# Brain Health As You Age: Educator Guide

# Introduction to the Brain Health Educator Guide

In an effort to help you provide older adults and their caregivers with current information about brain health, we have prepared this presentation and Educator Guide.

This Educator Guide contains slides for a presentation designed to help older adults and their caregivers learn how to reduce risks that may be related to brain health. This hour-long presentation offers information at a basic level to older adults, or caregivers, or both. The slides cover:

- Aging and health
- Good health and the normal aging brain
- Threats to brain health
- Healthy aging for your body and brain

All of the information in the slides and accompanying materials has received the review of the National Institutes of Health and the Centers for Disease Control and Prevention.

If you do not have access to a projector and screen, simply use this guide to structure a conversation with your audience.

We have provided the following:

- Additional information for individual slides as needed
- A one-page brain health handout for older adults and caregivers called "Brain Health as You Age: You Can Make a Difference!"
- An optional handout, "Brain Health as You Age: Key Facts and Resources," that includes basic information and resources for the topics covered in the presentation

This guide provides one page per slide. Please be aware that the additional information provided for about half of the slides is for your information only. You do not have to learn or recite all this information. Use the slides as your guide, along with the additional information, when needed.

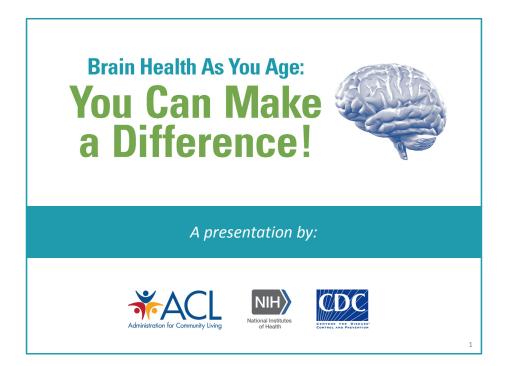
Thank you for using this health education resource. We look forward to working together to keep older adults and their caregivers healthy and productive in their later years.







# Slide 1: Brain Health as You Age









# Slide 3: Age-Related Changes in Memory and Learning

# Age-Related Changes in Memory and Learning

#### You may find:

- Increased difficulty finding words
- More problems in multi-tasking
- Mild decreases in ability to pay attention



#### You can still:

- Learn new things
- Create new memories
- Improve vocabulary and language skills



# Slide 4: Possible Risks or Threats to Brain Health

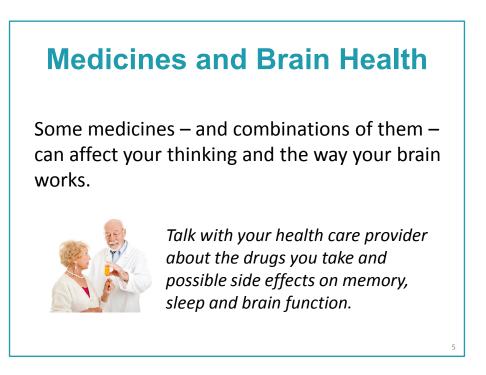
# Possible Risks or Threats to Brain Health

- Some medicines, or improper use of them
- Smoking
- Excessive use of alcohol
- Heart disease, diabetes, and other health problems
- Poor diet
- Insufficient sleep
- Lack of physical activity
- Little social activity and being alone most of the time

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# **Slide 5: Medicines and Brain Health**



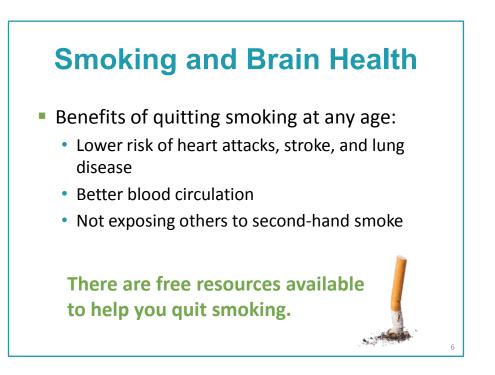
### **Additional Information**

Checking with your health care provider is important.

