



# 

Disclosures

• No Conflicts of Interest to Disclose



# 

## Objectives

- 1. Explain the aging brain and the cognitive functions most susceptible to decline
- 2. Identify factors related to increased risk or resilience for cognitive decline
- 3. Discuss types of activities that might promote brain health and increase quality of life
- 4. Understand the relationship between mental health and physical health, and how integrative treatment approaches can help

True or False?	<ul> <li>If you live long enough, you will eventually develop dementia?</li> <li>Older adults cannot learn new things, like a language or new instrument?</li> <li>Memory loss is a normal part of aging?</li> </ul>
	<ul> <li>Once you start having memory &amp; thinking problems, there is nothing you can do about it?</li> </ul>









### Cognitive Functions with Age

- "Crystallized" Intelligence • Knowledge does not decline, and may even improve
- "Fluid" abilities show decrease over time
  - Visual Memory
  - Working Memory

  - Executive Attention/Processing Speed

The aging mind: neuroplasticity in response to cognitive training (Park & Bischof, 2013).



(**†**\*\*

What does normal cognitive aging "look" like?

- Mild changes in attention/processing speed common
- More difficulty multitasking or changing strategies
- Cognitive slowing
  - Can you repeat that?
  - May take longer to learn new things but learning is possible
- Memory Changes
  - "Tip of the tongue"
  - Problem is in accessing memory (recall) and not storage

# U

### Objectives

- 1. Explain the aging brain and the cognitive functions most susceptible to decline
- 2. Identify factors related to increased risk or resilience for cognitive decline
- 3. Discuss types of activities that might promote brain health and increase quality of life
- 4. Understand the relationship between mental health and physical health, and how integrative treatment approaches can help











# Dbjectives 1. Explain the aging brain and the cognitive functions most susceptible to decline 2. Identify factors related to increased risk or resilience for cognitive decline 3. Discuss types of activities that might promote brain health and increase quality of life 4. Understand the relationship between mental health and physical health, and how integrative treatment approaches can help

Brain Plasticity & Aging: Keeping the brain and body active!	Exercise	Socializing
	Physical activity	Mental activity







### Maine Understanding Sensory Integration & Cognition (MUSIC) Project

- ProjectLearning to play a music recorder
- 12-music lessons once a week in 26 older adults
- Preliminary findings suggest improvements in neuropsychological tests associated with global cognition & frontal lobe function
- Limitations no control group – yet!









# 

### Objectives

- 1. Explain the aging brain and the cognitive functions most susceptible to decline
- 2. Identify factors related to increased risk or resilience for cognitive decline
- 3. Discuss types of activities that might promote brain health and increase quality of life
- Understand the relationship between mental health and physical health and how integrative treatment approaches can help















