

Innovative Care Models: Delivering 'Whole Person Care' and Reducing Disparity

Sara K. Mamo, Au.D., Ph.D., CCC-A

Assistant Professor, UMass Amherst

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Overview

- Current knowledge
 - Age-related hearing and/or vision loss
 - Rehabilitation services
- Alternative approaches
 - Integrated rehabilitation programs
 - Community-based research & interventions
- Research priorities

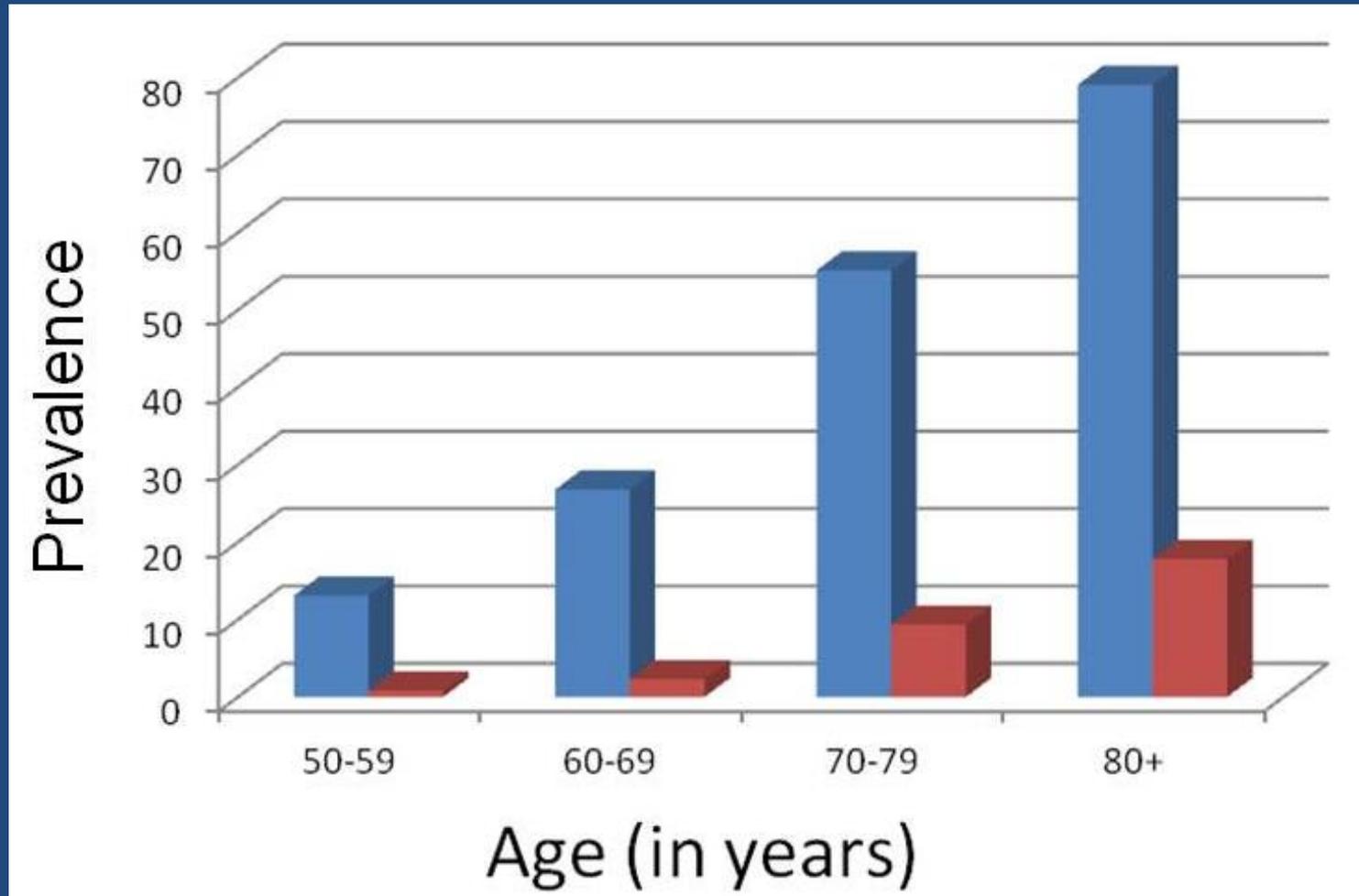
Why is this important

- For healthy aging:
 - Need to maintain social and physical engagement
- Sensory loss:
 - Impedes active participation and engagement
 - Likely contributes to faster rates of cognitive decline
- Successful sensory rehab needs to be in place before we can successfully treat cognitive decline

Who's receiving sensory loss rehabilitation?

