# Michael B. Friedman, Cognitive and Behavioral Health Advocacy

# COGNITIVE AND BEHAVIORAL HEALTH IN LATER LIFE National Demographic and Epidemiological Information

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**AUGUST 2022** 

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## FOREWORD: MEETING THE COGNITIVE AND BEHAVIORAL HEALTH CHALLENGES OF THE ELDER BOOM IN THE U.S.

- This document provides demographic and epidemiological background information for policymakers, advocates, journalists, and others who are concerned about the mental well-being of older adults during the "elder boom".
- Unfortunately, people with dementia, mental illnesses, and/or substance use problems and their families often do not get the services they need due to service shortages, limited access to services that exist, uneven quality of care, limited integration of services, limited continuity of care, workforce shortages, and more.
- Unmet cognitive and behavioral health needs can result in avoidable individual and family suffering as well as in premature death and disability, excessive institutionalization, and very high health care costs.
- To meet the cognitive and behavioral health needs of older adults it will be necessary to
  - Expand current services to keep pace with population growth
  - Take bold steps to improve services to overcome current service shortfalls.
- Keeping pace and improving care will depend on the availability of data to inform the planning and policy development. This document is a small step towards gathering the needed data.

We are grateful to AARP Maryland and AARP National for the resources and assistance they have provided to assemble this information book.

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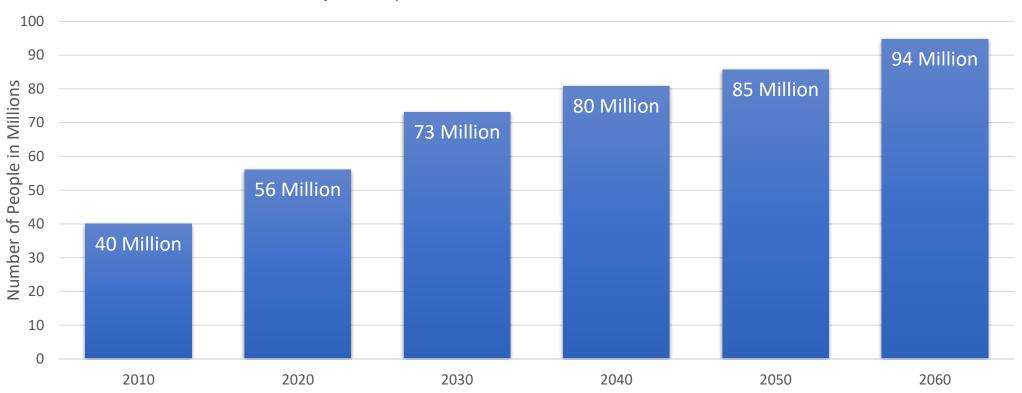
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# DEMOGRAPHIC DATA ABOUT THE AGING POPULATION OF THE U.S.

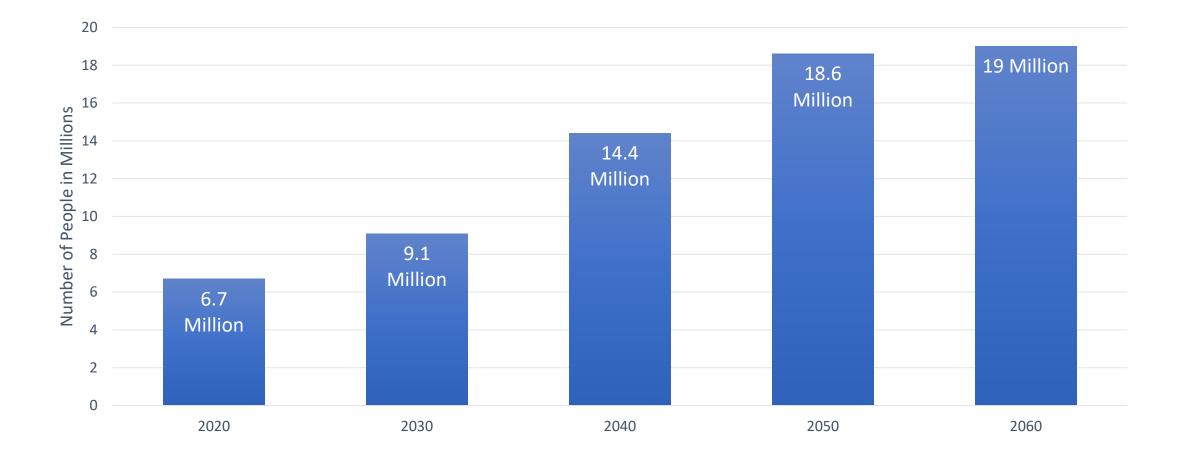
### From The Beginning Of The Elder Boom in 2011 To 2040 The Population Of Adults Ages 65+ In The U.S. Will Double



National Projected Population for Older Adults: 2010 to 2060

US Census Bureau (2017) National Population Projections Datasets. <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>

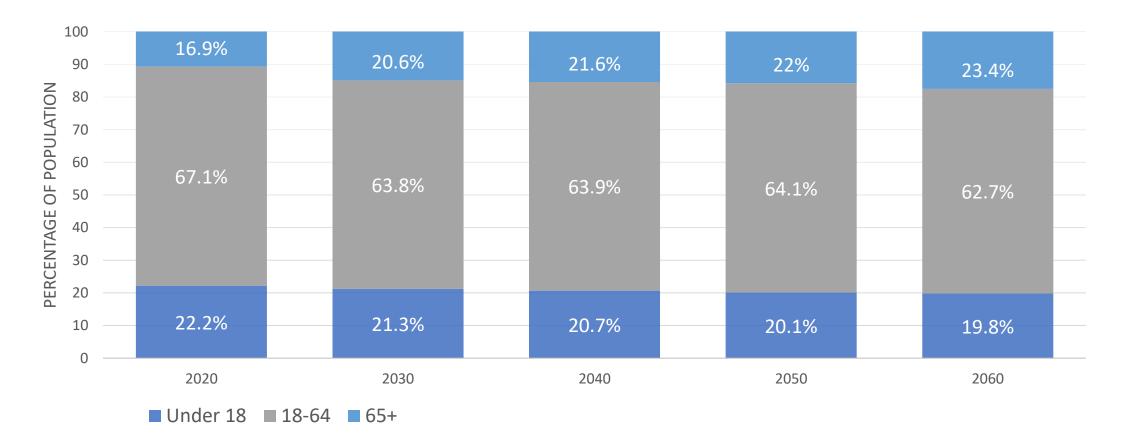
### The Population Of Adults 85+ Will Nearly Triple In The Next 30 Years



US Census Bureau (2017) Projected Population by Single Year of Age, Sex, Race, and Hispanic Origin for the United States: 2016 to 2060, National Population Projections Datasets, <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>

### Over The Next 40 Years, The Proportion Of Adults 65+ To Over 23% Exceeding The Proportion Of Children. Working Age Adults Will Decline 4.4%

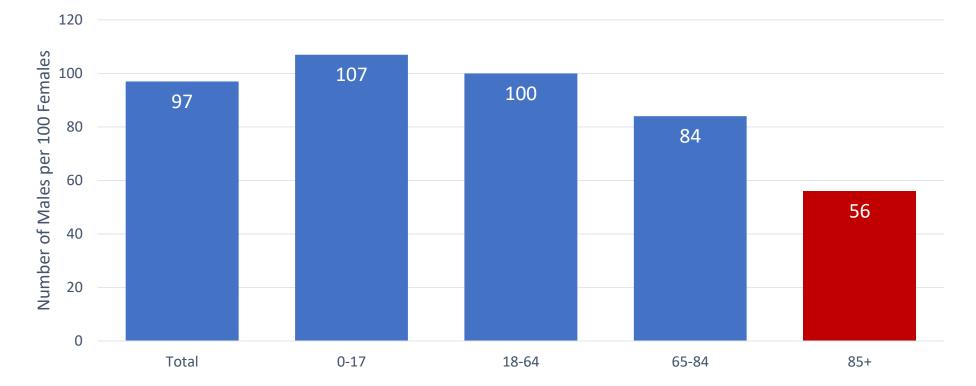
National Age Distribution of the U.S. Population: 2020-2060



US Census Bureau (2017) National Population Projections Datasets. <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>

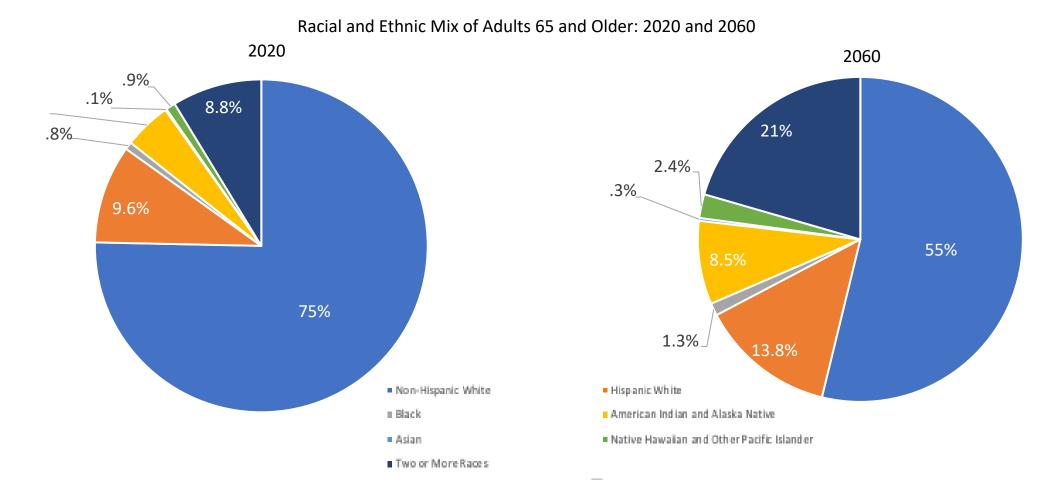
### The Number of Males per 100 Females Declines Sharply at Older Ages. For Those 85+ There Are Almost 2 Females Per Male

Ratio of Males to Females in the U.S.



