Geriatric Smorgasbord: Preventive Care, Dementia, UTIs, and Beyond

Mackenzie A. Mady, D.O. LVHN - Schuylkill Medical Plaza



Demographics

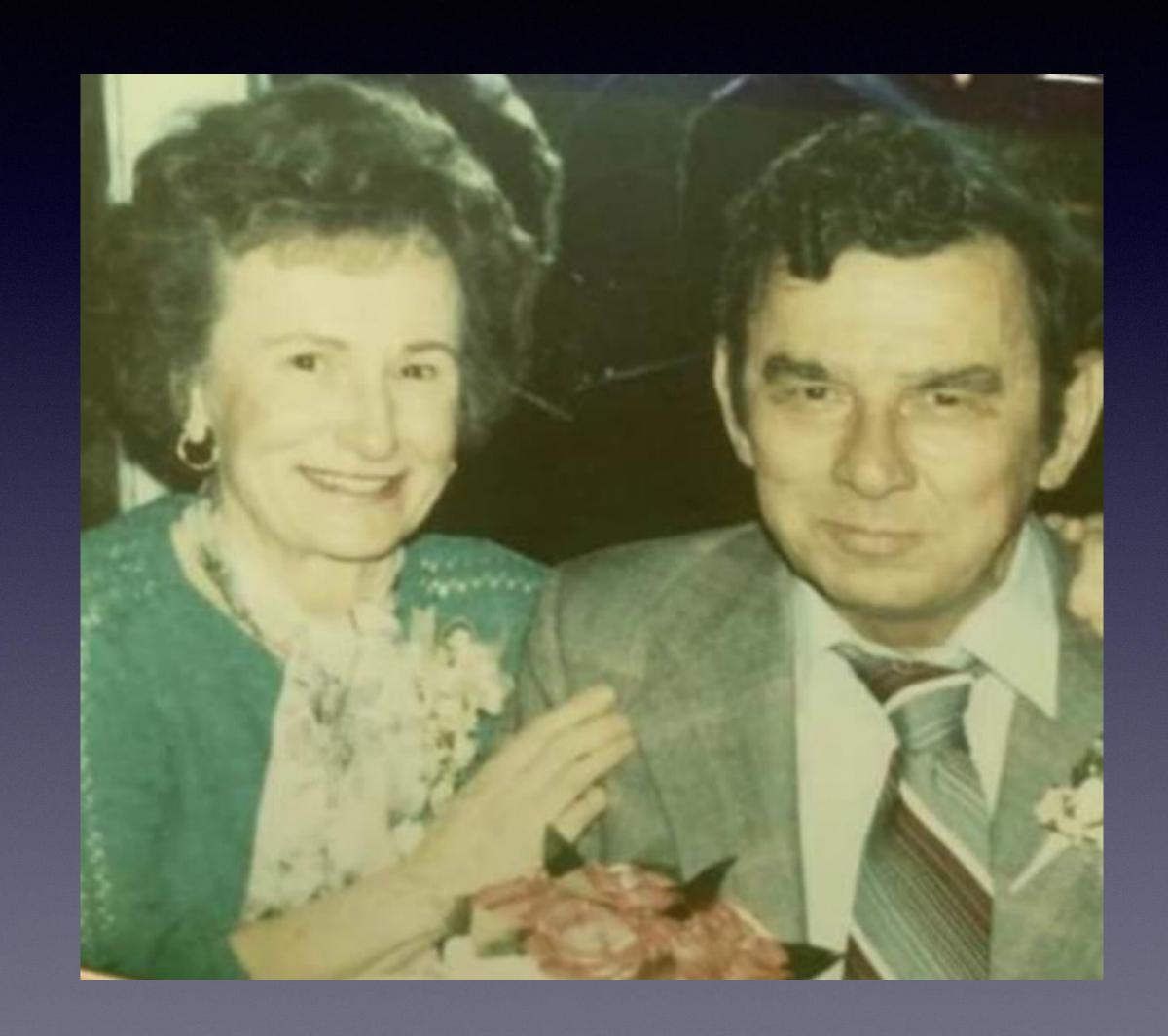
- Average U.S. life expectancy is 79 (2014)
- 20% of the US population will be >65 in 2030
- Adults are living longer and life with a chronic illness is a consequence: heart disease, cancer, stroke are the leading cause of death among elderly