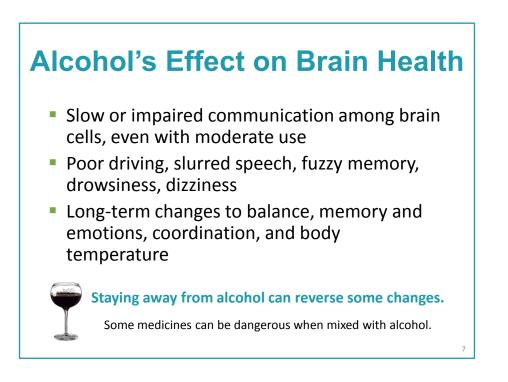
In addition, some community organizations, such as Area Agencies on Aging, hold meetings where health professionals go over peoples' medicines.



# Slide 6: Smoking and Brain Health



# Slide 7: Alcohol's Effect on Brain Health



#### **Additional Information**

Alcohol may act differently in older adults than in younger people. Some older adults can feel "high" without increasing the amount of alcohol they drink. This can make them more likely to be confused or have accidents, including falls, broken bones and fractures and car crashes, which can cause head injuries among other problems.

If people choose to drink alcohol, U.S. Dietary Guidelines for Americans say that moderate drinking is up to two drinks a day for men, and one for women.

Some people should not drink alcohol. Many older adults should be extra careful because they often take medicines that can interact with it. For example:

- Alcohol and over-the-counter cough and cold remedies together can cause drowsiness and potential accidental overdoses. Older people are at even greater risk for these side effects
- Using alcohol with common blood pressure medicines can increase risk for dizziness, drowsiness, and changes in heartbeat



# Slide 8: Common Conditions that Affect Brain Health

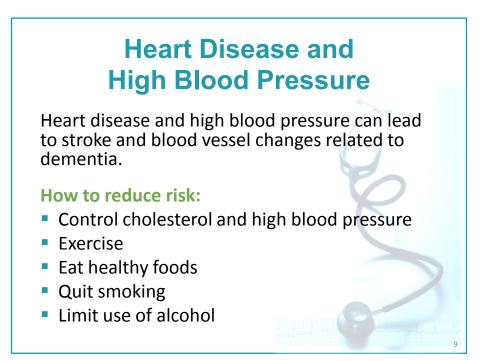
# **Common Conditions that Affect Brain Health**

- Heart disease, high blood pressure
- Diabetes
- Alzheimer's disease
- Stroke
- Traumatic brain injury
- Depression
- Sleep problems





# Slide 9: Heart Disease and High Blood Pressure

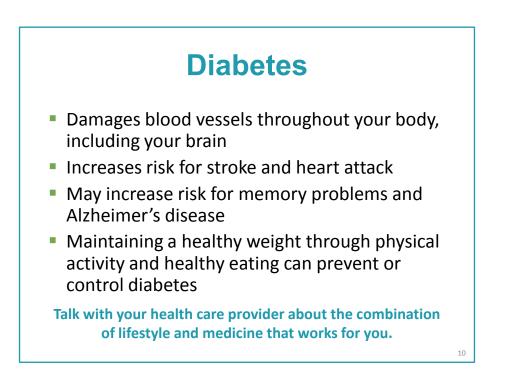


#### **Additional Information**

Many people with high blood pressure and heart disease do not know it, so it is important for you to get the recommended screenings for these health conditions.



### Slide 10: Diabetes



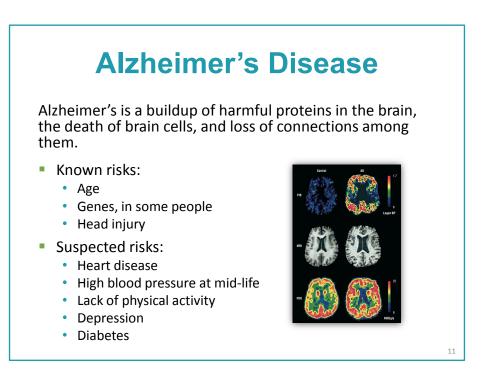
#### **Additional Information**

Many people with diabetes do not know that they have it. Sometimes, people with diabetes may feel unusually tired, urinate frequently, or feel very hungry or thirsty. If you have these symptoms, it is important to get screened.