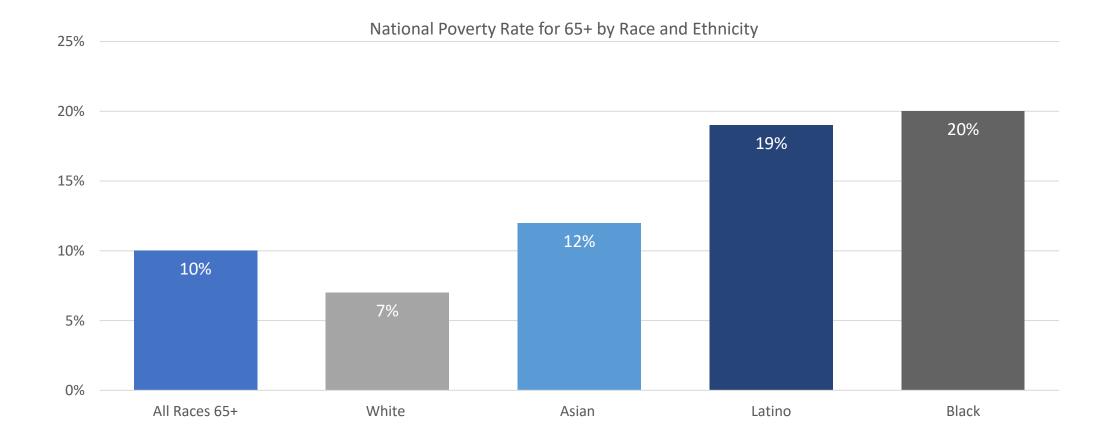
The U.S. population is growing older, and the gender gap in life expectancy is narrowing. PRB. (n.d.). Retrieved February 27, 2022.

# People Of Color Will Increase Over The Next 40 Years From About 24% To About 45% Of The 65+ Population



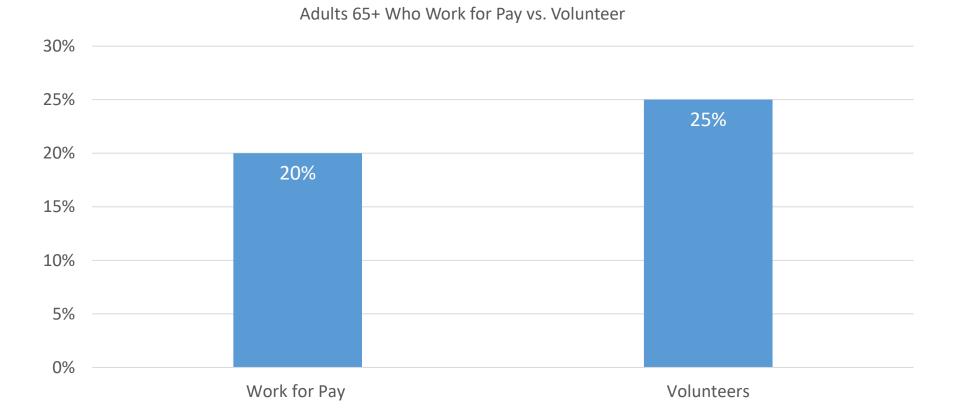
US Census Bureau (2017) 2017 National Population Projections Tables: Main Series. <u>https://www.census.gov/data/tables/2017/demo/popproj/2017-summary-tables.html</u>

### Approximately 10% Of Older Adults Live In Poverty, Varying From 7% For White Older Adults To 20% For Black Older Adults



Federal Interagency Forum on Aging-Related Statistics (2020), 2020 Older Americans Key Indicators of Well-Being. https://www.agingstats.gov/docs/LatestReport/OA20 508 10142020.pdf

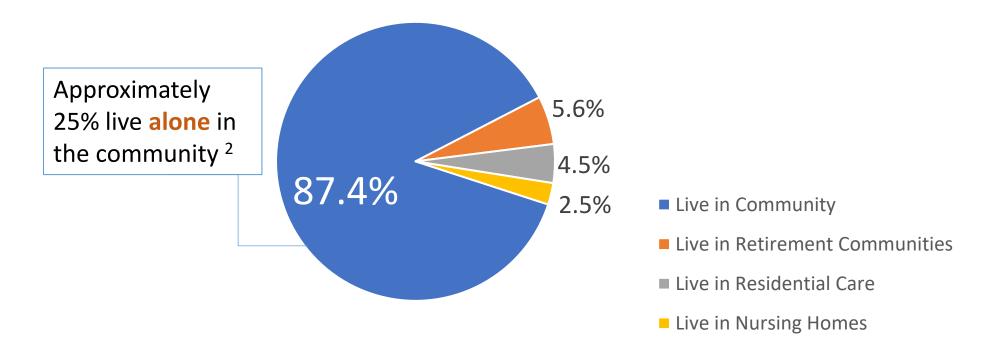
# 20% Of Older Adults Work For Pay <sup>1</sup> 25% Work As Volunteers,<sup>2</sup> With Numbers Growing



- 1. Edelson, H. (2019). "More Americans Past 65". AARP. April 22, 2019. More Americans Working or Looking for Work After 65 (aarp.org)
- 2. BLS Monthly Labor Review (July 2020) "Making Volunteer Work Visible: Supplementary Measures of Work in Labor Force Statistics" https://www.bls.gov/opub/mlr/2020/article/making-volunteer-work-visible-supplementary-measures-of-work-in-labor-force-statistics.htm

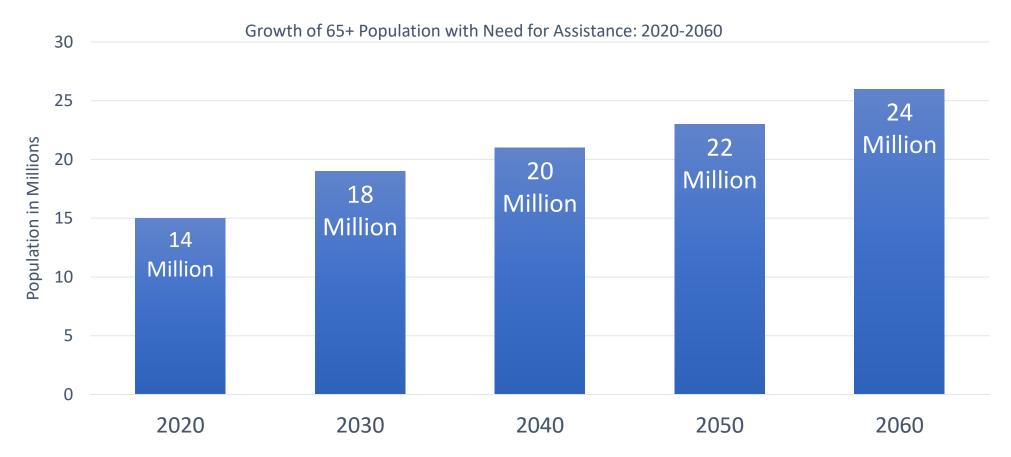
### The Vast Majority Of Older Adults Live In the Community

Living Arrangements of 65 and Over Population: 2016<sup>1</sup>



- 1. Freedman Vicki A., and Spillman, Brenda C. (2016). Making National Estimates with the National Health and Aging Trends Study. NHATS Technical Paper #17. Johns Hopkins University School of Public Health. <u>https://www.nhats.org/scripts/documents/Making\_National\_Population\_Estimates\_in\_NHATS\_Technical\_Paper.pdf</u>
- 2. U.S. Department of Health and Human Services. (2014, June). 65+ in the United States: 2010. https://www.census.gov/content/dam/Census/library/publications/2014/demo/p23-212.pdf

