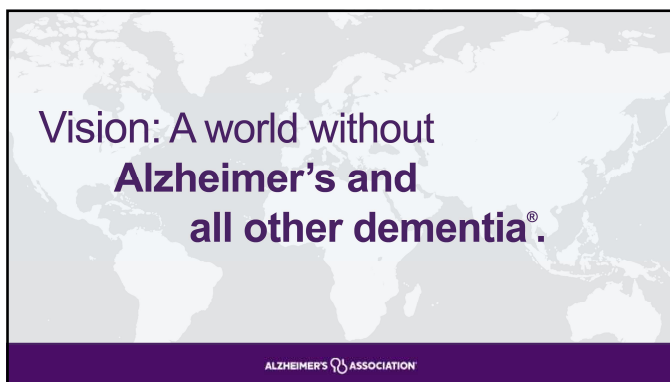


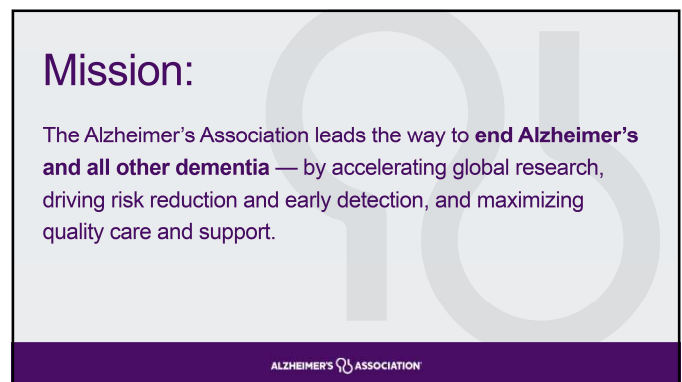
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## Local Commitment to Diverse Communities

- 24/7 Helpline available in over 200 + languages
- Programs translated into Arabic and Spanish
- Dedicated programming and outreach managers to:
  - Black/African Americans
  - Hispanic and Latino/Latina Americans
  - Middle Eastern North African Americans
  - Jewish Americans
  - People Living with HIV
  - LGBTQ+
  - People with Intellectual/Developmental Disabilities
  - Veterans



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## Dementia Facts

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## TYPES OF DEMENTIA

Dementia is an umbrella term for loss of memory and other thinking abilities severe enough to interfere with daily life.

- Alzheimer's
- Vascular
- Lewy body
- Frontotemporal
- Other, including Huntington's
- ★ **Mixed dementia:** Dementia from more than one cause

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More than **7 million** Americans are **living with Alzheimer's**.



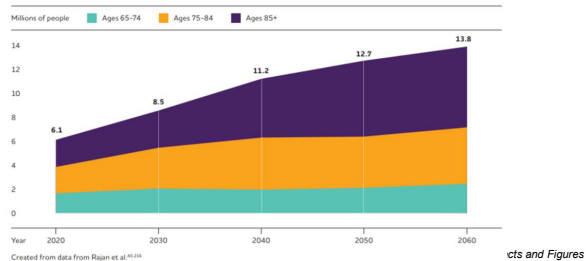
By 2050, this number is expected to rise to nearly **13 million**.



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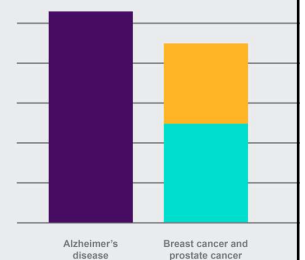
## Projected Number of People Age 65+ in the U.S. Population with AD



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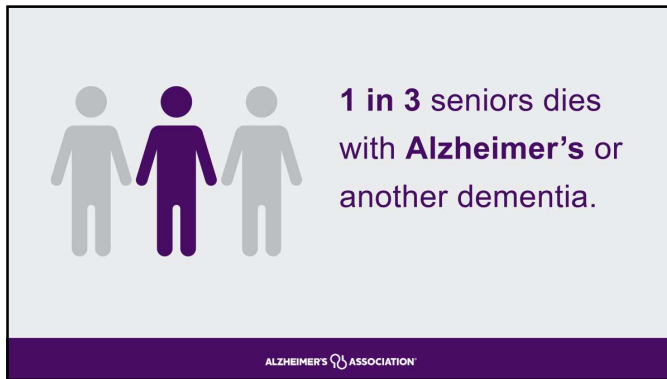
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**Alzheimer's** kills more people than **breast cancer** and **prostate cancer** combined.