CURRENT KNOWLEDGE

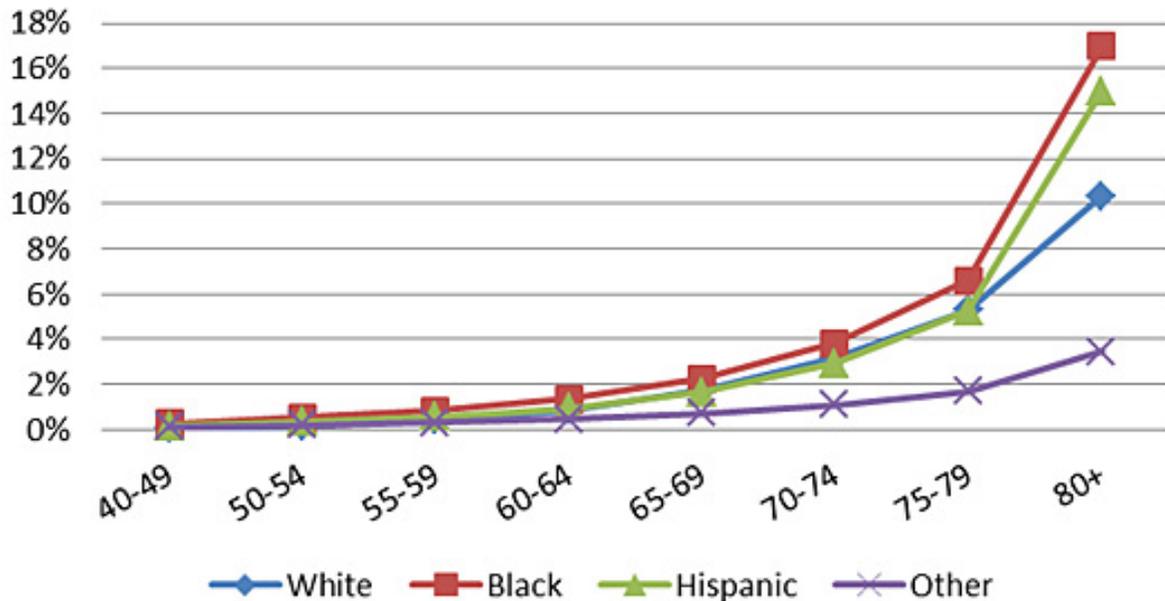
Hearing Loss & Hearing Aid Use Prevalence in the U.S. , 1999-2006



Age-Related Low Vision

Prevalence

2010 U.S. Prevalence Rates
Low Vision



Rehabilitation outcomes

- Outpatient LVR clinics
 - 28 clinics; 468 patients
 - 47% show improved overall visual ability
- VA inpatient clinic
 - 139 patients
 - 93% showed improved visual ability

Sensory Loss & Dementia

Hearing Loss Treatment

- Reduction in:
 - Caregiver-identified problem behaviors
 - Depressive symptoms
 - Neuropsychiatric symptoms

(Palmer et al., 1999; Mamo et al., 2017)

Low Vision Rehabilitation

- Improved visual acuity
- Reduced functional trajectories
- Families express unmet needs
- Practitioners express lack of knowledge in accommodating cognitive deficits

(Lawrence et al., 2009; Whitson et al., 2012)