#### <u>About 25% Of Older Adults (50%+ of those 85+ ) Need Assistance With Daily Activities.</u> <u>They Will Increase By 10 Million (70%) Between 2020 And 2060</u>



1. Freedman, V. and Spillman, B. (2014). "Disability and Care Needs Among Older Adults" in *Milbank Quarterly*, September 2014. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4221755/</u>

2. US Census Bureau (2017) National Population Projections Datasets. https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html

### Family Caregivers Provide Most Care For Older Adults With Disabilities

# 80% of older adults in the community with long-term care support service needs receive care from unpaid (informal) caregivers.<sup>1</sup>

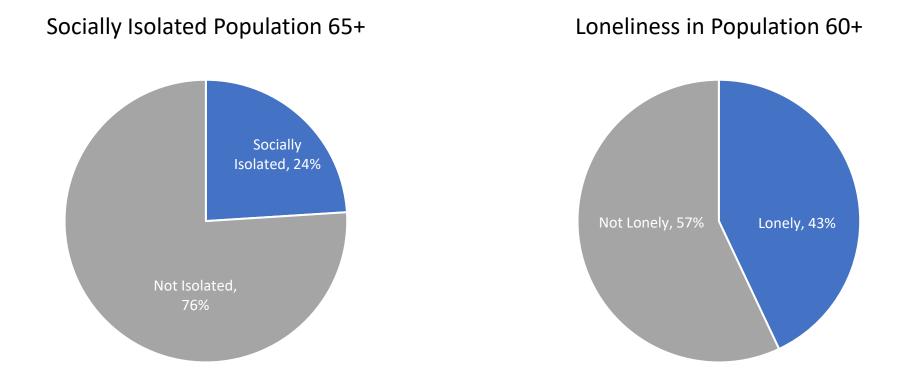
- In 2017, the national economic value of informal caregiving for older adults was estimated to be over \$470 billion annually.<sup>2</sup>
- In 2019, the average out-of-pocket spending for family caregivers was \$7,200 per year.<sup>2</sup>
- The estimated total cost of lost earnings was about \$67 billion in 2013. Due to population growth, these costs would roughly double by 2050.<sup>3</sup>
- Family caregivers are at high risk for mental and physical disorders. (See slide 47).

<sup>1.</sup> Assistant Secretary for Planning and Evaluation. (2020, January). *Economic Impacts of Programs to Support Caregivers*. Retrieved 11 13, 2021, from U.S. Department of Health and Human Services: <u>https://aspe.hhs.gov/sites/default/files/migrated\_legacy\_files//194136/EconImpact.pdf</u>

<sup>2.</sup> AARP and National Alliance for Caregiving. (2021, June). *Cargiving Out-of-Pocket Costs Study*. Retrieved 11 13, 2021, from AARP: https://www.aarp.org/content/dam/aarp/research/surveys\_statistics/ltc/2021/family-caregivers-cost-survey-2021.doi.10.26419-2Fres.00473.001.pdf

<sup>3.</sup> Mudrazija, S. (2019). "Work-Related Opportunity Costs Of Providing Unpaid Family Care In 2013 and 2050." *Health Affairs,* June 2019. https://www.healthaffairs.org/doi/10.1377/hlthaff.2019.00008

### About 1/4 Of Older Adults Are Socially Isolated More than 1/3 Are Lonely

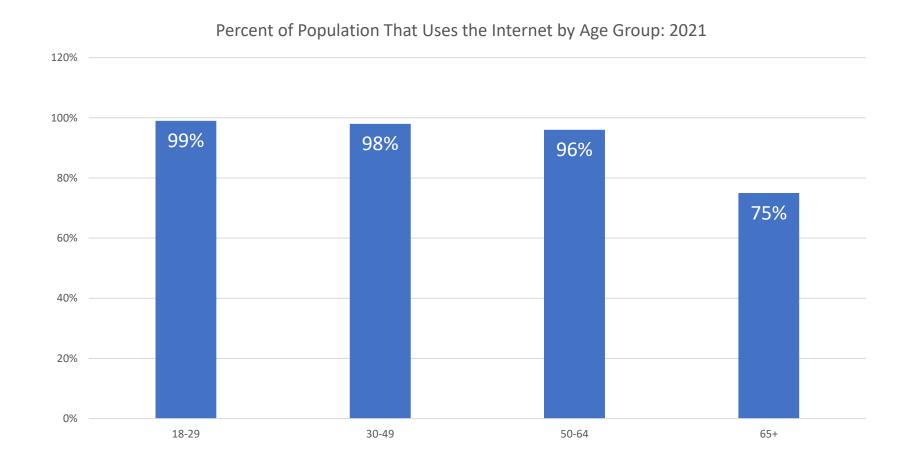


**Social isolation** – a lack of social connections. **Loneliness** – the feeling of being alone, regardless of the amount of social contact a person has. Social isolation can lead to loneliness in some people, but not in others.

#### Both contribute to physical and mental disorders, disability, and premature mortality. (see slide 46)

National Academies of Sciences, Engineering, and Medicine. (2020). Social isolation and loneliness in older adults: Opportunities for the health care system. Washington, DC: The National Academies Press.

### <u>Use Of The Internet, Which Is Widely Seen As An Antidote</u> <u>To Social Isolation, Decreases With Age</u>



Pew Research (2019). Internet/Broadband Fact Sheet. Retrieved from <u>https://www.pewresearch.org/internet/fact-sheet/internet-broadband/</u>

# <u>10-15% Of Older Adults In The U.S. Are Victims Of Mistreatment 1,2</u> <u>And At Elevated Risk For Psychological And Physical Conditions 1,2,3</u>

- Elder abuse, by definition, is committed by a person with caregiving responsibilities, including family members, home health aides, and long-term residential care staff.<sup>1</sup>
- Estimates of the amount of elder abuse vary. CDC estimates about 10%. WHO estimates over 15%.
- Elder abuse "can lead to early death, harm to physical and psychological health, substance misuse, ruptured social and family ties, social isolation, and/or devastating financial loss...." <sup>3</sup>

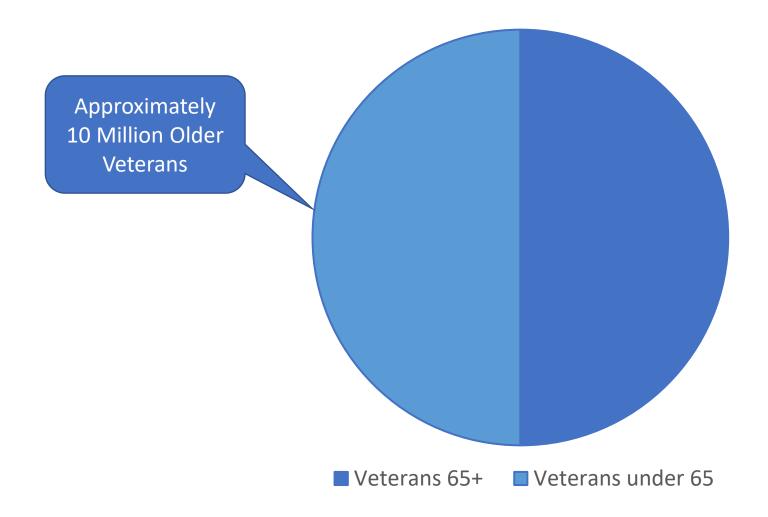
#### **Psychological Financial** Overall Neglect **Physical** Sexual Exploitation Mistreatment Abuse Abuse Abuse 15.7% 11.6% 6.8% 4.2% 2.6% .9%

WHO Rates of Elder Mistreatment<sup>2</sup>

Some older adults experience multiple forms of mistreatment.