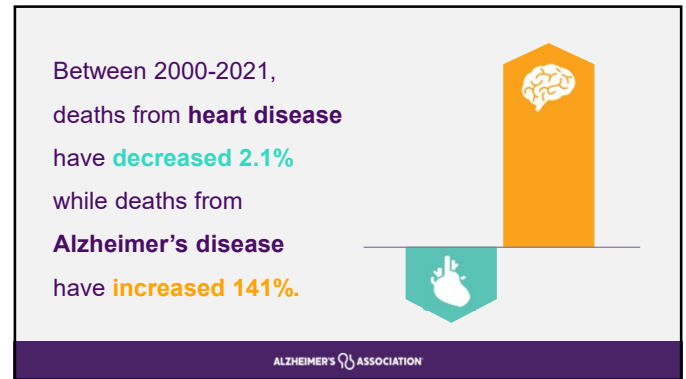


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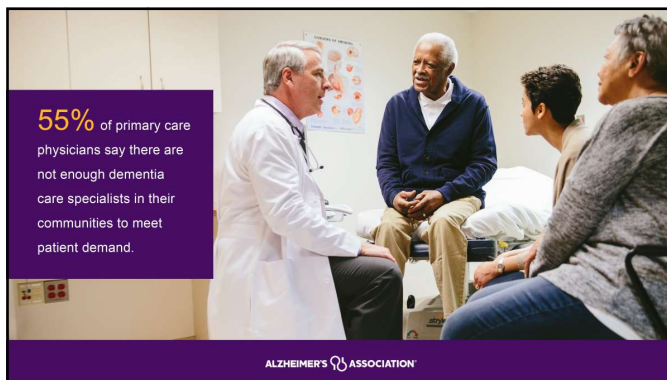
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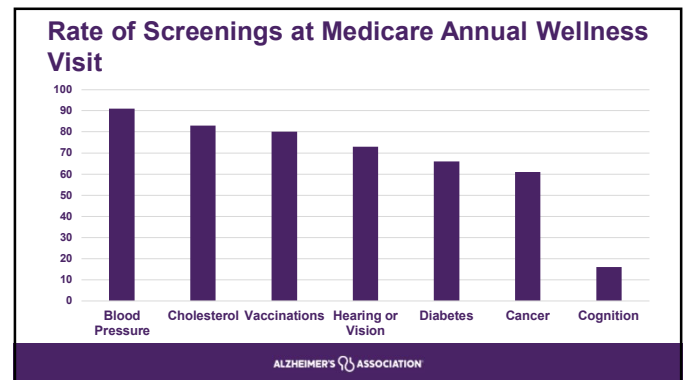
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16

### Who Should be Evaluated For Cognitive Impairment?

**Per the Alzheimer's Association:**

- Individuals with memory concerns or other cognitive complaints.
  - Non-memory triggers include personality change, depression, deterioration of chronic disease without explanation, and falls or balance issues
- Informant reports of cognitive impairment, with or without patient concurrence
- Medicare beneficiaries, as part of the Annual Wellness Visit

**Per the US Preventative Services Task Force 2014 Recommendations:**

- "For asymptomatic, community-dwelling adults 65 years and older. There is insufficient evidence to recommend for or against screening for cognitive impairment. Clinicians should remain alert to early signs or symptoms of cognitive impairment (e.g., problems with memory or language) and evaluate as appropriate."

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### Cognitive Testing is Just One Piece of the Puzzle

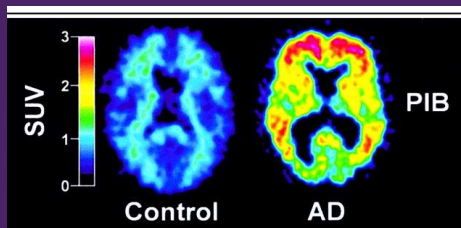
- Routine medical history and physical examinations is insufficient
- Cognitive testing is important particularly for older adults with cognitive concerns
- Impaired score must be taken in context of the clinical history and collateral information
  - Ceiling effects for younger and highly educated patients
  - Test characteristics (sensitivity and specificity) are less well defined for non-Alzheimer's etiologies
  - Possibility of false-positive results (less education, different cultural backgrounds, or tested in non-native language)