Schuylkill County

- According to most recent census data, 21% of our population is >65 y/o
- 8% of our seniors live in poverty
- Transportation is limited
- Increased isolation

Functional Assessment

- Functional decline and/or loss of ADL independence is not a natural consequence of aging
- Chronic heath conditions play a large role
- Goal: promote safety and emphasize quality of life



Goal: Healthy Lifestyle

- Still important in this age cohort
- One study suggested that the elderly are at increased risk of moderate/severe disability if engaged in low physical activity, ate one fruit/veg a day, and/or smoker

Physical Activity

- Inactivity increases with age
- Goal: 30 minutes of moderate-intensity activity 5 days per week
- Include strength training and balance training
- · Increase mobility, independence, strength
- Decrease blood pressure



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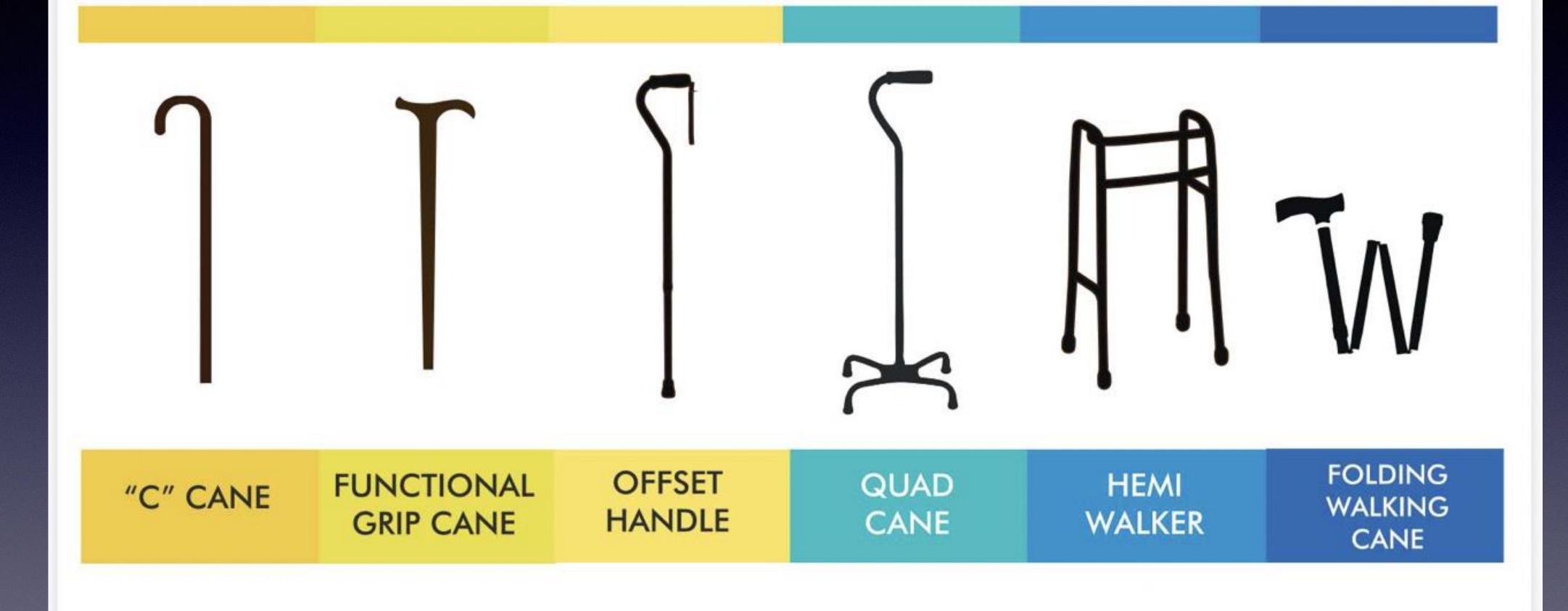
Nutritional Status