- 1. Center For Disease Control (2021). "Elder Abuse Fast Fact Sheet." <u>https://www.cdc.gov/violenceprevention/elderabuse/fastfact.html</u>
- 2. World Health Organization (2021). "Elder Abuse Key Facts." https://www.who.int/news-room/fact-sheets/detail/elder-abuse
- 3. National Institute On Aging (2021). "Elder Abuse." U.S. Department Of Health & Human Services <u>https://www.nia.nih.gov/health/elder-abuse</u>

### About 50% Of Veterans In The U.S. Are 65+



Department Of Veterans Affairs (2018). "National Survey Of Veterans." National Center For Veteran Analysis And Statistics. https://www.va.gov/vetdata/

# COGNITIVE AND BEHAVIORAL HEALTH PROBLEMS OF LATER LIFE

### **There Are Various Types**

# **Of Cognitive and Behavioral Health Conditions**

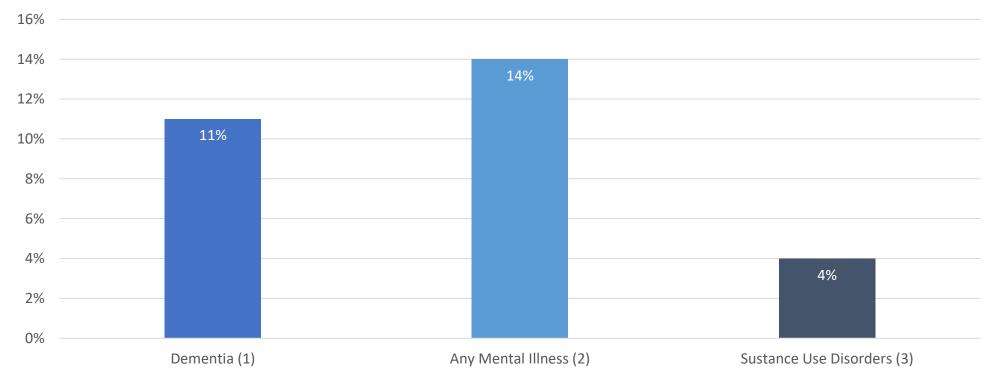
- Alzheimer's Disease and Other Dementias
- Severe and Persistent Mental Illness
- Late-life Psychotic Conditions
- Severe Anxiety and Depression
- Mild or Moderate Anxiety and Mood Disorders
- Substance Misuse
  - Misuse of alcohol, prescription drugs, and over-the-counter medication
  - Misuse of illegal substances
  - Addictions, including gambling
- Autism and Other Developmental Disabilities
- Lingering cognitive and psychological effects of illnesses, such as COVID, and injuries, such as traumatic brain injuries (TBI)
- Neuro-psychiatric Symptoms Associated with Neurodegenerative Disorders Such As Parkinson's Disease

# **Types Of Cognitive And Behavioral Health Conditions (Continued)**

- Co-Occurring Disorders
  - Behavioral Health With Acute and/or Chronic Physical Health Conditions
  - Dementia With Behavioral Health Disorders
  - Mental With Substance Use Disorders
  - Developmental Disabilities With Dementia and/or Behavioral Health Disorders
  - Other Neurodegenerative Conditions (such as ALS) With Behavioral Disorders
- Emotional Distress In Reaction to Adverse Life Events Such As The Pandemic
- Developmental Challenges of Old Age

# <u>Cognitive And Behavioral Health Disorders</u> <u>Are Highly Prevalent Among Older Adults</u>

Annual Rates of Cognitive and Behavioral Health Disorders



- 1. Alzheimer's Association. (2021). 2021 ALZHEIMER'S DISEASE FACTS AND FIGURES. Retrieved 11 01, 2021, from Alzheimer's Association: https://www.alz.org/media/documents/alzheimers-facts-and-figures.pdf
- Mental Health Information, Prevalence of Any Mental Illness. (2019). Retrieved 11 01, 2021, from National Institute of Mental Health: https://www.nimh.nih.gov/health/statistics/mental-illness#:~:text=Mental%20illnesses%20are%20common%20in,mild%20to%20moderate%20to%20severe
- Reynolds, K., Pietrzak, R. H., El-Gabalawy, R., Mackenzie, C. S., & Sareen, J. (2015). Prevalence of psychiatric disorders in U.S. older adults: findings from a nationally representative survey. Retrieved 11 01, 2021, from National Center for Biotechnology Information: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4329900/

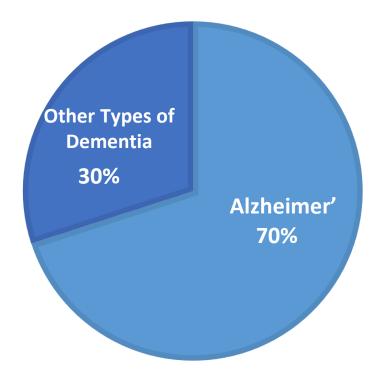
# **COGNITIVE IMPAIRMENT AND DEMENTIA**

# <u>Alzheimer's Disease And Other Dementias Are Characterized By</u> <u>Progressive Loss Of Memory And Other Cognitive Functions</u>

- Mild cognitive impairment with little dysfunction
- Early stage with some dysfunction
- Mid-stage with considerable dysfunction
- Late-stage with severe impairment of memory and cognition

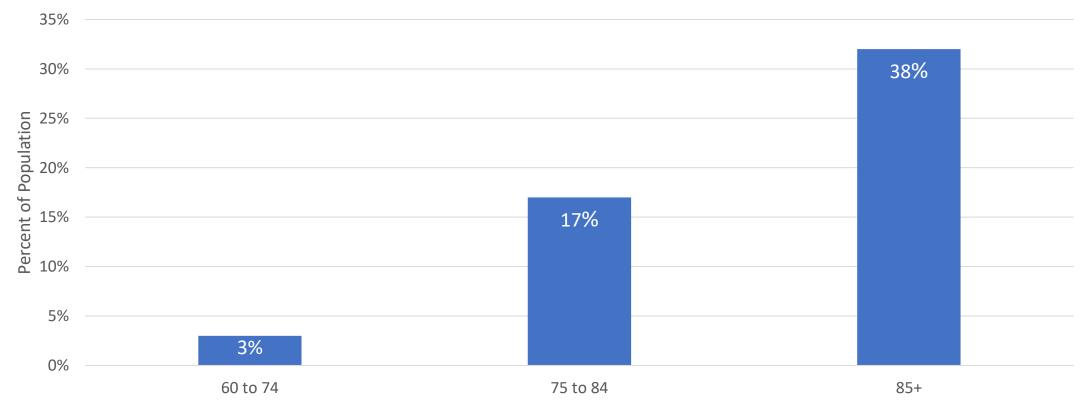
## <u>There Are Several Types Of Dementia:</u> <u>Alzheimer's Disease Is The Most Common</u>

- 5 most common types of dementia:
  - Mixed dementia (a combination of two or more types of dementia)
  - Alzheimer's disease
  - Frontotemporal dementia
  - Lewy body dementia
  - Vascular dementia
- Other conditions known to cause dementia/dementia-like symptoms:
  - Argyrophilic brain disease
  - Creutzfeldt-Jakob disease
  - Huntington's disease
  - Chronic traumatic encephalopathy (CTE)
  - HIV-associated dementia
  - Parkinson's disease



### **The Prevalence Of Dementia Increases With Age**

Annual Prevalence of Dementia Among Older Adults by Age

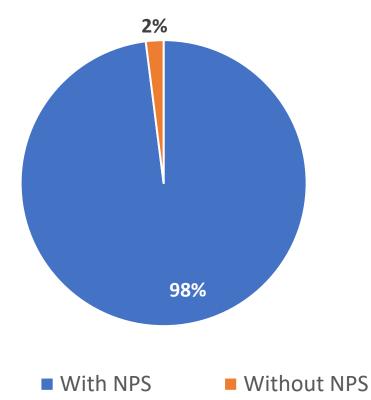


Plassman, B.L. et al. (2007). "Prevalence of Dementia in the United States: The Aging, Demographics, and Memory Study" *Neuroepidemiology*. <u>https://pubmed.ncbi.nlm.nih.gov/17975326/</u>

### **98% of People With Dementia**

### **Have Co-Occurring Symptoms of Behavioral Health Conditions**

People With Dementia and Neuropsychiatric Symptoms (NPS)



Phan, S. V., Osae, S., Morgan, J. C., Inyang, M., & Fagan, S. C. (2019, June). *Neuropsychiatric Symptoms in Dementia: Considerations for Pharmacotherapy in the USA*. Retrieved 11 02, 2021, from National Center for Biotechnology Information: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6544588/</u>

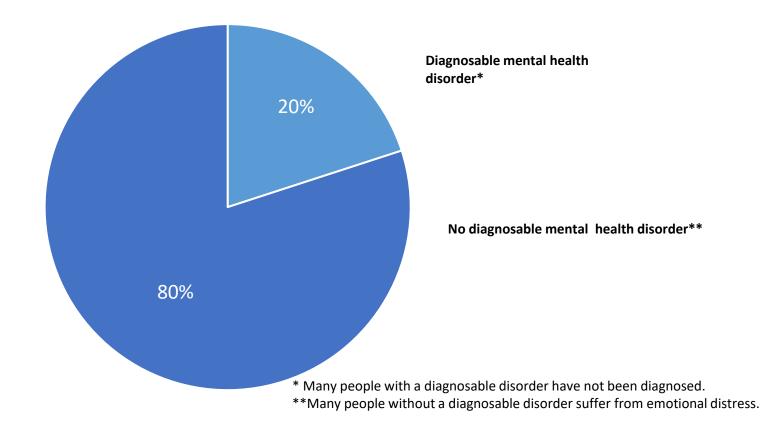
# **BEHAVIORAL HEALTH CONDITIONS**

### **There Are Various Types of Behavioral Health Disorders**

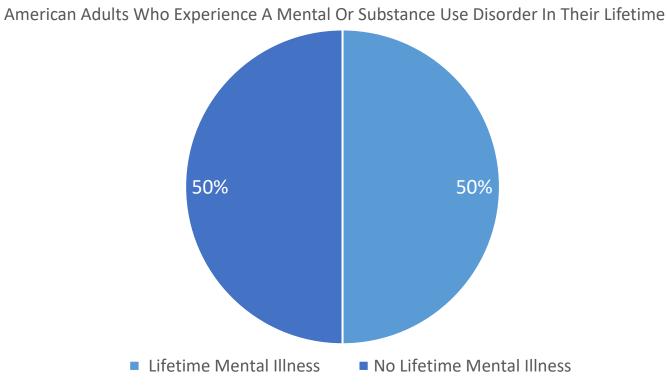
- Anxiety Disorders
- Depression and other mood disorders
- Psychoses
- Substance misuse and other addictions
  - Alcohol Overuse and Dependence
  - Medication Misuse
  - Misuse of illegal substances
  - Gambling