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### Brain Imaging: PIB Scanning, Identifying the Earliest Signs

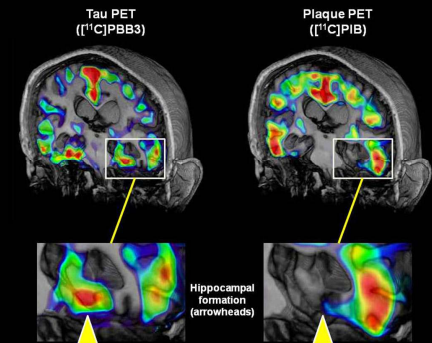


Researchers have developed compounds (PIB) that bind to amyloid and allow plaques to be "seen" with brain imaging

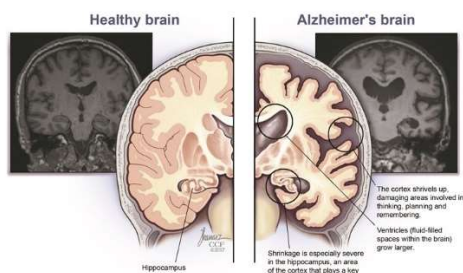
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### Tau lesions and senile plaques in Alzheimer's disease



26

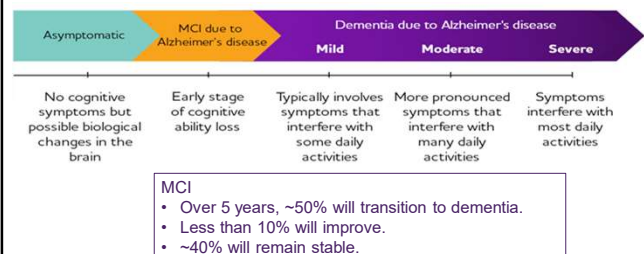


MRI scans (gray) and illustrations (color) show the differences between a brain affected by Alzheimer's disease and a normal brain.  
<https://www.keepmemoryalive.org/brain-science/alzheimers-brain>

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### Alzheimer's Disease is a Continuum



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### Risks for Dementia Include

#### Strongest Risk Factors

- Age
- Down Syndrome
- Genetic influences
- Heart Disease
- Metabolic Syndrome
- Diabetes
- Chronic medical illness
- Smoking
- Sleep problems
- Black/Latinx race/ethnicity
- Alcohol Abuse
- Depression/Anxiety

#### Weaker Risk Factors

- Female gender
- History of head injury
- Lower level of education
- Low activity level (cognitive, social, and physical)
- Stress

Which ones can we affect?

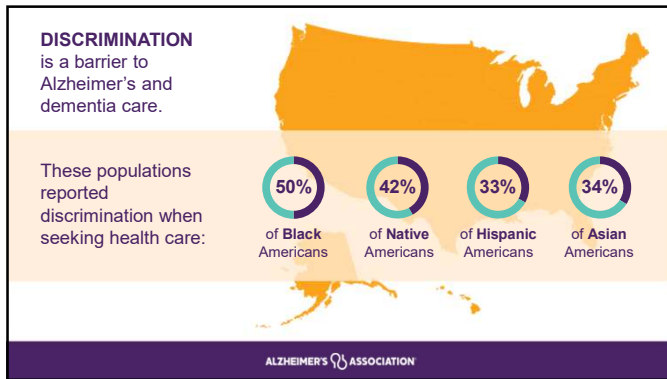
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## General Facts on Diverse Populations

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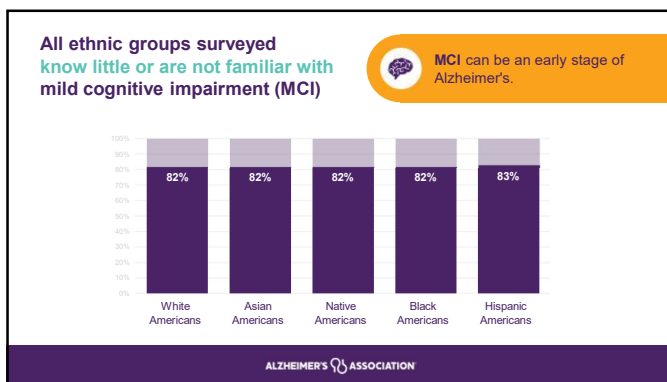
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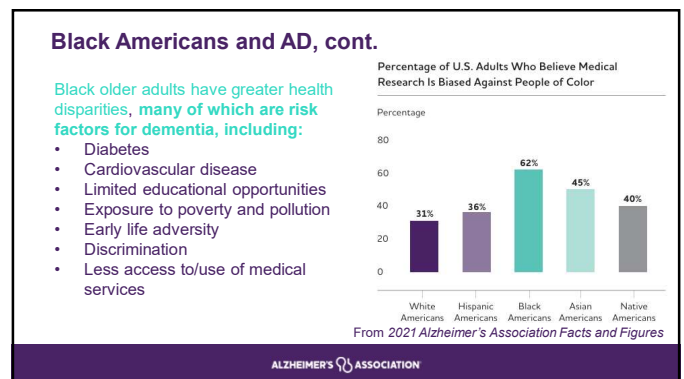
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34