Increase access to rehabilitative care

WHOLE PERSON CARE

Integrated Services

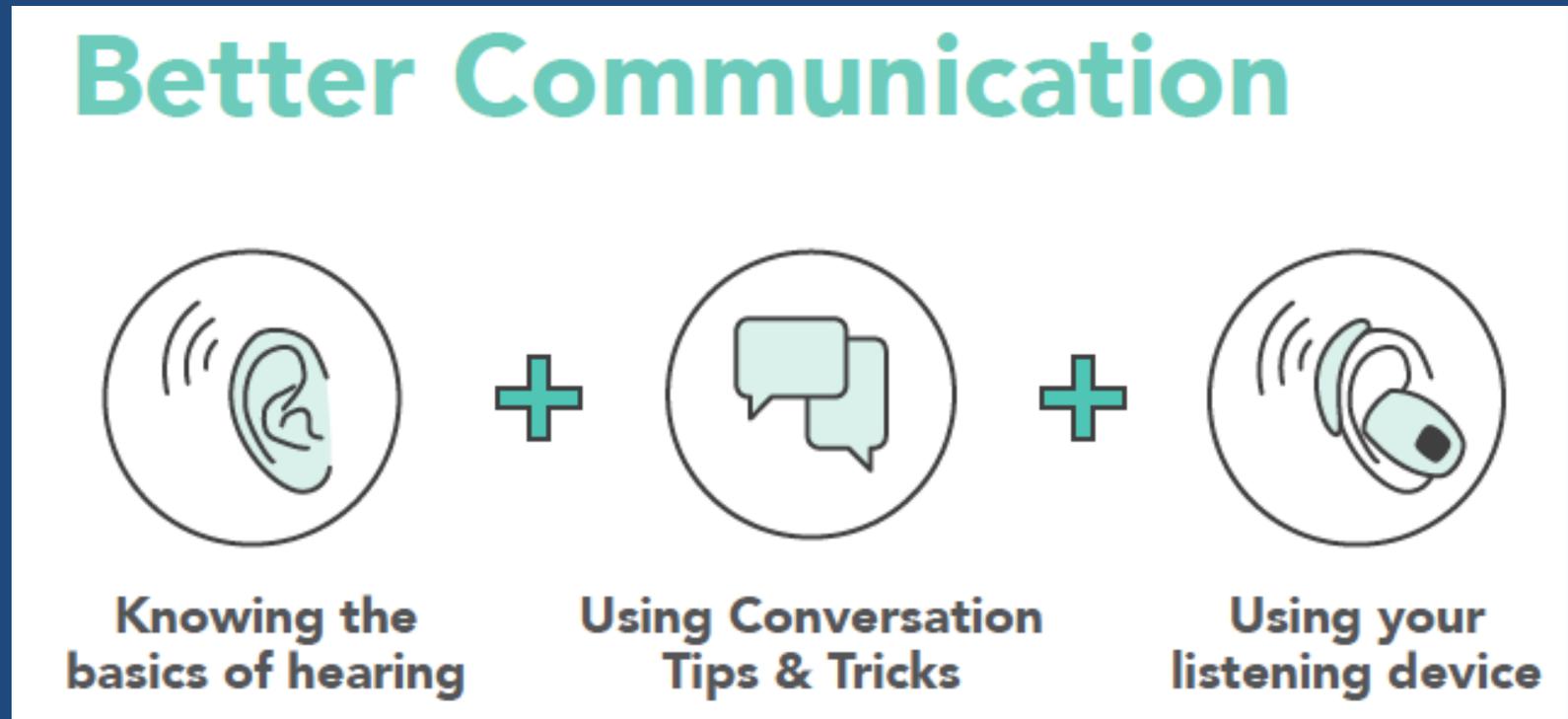
MORE-LVR

- Addressing cognitive deficits during low-vision rehab
- Target 4 common cognitive deficits
 - Short-term memory
 - Executive function
 - Communication barriers
 - Slow processing speed

Community-Based Services

Baltimore HEARS

- Access HEARS
 - Non-profit organization
- Memory HEARS
 - Dementia Clinic
- PACE HEARS
 - Group Care setting
- San Antonio HEARS
 - VA Geriatric Clinic setting
- Toronto HEARS
 - Senior Centers



Knowledge Gaps

- Does sensory rehabilitation slow cognitive decline?
- Do simple solutions (e.g., community-based education) create successful results?

Research Opportunities

- How do we integrate hearing and vision rehab into comprehensive treatment plans?
- What is good enough?