### Annually, Approximately 20% Of Older Adults 55+ Have A Mental Disorder

Proportion of Older Adults With or Without a Mental Health Disorder



### 50% Of American Adults Experience A Mental Or Substance Use Disorder In Their Lifetime



Kessler et al (2005). "Lifetime Prevalence and Age-of-Onset Distributions of DSM-IV Disorders in the National Comorbidity Survey Replication." Archives of General Psychiatry. June 2005. <u>https://pubmed.ncbi.nlm.nih.gov/15939837/</u>

## **There Are Various Types Of Mood & Anxiety Disorders**

#### MOOD DISORDERS

- Major Depressive Disorder
- Psychotic Depression
- Bipolar Disorder
- Persistent Depressive Disorder ("Dysthymia")
- Minor/Subsyndromal Depression
- Seasonal Affective Disorder
- Prolonged Grief

#### **ANXIETY DISORDERS**

- Generalized Anxiety Disorder
- Panic disorder
- Phobias
- Post Traumatic Stress
   Disorder
- Social Anxiety Disorder

- 1. Older Adults and Depression. (n.d.). Retrieved 11 05, 2021, from National Institute of Mental Health: <a href="https://www.nimh.nih.gov/health/publications/older-adults-and-depression?platform=hootsuite">https://www.nimh.nih.gov/health/publications/older-adults-and-depression?platform=hootsuite</a>
- 2. Depression. (2018, February). Retrieved 11 05, 2021, from National Institute of Mental Health: https://www.nimh.nih.gov/health/topics/depression
- 3. Anxiety Disorders. (2018, July). Retrieved 11 05, 2021, from National Institute of Mental Health: <u>https://www.nimh.nih.gov/health/topics/anxiety-disorders</u>

### Anxiety Disorders And Depression Are Highly Prevalent Among Older Adults

Anxiety Disorders <sup>1, 2</sup>	11.4%
Minor "Subsyndromal" Depression <sup>3,4</sup>	15%
Major Depressive Disorder Average <sup>1,2</sup>	4-5.6%

- Byers, A. L., Yaffe, K., Covinsky, K. E., Friedman, M. B., & Bruce, M. L. (2010, May). *High occurrence of mood and anxiety disorders among older adults: The National Comorbidity Survey Replication*. Retrieved 11 02, 2021, from National Center for Biotechnology Information: <a href="https://pubmed.ncbi.nlm.nih.gov/20439830/">https://pubmed.ncbi.nlm.nih.gov/20439830/</a>
- Reynolds, K., Pietrzak, R. H., El-Gabalawy, R., Mackenzie, C. S., & Sareen, J. (2015). Prevalence of psychiatric disorders in U.S. older adults: findings from a nationally representative survey. Retrieved 11 02, 2021, from National Center for Biotechnology Information: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4329900/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4329900/</a>
- 3. VanItallie, T. B. (2005, May). *Subsyndromal depression in the elderly: underdiagnosed and undertreated*. Retrieved 11 02, 2021, from National Center for Biotechnology Information: <u>https://pubmed.ncbi.nlm.nih.gov/15877312/</u>
- 4. Grabovich, A., Lu, N., Tang, W., Tu, X., & Lyness, J. M. (2010). *Outcomes of subsyndromal depression in older primary care patients*. Retrieved 11 02, 2021, from National Center for Biotechnology Information: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2827819/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2827819/</a>

### **Depression Is Not Normal In Old Age**

- Contrary to common belief, major depressive disorder (MDD) is less common in older adults than in younger adults.<sup>1</sup>
- However, older adults are more likely to experience symptoms of depression, and minor or subsyndromal depression may have as great impact on functioning as major depression.<sup>2</sup>
- Risk of depression is higher for older adults with chronic medical conditions or who are residents of long-term care facilities.<sup>3</sup>
- People with depression and a physical disorder are twice as likely to experience preventable hospitalization and to experience premature disability and/or mortality.

- 1. Byers, A. L., Yaffe, K., Covinsky, K. E., Friedman, M. B., & Bruce, M. L. (2010). High Occurrence of Mood and Anxiety Disorders among Older Adults: The National Comorbidity Survey Replication. Archives of General Psychiatry.
- 2. Blazer, DG (2003). Depression in late life: review and commentary. *Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*.
- 3. Himelhoch, S., Weller, W. E., Wu, A. W., Anderson, G. F., & Cooper, L. A. (2004). Chronic Medical Illness, Depression, and Use of Acute Medical Services Among Medicare Beneficiaries. Medical Care.
- 4. Fiske, A., Wetherell, J. L., & Gatz, M. (2009). Depression in Older Adults. Annual Review of Clinical Psychology.

# Major Anxiety And Depressive Disorders Can Have Serious Consequences

- Increased risk of dementia <sup>1</sup>
- Increased risk of disability and premature death due to physical illnesses <sup>2</sup>
- High rates of suicide <sup>2</sup>
- Problems in relationships, loneliness, and isolation <sup>2,3</sup>
- Reduced productivity <sup>2,3</sup>
- Reduced engagement in pleasurable and/or meaningful activities <sup>2, 3</sup>
- High rates of substance use disorders <sup>5,6</sup>
- Higher rates of nursing home admissions than those with dementia alone <sup>4</sup>
- 1. Byers, A. L., & Yaffe, K. (2011, May 3). *Depression and Risk of Developing Dementia*. Retrieved 11 06, 2021, from National Institutes of Health: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3327554/pdf/nihms-352655.pdf
- 2. Substance Abuse and Mental Health Services Administration. (2011). *The Treatment of Depression in Older Adults: Depression and Older Adults: Key Issues*. Retrieved 11 06, 2021, from Center for Mental Health Services, Substance Abuse and Mental Health Services Administration: <u>https://store.samhsa.gov/sites/default/files/d7/priv/sma11-4631-keyissues.pdf</u>
- 3. Friedman, M. B., Furst, L., Gellis, Z. D., & Williams, K. (2012). *Identifying and Treating Anxiety Disorders*. Retrieved 11 06, 2021, from Today's Geriatric Medicine: https://www.todaysgeriatricmedicine.com/archive/050712p14.shtml
- 4. Fullerton, C. A., McGuire, T. G., Feng, Z., Mor, V., & Grabowski, D. C. (2009, July). *Trends in mental health admissions to nursing homes: 1999–2005*. Retrieved 11 06, 2021, from National Institutes of Health: <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2759604/pdf/nihms-148155.pdf">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2759604/pdf/nihms-148155.pdf</a>
- 5. Goodwin, R. D., Stayner, D. A., Chinman, M. J., Wu, P., Kraemer Tebes, J., & Davidson, L. (2002, August). *The relationship between anxiety and substance use disorders among individuals with severe affective disorders*. Retrieved 11 13, 2021, from National Center for Biotechnology Information: <a href="https://pubmed.ncbi.nlm.nih.gov/12107861/">https://pubmed.ncbi.nlm.nih.gov/12107861/</a>
- Quello, S. B., Brady, K. T., & Sonne, S. (2005, December). Mood Disorders and Substance Use Disorder: A Complex Comorbidity. Retrieved 11 13, 2021, from National Center for Biotechnology Information: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2851027/</u>