35



36

## Hispanic and Latino/Latina Americans

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## Hispanic Americans and Alzheimer's Disease

Hispanic Americans are about **1.5 times** as likely as White Americans to have Alzheimer's and other dementias.



**57%** believe that a significant loss of memory or cognitive abilities is a "normal part of aging."



**1 in 3** report that they have experienced discrimination when seeking health care.



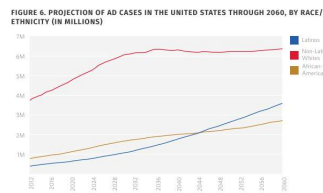
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## Hispanic Americans and AD, cont.

Hispanic older adults have greater health disparities, many of which are risk factors for dementia, including:

- Diabetes
- Cardiovascular disease
- Lower income and educational attainment
- Less access to/use of medical services



From *Latinos & Alzheimer's Disease: New Numbers Behind the Crisis*, 2016

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## Middle Eastern/North African (MENA) Americans

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## MENA Americans and Alzheimer's Disease

Compared to other ethnic groups, MENA populations are often underrepresented in dementia research, making it difficult to accurately assess the prevalence and risk factors within this community.



The Arabic word for dementia, "alkharaf", can be considered derogatory, further hindering individuals from seeking help.



Some studies indicate that foreign-born MENA women may have a significantly higher rate of undiagnosed dementia compared to MENA men

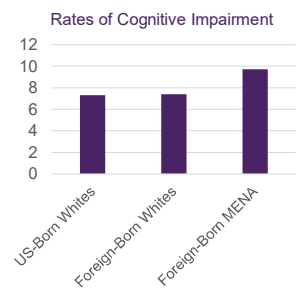
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## MENA American and AD

MENA older adults have greater health disparities, many of which are risk factors for dementia, including:

- Diabetes
- Cardiovascular disease
- Depression (with cultural stigma surrounding mental health treatment)
- Lower income and educational attainment
- Less access to/use of medical services



Dallo, F. J., Kindratt, T. B., & Zahodne, L. (2021). *Innovation in aging*.

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## Jewish Americans

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43

## Jewish Americans and Alzheimer's Disease

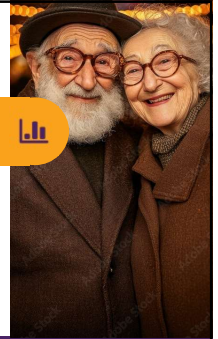
The risk of developing dementia is higher for Jewish Americans due to genetic factors, especially for those with Ashkenazi Jewish Ancestry.



Non-Ashkenazi Jews are more likely to develop Early Onset Dementia (before age 65) than non-Jews.



Holocaust survivors are **21%** more likely to develop dementia than non-survivors.



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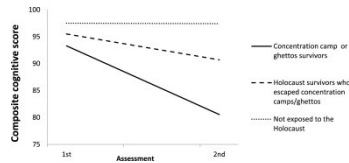
44

## Jewish Older Adults and AD and LBD

People of Ashkenazi Jewish descent are at a higher risk of developing certain types of dementia, including **Alzheimer's disease** and **dementia with Lewy bodies (DLB)**, due to a number of factors, including:

- Genetic risk factors, including APOE and GBA, among others.
- Genetic isolation

Holocaust exposure and late-life cognitive performance in men with coronary heart disease



(Weinstein et al., 2020)

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## People Living with HIV

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## People Living with HIV and Alzheimer's Disease and HAND



People living with HIV are 5x more likely to experience cognitive decline than those without HIV



**60%** of people living with HIV over the age of 50 and/or living with HIV 15+ years experience memory loss....

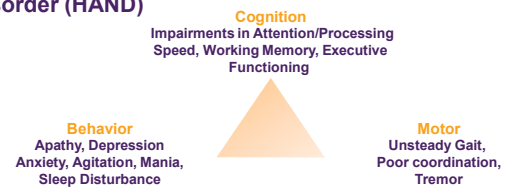


...but **36%** have NOT discussed this issue with a medical provider.