Diabetes type 1 is not preventable.



## Slide 11: Alzheimer's Disease

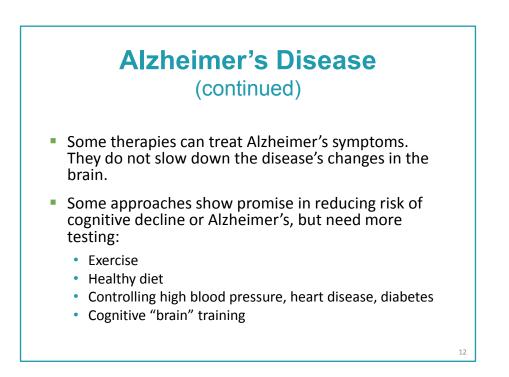


#### **Additional Information**

People with dementia have significant problems with cognition – the ability to think, learn, and remember. Alzheimer's disease is the most common form of dementia.

You should know that some conditions can mimic dementia, like hearing loss and depression. Also, some medicines can cause confusion and memory problems. So, it is important for you to check with your health care providers to rule out these potential problems.

# Slide 12: Alzheimer's Disease (continued)



#### **Additional Information**

Developing Alzheimer's disease has been linked to a number of risk factors, like diabetes, heart disease, high blood pressure, and lack of exercise. Researchers are studying whether specific ways of controlling these conditions or being active may reduce risk of developing the disease or prevent cognitive decline. Cognition is the ability to think, learn, and remember.

There is a lot of interest in research on "cognitive training." Researchers are investigating whether training in specific tasks will help maintain brain function. So far, studies show that some of this training can help improve skills in the training subject area. More research is being done to see how training might help people outside of the research setting.

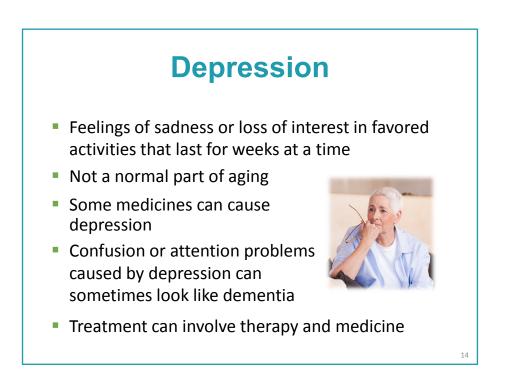


# Slide 13: Brain Injury





# Slide 14: Depression



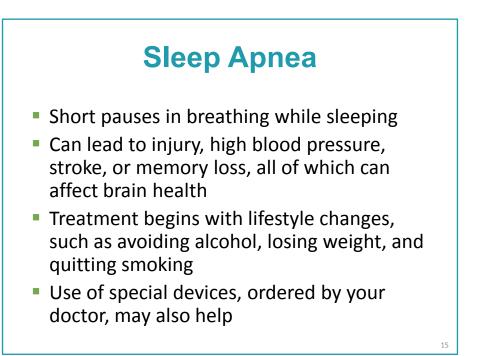
#### **Additional Information**

If you or someone you care about is in crisis, please seek help immediately.

- Call 911
- Visit a nearby emergency department or your health care provider's office
- Call the toll-free, 24-hour hotline of the National Suicide Prevention Lifeline at 1-800-273-TALK (8255) or 1-800-799-4TTY (4889) to talk to a trained counselor



# Slide 15: Sleep Apnea





# Slide 16: So, What Can You Do to Protect Brain Health?



#### **Additional Information**

Some of these actions can help maintain brain health. Others are still being studied to see how they might affect brain health. We do know that the actions listed in this slide are good for healthy aging.