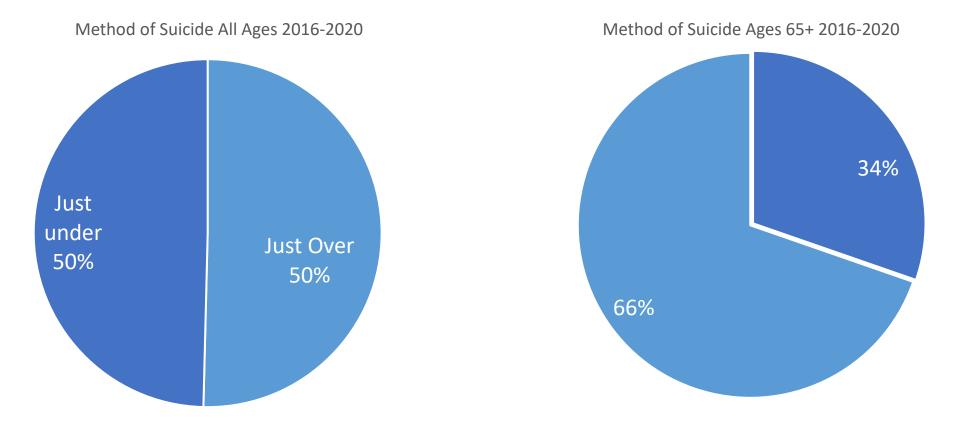
### From 2016-2020 The Rate of Suicide In The US Generally Increased With Age, Peaking In Men 85+

Rates of Suicide By Age in The U.S. 2016-2020 (Per 100,000)

<u>Age</u>	Suicide Rate	<u>Female Suicide</u> <u>Rate</u>	<u>Male Suicide Rate</u>
All Ages	14.33	6.14	22.77
15-24	14.06	5.67	22.07
25-39	17.59	7.31	27.64
40-49	18.50	9.09	28.06
50-64	19.22	9.31	29.71
65+	17.04	5.16	32.77
75+	18.84	4.07	39.87
85+	19.84	3.49	49.33

Source: Fatal Injury Reports. (2022). Retrieved 4/6/2022, from Centers for Disease Control and Prevention: https://wisgars.cdc.gov/fatal-reports

#### In 2020, 50% Of Completed Suicides Involved Guns But 2/3 Of Older Adults Who Completed Suicide Used Guns



FirearmsOther methods

Centers for Disease Control and Prevention (2022). "Fatal Injury Data and Visualization." Web-based Injury Statistics Query And Reporting System (WISQARS). <u>https://www.cdc.gov/injury/wisgars/fatal.html</u>

#### **People With Severe Mental Illness Are**

#### At High Risk For Serious Physical Disorders And Have Low Life Expectancy <sup>1</sup>

- People with severe mental illness are at high risk of serious physical health conditions and low life expectancy due to:
  - High rates of smoking, obesity, diabetes, and heart disease <sup>1, 2</sup>
  - High rates of substance abuse (about 50% lifetime)<sup>3</sup> ٠
  - Lingering effects of homelessness and crime victimization<sup>4</sup> ٠
  - Poor access to adequate physical health care <sup>5</sup> ٠
  - Behaviors and lifestyles that increase health risk <sup>6</sup>
  - High suicide rates (8.5 times the general population)<sup>7</sup>
- They are also at elevated risk for dementia.<sup>8</sup>
- People with severe mental illness often rely on special housing and on public income supports to be able to live in the community. 9
- World Health Organization (Undated). "Premature Death Among People With Severe Mental Disorders" info sheet.pdf (who.int) 1.
- Tam, J. et al (2016). "Smoking and the Reduced Life Expectancy of Individuals With Serious Mental Illness" in American Journal of Preventive Medicine, December 2016. Smoking 2. and the Reduced Life Expectancy of Individuals With Serious Mental Illness - PubMed (nih.gov)
- Menne, V. and Chesworth R. (2020). "Schizophrenia and Drug Addiction Co-Morbidity: Recent Advances in Our Understanding of Behavioral Susceptibility and Neural Mechanisms" 3. in Neuroanatomy and Behaviour, 2020. Schizophrenia and drug addiction comorbidity: recent advances in our understanding of behavioural susceptibility and neural mechanisms Neuroanatomy and Behaviour (epistemehealth.com)
- Newman, J. M., et al (2010). "Impact of Traumatic and Violent Victimization Experiences in Individuals With Schizophrenia and Schizoaffective Disorder" in The Journal of Nervous 4. and Mental Disease, October 2010. Impact of traumatic and violent victimization experiences in individuals with schizophrenia and schizoaffective disorder - PubMed (nih.gov)
- Bartels, S. J. (2004). "Caring for the Whole Person: Integrated Health Care for Older Adults with Severe Mental Illness and Medical Comorbidity" in Journal of the American 5. Geriatrics Society. Caring for the whole person: integrated health care for older adults with severe mental illness and medical comorbidity - PubMed (nih.gov)
- Yasami, M. T., et al (2014). LIVING A HEALTHY LIFE WITH SCHIZOPHRENIA: PAVING THE ROAD TO RECOVERY. World Mental Health Day 2014 Living with Schizophrenia. 6. http://www.who.int/mental health/world-mental-health-day/paper wfmh.pdf
- Pompili, M., et al (2007). Suicide risk in schizophrenia: Learning from the past to change the future. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1845151/ 7.
- Brown, M and Wolf, D. (2018). "Estimating the Prevalence of Serious Mental Illness and Dementia ..." in Research in Aging, August 2018. Smoking and the Reduced Life Expectancy 8. of Individuals With Serious Mental Illness - PubMed (nih.gov)
- Friedman, M et al (2019). "Schizophrenia in Later Life: Public Policy Issues in the United States". Chapter 18 in Cohen, C and Meesters, P. Schizophrenia and Psychoses in Later Life: 9. New Perspectives on Treatment, Research, and Policy. Cambridge University Press, 2019. Schizophrenia in Later Life PF.pdf (michaelbfriedman.com) 39

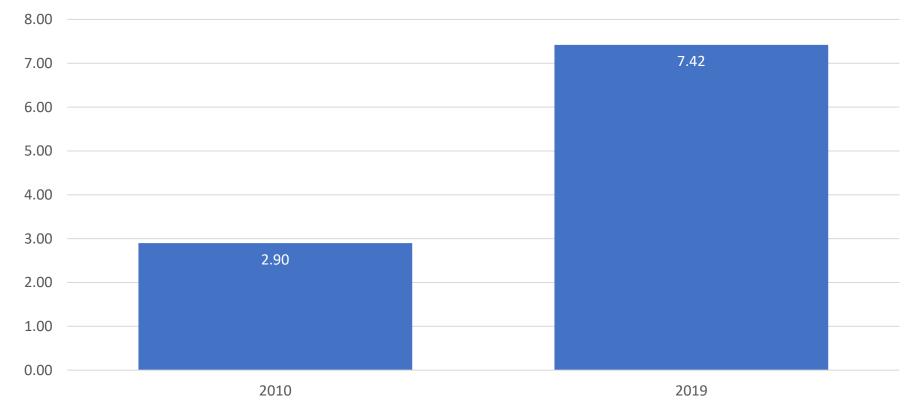
#### <u>Misuse Of Alcohol, Medications, And Illegal Substances</u> <u>Can Be Extremely Dangerous To Older Adults</u> 1, 2

- Nearly 1 million adults aged 65 and older live with substance use disorder as reported in 2018 data.<sup>7</sup>
- Approximately 14.5% of older adults consume more alcohol than is recommended by health authorities<sup>1</sup> with high risks of falls<sup>3</sup> and other accidents as well as physical illnesses.
- An estimated 3.6% to 7.2% of older adults age 50+ used illegal drugs between 2002-2012, including heroin, cocaine, methamphetamine and cannabis.<sup>1,4</sup>
- The drug overdose epidemic has impacted everyone of all ages and has not left the older adult population untouched.<sup>6</sup>

- Use of cannabis, the most commonly used "illegal" substance, is expected to rise due to relatively higher use by the baby boomer population and to the legalization of cannabis for medical and recreational purposes.<sup>2, 3</sup>
- Prescription opioids sometimes result in addiction, overdoses, and later heroin use.<sup>5</sup>
- The misuse of prescription and/or over-the-counter medications by older adults can result In injury, addiction, or death.<sup>1,4</sup>
- 1. Lehmann, S. W., & Fingerhood, M. (2018, December). *Substance-Use Disorders in Later Life*. Retrieved from New England Journal of Medicine: https://www.nejm.org/doi/10.1056/NEJMra1805981
- 2. Blanco, C., & Lennon, I. (2021). *Substance Use Disorders in Older Adults: Overview and Future Directions*. Retrieved 11 06, 2021, from American Society on Aging: https://generations.asaging.org/substance-use-disorders-older-adults-overview
- 3. Facts About Aging and Alcohol. (2017). Retrieved 11 06, 2021, from National Institute on Aging: https://www.nia.nih.gov/health/facts-about-aging-and-alcohol
- 4. Wu, L.-T., & Blazer, D. G. (2011, April). *Illicit and Nonmedical Drug Use Among Older Adults: A Review*. Retrieved 11 06, 2021, from National Institutes of Health: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3097242/pdf/nihms288551.pdf
- National Institute on Drug Abuse; National Institutes of Health; U.S. Department of Health and Human Services. (2018, January). Prescription Opioids and Heroin Research Report. Retrieved 11 06, 2021, from National Institute on Drug Abuse: <u>https://www.drugabuse.gov/download/19774/prescription-opioids-heroin-research-report.pdf?v=fc86d9fdda38d0f275b23cd969da1a1f</u>
- 6. Overdose Death Rates. (2021, January). Retrieved 11 06, 2021, from National Institute on Drug Abuse: <u>https://www.drugabuse.gov/drug-topics/trends-statistics/overdose-death-rates</u>
- 7. NIDA. (2020, July 9). *Substance Use in Older Adults DrugFacts*. Retrieved 11 23, 2021, from National Institutes of Health: <u>https://www.drugabuse.gov/publications/substance-use-in-older-adults-drugfacts</u>