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## Clinical Features of HIV Associated Neurocognitive Disorder (HAND)



Unlike MCI/ADRD:

- Efficiency in learning and retrieval are reduced, but primary memory disturbances are rare
- Motor symptoms often present

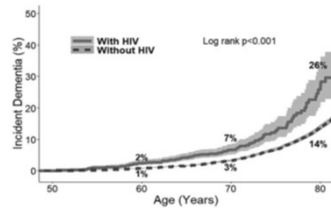
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## People Living with HIV and AD/HAND

People Living with HIV have higher rates of many of the co-morbidities which are risk factors for dementia, including:

- Diabetes
- Cardiovascular disease
- Depression and chronic stress
- Substance use disorders
- Greater number of chronic health conditions

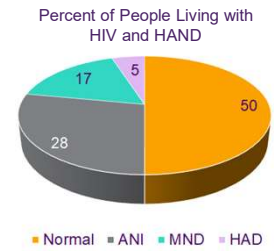


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## Risk Factors for HAND

- Age
- Low lowest CD4 count
- Low current CD4 count
- Poorly controlled viral load
- High blood pressure
- Diabetes
- Substance use disorders
- High cholesterol
- Hepatitis C



Modified from Ellis et al., 2007 & Grant et al., 2009

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## People who Are LGBTQ+

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## LGBTQ+ Americans and Alzheimer's Disease

LGBTQ+ individuals are **29%** more likely to report subjective cognitive decline (a possible precursor to dementia) than their cisgender, heterosexual counterparts.



Up to **30%** delay medical care due to fear of discrimination



**40%** report that their support networks have become smaller over time.



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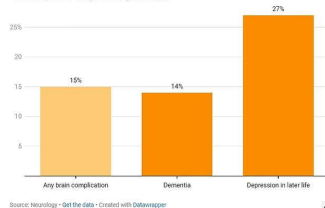
52

## LGBTQ+ Americans and AD

LGBTQ+ older adults have higher rates of many of the co-morbidities which are risk factors for dementia, including:

- Depression
- Obesity
- Alcohol and tobacco use
- Fewer preventative screenings
- Cardiovascular disease
- HIV

Dementia and depression in later life **MORE LIKELY** to strike gay, lesbian, bisexual or trans adults  
% risk compared to straight and cisgender adults



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## People with Intellectual/Developmental Disabilities

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### People with Intellectual/Developmental Disabilities and Alzheimer's Disease

More than 50% of people with Down syndrome will develop Alzheimer's and individuals with other intellectual and developmental disabilities may be at increased risk for dementia as well.

People with Down Syndrome not only have a higher risk of AD, they also develop it much younger and progression is generally quicker than in those without DS.

Diagnosing dementia in this population is complicated by the fact that no formal neuropsychological testing has been normed in those with I/DD.

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### Individuals with I/DD and AD

Older adults with I/DDs have higher rates of many of the co-morbidities which are risk factors for dementia, including:

- Diabetes
- Heart disease
- Sleep Disorders
- Epilepsy
- Depression/anxiety
- Low activity level
- Lower educational attainment

Comparison of dementia prevalence rates by age

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## Veterans

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### Veterans and Alzheimer's Disease

Veterans are at higher risk of developing dementia than non-veterans

A recent meta-analysis estimates the increase in dementia risk from any form of TBI was **70%**

Veterans with PTSD have almost **double** the dementia risk of veterans without PTSD.

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### Veterans and AD

Veterans have higher rates of many of the co-morbidities which are risk factors for dementia, including:

- Heart disease
- Depression
- High Cholesterol
- PTSD
- Traumatic Brain Injury
- Exposure to Agent Orange

TBI and dementia risk

Traumatic brain injury and risk of dementia in older veterans | Neurology

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## Thank you for Attending!

Please scan below to complete the evaluation and receive your CMEs

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