# Slide 17: Take Care of Your Health

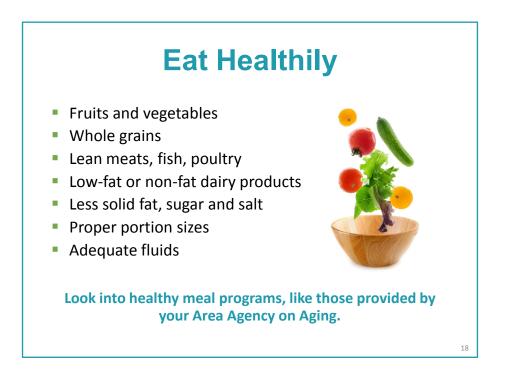


### **Additional Information**

Medicare beneficiaries are entitled to a free "Welcome to Medicare" visit within 12 months of joining the program as well as a free annual wellness visit.



# Slide 18: Eat Healthily

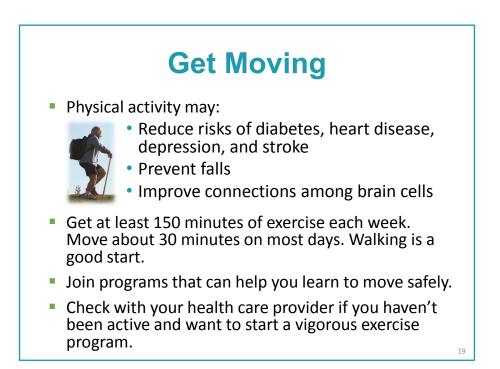


### **Additional Information**

Nutrition programs at Area Agencies on Aging provide meals and related services to older adults in a variety of places like senior centers, or in older people's homes, if they are homebound.



# Slide 19: Get Moving



#### **Additional Information**

Physical activity is one of the most important things an older adult can do for health. It can prevent or reduce your risk of health problems that seem to come with age, which include some of the diseases and conditions associated with brain health. It also helps you stay strong so that you can continue to do your day-to-day activities independently.

In fact, *not* doing physical activity can be bad for you, no matter your age or health condition.

If you are 65 or older and generally fit, with no limiting health conditions, you can benefit from doing aerobic and muscle-strengthening activities each week, using these guidelines:

- A combination of 2 hours and 30 minutes (150) minutes of moderate aerobic activity (such as brisk walking), with 2 or more days a week working all major muscle groups (legs, hips, back, abdomen, chest, shoulders, and arms)
- A combination of 1 hour and 15 minutes (75 minutes) of vigorous-intensity aerobic activity (such as jogging or running), with 2 or more days a week working all major muscle groups
- A balanced mix of moderate- and vigorous-intensity aerobic activity, with 2 or more days a week working all major muscle groups

# Slide 20: Keep Your Mind Active







## Slide 21: Stay Connected





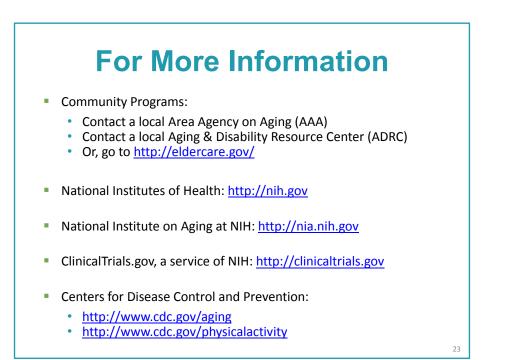
# Slide 22: What Can You Do Today?







### Slide 23: For More Information



#### **Additional Information**

Highlight local programs and refer to the following handouts if you have them available to distribute:

- Brain Health as You Age: You Can Make a Difference!
- Brain Health as You Age: Key Facts and Resources

In addition to health information, the NIH website has links to clinical trial opportunities for a variety of conditions and diseases related to brain health, including stroke, diabetes, Alzheimer's disease, and depression, at <u>www.clinicaltrials.gov</u>. An NIH-funded site <u>www.researchmatch.org</u> connects interested people with researchers through a free, secure website.