#### In The U.S. From 2011 To 2020, The Rate Of Overdose Deaths Among Older Adults Rose 250%

Unintentional Drug Overdose Deaths Among U.S. Adults Aged 65+ Per 100,000 People: 2011 and 2020



Centers for Disease Control and Prevention (2021). "Fatal Injury Data and Visualization." Web-based Injury Statistics Query And Reporting System (WISQARS). <u>https://www.cdc.gov/injury/wisqars/fatal.html</u>

## <u>Traumatic Brain Injuries Contribute To The Development</u> <u>Of Cognitive and Behavioral Health Conditions</u>

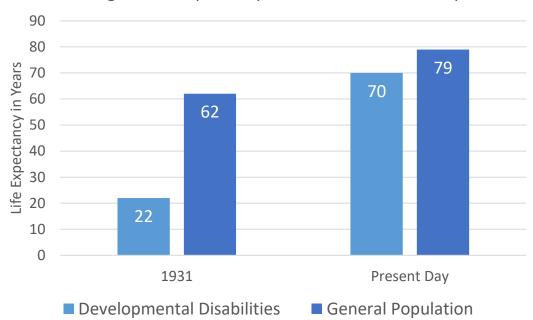
- The incidence of traumatic brain injury is increasing. <sup>1, 2, 3</sup>
- Traumatic brain injuries contribute to early development of dementia and other neurodegenerative disorders.<sup>4</sup>
- Traumatic brain injuries contribute to the development of mood and anxiety disorders including PTSD. <sup>5,6</sup>

- 1. Centers for Disease Control and Prevention. Traumatic Brain Injury and Concussion. 2016. <u>https://www.cdc.gov/traumaticbraininjury/data/index.html</u>.
- 2. Albrecht JS, Hirshon JM, McCunn M, et al. Increased rates of mild traumatic brain injury among older adults in US emergency departments, 2009-2010. *J Head Trauma Rehab*. 2016;31:E1-E7.
- 3. Taylor CA, Bell JM, Breiding MJ, Xu L. Traumatic brain injury-related emergency department visits, hospitalizations, and deaths: United States, 2007 and 2013. *MMWR Surveill Summ*. 2017.
- 4. LoBue C. et al. (2018) "Neurodegenerative Dementias After Traumatic Brain Injury" in *The Journal of Neuropsychiatry Clin Neurosci*
- 5. Albrecht JS, Peters ME, Smith GS, Rao V. Anxiety and posttraumatic stress disorder among medicare beneficiaries after traumatic brain injury. *J Head Trauma Rehab*. 2017;32:178-184.
- 6. Gardner RC, Dams-O'Connor K, Morrissey MR, Manley GT. Geriatric Traumatic Brain Injury: Epidemiology, Outcomes, Knowledge Gaps, and Future Directions. *J Neurotrauma*. 2018;35(7):889-906. doi:10.1089/neu.2017.5371

### <u>Many People With Developmental Disabilities</u> <u>Now Survive Into Old Age</u>

Historically, people with developmental disabilities died at younger ages.

- Recently, individuals with developmental disabilities have experienced a dramatic increase in lifespan.
- The average life expectancy for people with a developmental disability was 22 years in 1931, compared to 62 years for the general population.<sup>1</sup> Now, their average life expectancy is 70, which is approaching that of the general population, about 79 years in 2018. <sup>1, 2</sup>



Change in Life Expectancy from 1931 to Present Day

1. Association On Aging With Developmental Disabilities (2021). "About Us." <u>https://www.agingwithdd.org/about/</u>

2. Centers for Disease Control and Prevention: National Center for Health Statistics (2021). "Life Expectancy Fast Stats." <u>https://www.cdc.gov/nchs/fastats/life-expectancy.htm</u>

### Emotional Reactions To Adverse Life Circumstances, Including Social Determinants and Personal Trauma

**Emotional Reactions Include:** 

- Grief
- Fear for self or loved ones
- Loneliness/sense of isolation
- Economic dIstress
- Loss of a sense of control
- Sense of uncertainty
- Sense of helplessness
- Sadness and hopelessness
- Demoralization
- Apathy
- Anger

- Sense of bigotry and injustice
- Stress for working parents
- Stress for grandparents
- Stress for family caregivers
- Family tension and violence
- Overuse of alcohol and/or drugs
- Exacerbation of pre-existing mental conditions
- Sleep disturbance
- Eating disturbance
- Thoughts of suicide

### **Developmental Emotional Challenges Of Old Age**

- Retirement and other role changes
  - Finding meaningful activities
- Decreasing social connections and increasing social isolation as friends and family move away or die
  - Developing new relationships, including intimate relationships
- Dealing with loss and grief
- Living with declining physical and mental capabilities, with chronic health conditions, and with pain
- Tolerating increasing risk of dependency
- Reconciliation with one's past despite regrets and disappointments
- Coming to terms with the inevitability of death

<sup>1.</sup> Agronin, M. (2011). How We Age: A Doctor's Journey Into The Heart of Growing Old. Da Capo Press. <u>https://www.marcagronin.com/book/how-we-age/</u>

<sup>2.</sup> Erikson E. (1982). *The Life Cycle Completed.* WW Norton. <u>https://wwnorton.com/books/9780393317725</u>

<sup>3.</sup> Vaillant, G. (2002) Aging Well. Little, Brown. https://www.amazon.com/Aging-Well-Surprising-Guideposts-Development/dp/0316090077

#### <u>Co-occurring Disorders Are Highly Prevalent Among Older Adults, Contributing To</u> <u>Higher Rates of Disability, Premature Death, and High Medical Costs</u>

- Types of co-occurring conditions
  - Co-occurring dementia and neuro-psychiatric symptoms including depression and anxiety<sup>1,2</sup>
  - Co-occurring types of mental disorders, e.g., depression and anxiety<sup>3</sup>
  - Co-occurring mental and substance use disorders<sup>4</sup>
  - Co-occurring acute/chronic physical and behavioral health conditions<sup>5,6,7</sup>
- Older adults with co-occurring disorders are at high risk for premature disability and death <sup>8</sup>
- Older adults with co-occurring disorders require more care leading to high health care costs <sup>9</sup>
- 1. Lyketsos, C., et al. (2005). Population-Based Study of Medical Comorbidity in Early Dementia and "Cognitive Impairment, No Dementia (CIND)": Association With Functional and Cognitive Impairment: The Cache County Study. Retrieved 11 06, 2021, from The American Journal of Geriatric Psychiatry: <a href="https://www.ajgponline.org/article/S1064-7481(12)60933-6/fulltext">https://www.ajgponline.org/article/S1064-7481(12)60933-6/fulltext</a>
- 2. Onyike, C. U. (2016). Psychiatric Aspects of Dementia. Retrieved 11 13, 2021, from National Center for Biotechnology Information: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5390928/
- 3. Byers, A. L., Yaffe, K., Covinsky, K. E., Friedman, M. B., & Bruce, M. L. (2010). *High Occurrence of Mood and Anxiety Disorders Among Older Adults: The National Comorbidity Survey Replication*. Retrieved 11 06, 2021, from JAMA Psychiatry: <a href="https://jamanetwork.com/journals/jamapsychiatry/article-abstract/210776">https://jamanetwork.com/journals/jamapsychiatry/article-abstract/210776</a>
- 4. Bartels, S. J., Blow, F. C., Van Citters, A. D., & Brockmann, L. M. (2008). Dual Diagnosis Among Older Adults: Co-Occurring Substance Abuse and Psychiatric Illness. Retrieved 11 13, 2021, from Taylor & Francis Online: <a href="https://www.tandfonline.com/doi/pdf/10.1300/J374v02n03\_03?needAccess=true">https://www.tandfonline.com/doi/pdf/10.1300/J374v02n03\_03?needAccess=true</a>
- 5. Dual Diagnosis Among Older Adults: Co-Occurring Substance Abuse and Psychiatric Illness: Journal of Dual Diagnosis: Vol 2, No 3 (tandfonline.com)
- 6. El-Gabalawy, R., Mackenzie, C. S., Shooshtari, S., & Sareen, J. (2011). Comorbid physical health conditions and anxiety disorders: a population-based exploration of prevalence and health outcomes among older adults. Retrieved 11 07, 2021, from National Center for Biotechnology Information: <a href="https://pubmed.ncbi.nlm.nih.gov/21908055/">https://pubmed.ncbi.nlm.nih.gov/21908055/</a>
- 7. Mills, T. L. (2001, September). Comorbid depressive symptomatology: isolating the effects of chronic medical conditions on self-reported depressive symptoms among community-dwelling older adults. Retrieved 11 07, 2021, from National Center for Biotechnology Information: <u>https://pubmed.ncbi.nlm.nih.gov/11478537/</u>
- 8. Fiske, A., Loebach Wetherell, J., & Gatz, M. (2009). *Depression in Older Adults*. Retrieved 11 07, 2021, from Annual Reviews of Clinical Psychology: https://www.annualreviews.org/doi/pdf/10.1146/annurev.clinpsy.032408.153621