- High risk of malnourishment
- Promotion of high-quality, nutrient-dense foods
- Food insecurity?
- Red flag: unintentional weight loss over 6-12 month period
- Low BMI

Fall Prevention

- · Declutter home, grab bars, well-lit areas
- · Canes: unilateral pain/weakness in leg
- · Walkers: preferred for generalized unsteadiness/balance issues
- "Up with the good, down with the bad"
- Assess for visual impairment

TYPES OF CANES



Smoking Cessation

- Even older adults can benefit from cessation
- After 5 years of tobacco cessation, all-cause mortality is equivalent to that of nonsmokers
- Benefit includes those >80 years old



Depression

- · Can be difficult to asses in elderly population
- Often undetected
- High suicide rates, particularly in white men >85 y/o
- Increased presentation as apathy, cognitive impairment, somatic concerns, sleep issues, decreased energy

Cognitive Evaluation

- Currently not generally recommended to universally screen in those without symptoms
- Can be beneficial if concerns for memory impairment in early dementia
- MCI (Mild Cognitive impairment) stage between normal cognition and dementia

Dementia

- Alzheimer's Dementia is the most common
- More than one type of dementia can co-exist
- Gradual, progressive, change from baseline
- Other common forms:
 - Vascular
 - Lewy body
 - Frontotemporal (FT)

Type of Dementia	History	Signs and Symptoms	Pathology/Imaging
Alzheimer's Disease (50–80% of all dementia cases)	Gradual, progressive onset	Memory loss, especially for names and recent events Language deficits Rapid forgetting Impaired visuospatial skills Normal gait and neuro examearly Later affective disturbances; behavioral symptoms such as aggression	Generalized atrophy (esp. medial temporal) Beta amyloid plaques Neurofibrillary tangles
Vascular (20–30%)	Abrupt or gradual onset	Focal neurological signs Signs of vascular disease	Strokes Lacunar infarcts White matter lesions Vulnerable to cerebrovascular events
Lewy Body (10–25%)	Insidious onset, progressive with fluctuations	 Fluctuating cognition Visual hallucinations Neuroleptic sensitivity Shuffling gait Increased tone Tremors Falls 	Generalized atrophy Lewy bodies in cortex and midbrain
Frontotemporal (10–15%)	Insidious onset, typically in 50s-60s; rapid progression	Disinhibition Socially inappropriate behavior Poor judgment Apathy, decreased motivation	Frontal and temporal atrophy Pick cells and pick bodies in cortex

Alzheimer Disease

- Typically occurs after age 65
- Doubles in prevalence every 5 years
- Rare inherited forms can present in 5th decade of life or in those with Down syndrome



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Alzheimer Disease: Symptoms

- Memory impairment declarative episodic memory
- Executive functioning impairment
- Sleep disturbances
- Anosognosia
 - Utilize family members
 - Worse over time

Alzheimer Disease - Mid/Late Stages

- Dyspraxia (difficulty performing learned motor tasks) vs. apraxia (complete loss)
- Seizures
- Neuropsych symptoms

AD - Intervention

- Exercise
- Mental stimulation
- Occupational Therapy
- Physical Therapy
- Medication

Intervention - Agitation

- Routine
- Underlying pain?
- Sleep too much, too little
- Stimulation
- Environmental stability
- Simplify tasks

Infections in the Elderly

- Decreased immune response to infections
- Decreased antibody response to vaccines
- Chronic conditions contribute to above



Infections in the Elderly

- Those >65 may present with atypical, nonspecific symptoms
 - Decreased appetite
 - Increased confusion
 - Increased falls
- May not mount fever
- Co-existent cognitive impairment may add to complexity of diagnosis

Urinary Tract Infections

- Most common infection in those >65 y/o
- Assessment is impacted by:
 - Cognitive impairment
 - Increased incidence of urinary incontinence, OAB, etc.
 - Higher prevalence of asymptomatic bacteria colonization, which may actually confer protection

Online Resources:

- · CDC: STEADI
- Alzheimer's Association
- Local/online support groups

"Aging is not lost youth but a new stage of opportunity and strength."

Thank you!

Questions?

Mackenzie Mady © lyhn.org 570.621.9270