasking
- Advanced care planning

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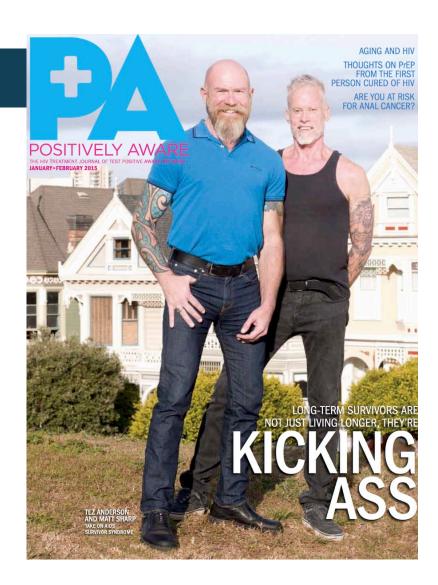
Mind = Mental Health

Depression more common in HIV+

Not just depression:

- PTSD
- Intersection stigmas
- Loneliness

Co-exist with substance use



5Ms: Matters Most Addressing Loneliness & Isolation

Loneliness is the *subjective* feeling of being alone.

Social Isolation relates to a quantifiable number of relationships

Not the same as living alone



Health impacts:

- -Depression
- -Cognitive & functional decline
- -Increase mortality similar to smoking 15 cigarettes/day

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Ask!

- Controversy over asking directly "do you feel lonely?"
- Ask about social support
 "How many people do you feel you can depend on or feel close to?

Related:

- Ask about access phone, video
- Ask about emergency contact leading to surrogate decision maker

3-item UCLA Loneliness scale

- 1. I feel left out
- 2. I feel isolated
- 3. I lack companionship

Hardly Ever, Some of the Time, Often

Cudjoe *JAGS* 2020; Campaigntoendloneliness.org; Natl Academies of Science, Engineering & Medicine 2020 Slide 22 of 27 *Social Isolation and Loneliness in Older Adults: Opportunities for the Health Care System.*

Interventions for Loneliness in HIV+

- Online support groups
- Mindfulness based cognitive therapy
- Telephone based interventions
- Group interventions for smoking cessation, peer counseling sessions on sexual risk behaviors

- Choose questions and services feasible to you
- Partner with community organizations
 Direct interventions
 Reaching most lonely
- Recognizing resilience

Mo Pt Educ & Couns 2013; Stanton AIDS Care 2015; Samhkaniyan J Med Life 2015; Heckman Ann Int Med 2006; Slide 23 of 27 Hart Plos One 2016, Wu Health Psych & Behav Med 2014

How will I be able to do This?

What are your local resources?

Telehealth options with geriatrics? Community partners

- Which areas (like in 5Ms) are you already addressing?

 Pick one to start
- What is your staffing and availability to help with doing assessments?

And follow-up after screening/assessment Team approach but can break into visits or telehealth sessions

Geriatric Assessment During COVID

- Telehealth is here to stay
- Self-report of falls, function can be asked on phone
- Can still observe gait, getting up out of chair
- Advantages to video visits in home:
 See parts of environment
 Med review!!!
 Improve access limited mobility

UCSF Geriatrics Workforce Enhancement Program Presents:

Caring for Older Adults During COVID-19:
Assessment and Management via Telehealth

https://bit.ly/UCSFGWEP_TELEHEALTH

Summary

5Ms of Geriatrics Approach can help improve care & address **Multi-complexity** many Older PWH experience

Mobility: Ask about function (ADL, IADL) and falls --Objective assessments -SPPB, TUG complementary

Mind: Assess mental health and cognition-- MOCA may be best clinic based tool for HAND, cognitive symptoms

Matters most: Ask about loneliness & social isolation (normalize!)

Slide 26 of 27 - UCLA loneliness scale