9. Wammes, J., van der Wees, P., Tanke, M., & et al. (2018). *Systematic review of high-cost patients' characteristics and healthcare utilisation*. Retrieved 11 13, 2021, from BMJ Open: https://bmjopen.bmj.com/content/bmjopen/8/9/e023113.full.pdf

#### Despite Common Emotional Challenges In Old Age, Psychological Well-Being Is The Norm And Older Adults Are Often A Resource Rather Than A Burden<sup>1, 2</sup>

- Personality traits that support well-being include: a positive attitude, optimism, adaptability, and resilience.
- Satisfying social relationships are a key element of well-being.
- Engaging activities that provide pleasure and/or meaning are also key to well-being
  - Grandparenting
  - Volunteering or working for pay
  - Civic/political activity
  - Creative arts
  - Self-improvement: education, hobbies including sports
- A sense of self-worth is a key element of psychological well-being.
- Self-care: exercise, eating well, sleeping well
- Complementary practices: yoga, meditation, and the like
- 1. Friedman, M. B., Furst, L., & Williams, K. (2015, February). *Physicians Promote Successful Aging*. Retrieved 11 15, 2021, from Today's Geriatric Medicine: <u>https://www.todaysgeriatricmedicine.com/archive/0115p20.shtml</u>

<sup>2.</sup> Jeste, D. V., Depp, C. A., & Vahia, I. V. (2010, June). *Successful cognitive and emotional aging*. Retrieved 11 15, 2021, from National Center for Biotechnology Information: <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2912035/</u>

# POPULATIONS AT HIGH RISK OF COGNITIVE AND BEHAVIORAL HEALTH CONDITIONS

#### The COVID-19 Pandemic Highlighted The Psychological Vulnerability Of Many Older People

- Although fewer older adults report emotional distress in response to the pandemic than younger adults, nearly ½ report significant levels of distress and ¼ report symptoms of depression or anxiety disorders.
- Especially vulnerable older adults include but are not limited to:
  - Those with dementia and/or other disabilities
  - Those with pre-existing serious and persistent mental illness
  - Those with substance use disorders
  - Those in long-term residential care
  - Those confronting severe illness or death
  - Those in social isolation
  - Older adults who are Black, Indigenous, and/or People of color
  - People living in economic instability
  - Informal caregivers

Koma W. et al. (2020). "One in Four Older Adults Report Anxiety or Depression Amid the COVID-19 Pandemic." Kaiser Family Foundation, October, 2020. https://www.kff.org/medicare/issue-brief/one-in-four-older-adults-report-anxiety-or-depression-amid-the-covid-19-pandemic/

# Loneliness And Social Isolation Increase Risks Of Physical, Cognitive, And/Or Behavioral Health Disorders

- Social isolation significantly increases a person's risk of premature death from all causes, a risk that
  may rival those of smoking, obesity, and physical inactivity.<sup>1</sup>
- Social isolation is associated with about a 50% percent increased risk of dementia.<sup>1</sup>
- Loneliness is associated with higher rates of depression, anxiety, and suicide.
- Poor social relationships are associated with a 29% increased risk of heart disease and a 32% increased risk of stroke.<sup>1</sup>
- Loneliness among heart failure patients is associated with a nearly 4 times increased risk of death, 68% increased risk of hospitalization, and 57% increased risk of emergency department visits.<sup>1</sup>
- 1. CDC November 2020 https://www.cdc.gov/aging/publications/features/lonely-older-adults.html
- 2. National Academies of Sciences, Engineering, and Medicine. *Social Isolation and Loneliness in Older Adults: Opportunities for the Health Care System*. Washington, DC: The National Academies Press. <u>https://doi.org/10.17226/25663external.icon</u> 2020,

# Family Caregivers Of People With Mental Disabilities Are At High Risk For Anxiety Disorders, Depression, And Burn-Out

- Family members and friends provide basic care for people with
  - Dementia
  - Psychiatric Disabilities Due to Severe Mental Illness
  - Autism and Other Developmental Disabilities
- Informal caregivers are at high risk for depression, anxiety disorders, physical ailments and burn-out, resulting in premature institutionalization.
- Their ability to provide care diminishes as they age, particularly if they become disabled themselves.

Family Caregiver Alliance (2006). Caregiver Health. <u>https://www.caregiver.org/resource/caregiver-health/</u>

### <u>Cognitive And Behavioral Health Disorders Are Highly Prevalent</u> <u>In Nursing Homes And Assisted Living Facilities</u>

- Nursing Homes 1, 2, 3
  - About 2/3 of nursing home residents are cognitively impaired.
  - Most of those with cognitive impairment also have neuropsychiatric symptoms.
  - Many nursing home residents have a primary diagnosis of serious mental illness.
- Assisted Living Facilities 4, 5
  - About 2/3 of those in assisted living have some dementia, most with co-occurring neuropsychiatric symptoms.
  - Over 20% have a psychiatric disorder other than dementia or cognitive impairment.
- 1. Seitz, D. et al. (2010). "Prevalence Of Psychiatric Disorders Among Older Adults In Long-Term Care Homes: A Systematic Review." International Psychogeriatrics. November 22, 2010. <u>https://pubmed.ncbi.nlm.nih.gov/20522279/</u>
- 2. Gaughler, J. et al (2014). "Alzheimer's Disease and Nursing Homes" in *Health Affairs* April 2014 <u>Alzheimer's Disease And Nursing Homes | Health Affairs</u>
- 3. Centers for Disease Control. National Center for Health Statistics. (2019). Long-term Care Providers and Users In the United States 2015-2016: Analytical and Epidemiological Studies.
- 4. Rosenblatt R. et al. (2004). "The Maryland Assisted Living Study: Prevalence, Recognition, And Treatment Of Dementia And Other Psychiatric Disorders In The Assisted Living Population Of Central Maryland." <u>http://www.hopkinsmedicine.org/Press\_releases/2004/10\_04c\_04.html</u>
- 5. Zimmerman, S. et al (2014). "Dementia Prevalence and Care in Assisted Living" in Health Affairs, April 2014. Dementia Prevalence And Care In Assisted Living | Health Affairs

#### Black And Latino Older Adults Are At Higher Risk Of Developing Dementia <sup>1</sup> They Also Have More Limited Access To Behavioral Health Services <sup>2</sup>

#### • Dementia

- Black older adults are about two times, and Latinos are about one and one-half times, more likely than Whites to have Alzheimer's and other dementias.
- Although the rate of Alzheimer's and other dementias among Black and Latino older adults is higher than among Whites, they are less likely than Whites to have a diagnosis of the condition.
- Physical conditions, such as high blood pressure and diabetes, rather than genetic factors appear to account for the greater prevalence of Alzheimer's among Black and Latino older adults.
- It is likely that improved access to high quality health care could reduce the prevalence of dementia among Black and Latino older adults.

#### Mental and Substance Use Disorders

- Rates of mental illnesses among Black Americans are similar with those of the general population. Rates for Latino-Americans is somewhat lower. However, both Latinos and Blacks generally receive poorer quality of care that White non-Hispanics and lack access to culturally competent care.
- Rates of substance use disorders among these populations are about the same as White non-Hispanics. Studies of disparities in the use of public behavioral health services reveal complex patterns of use and completion of services that vary by race, ethnicity, and socio-economic status.<sup>3</sup>

2. American Psychiatric Association Mental Health Disparities

3. https://academic.oup.com/innovateage/article/4/6/igaa051/5939962

<sup>1.</sup> Alzheimer's Association (2020) "Race, Ethnicity, and Alzheimer's" An Alzheimer's Impact Movement Fact Sheet. Race, Ethnicity, and Alzheimer's

#### **Poverty Is Associated With Increased Risk Of Dementia, Mental Illness, and Suicide**

- Poverty is associated with increased risk of dementia. There may be intervening variables such as
  poor diet and loss of control of finances due to dementia.<sup>1,2</sup>
- People living in poverty are at higher risk for developing mental illness, and people with mental illness are at higher risk of becoming impoverished, a "vicious cycle".<sup>2</sup>
- People living in neighborhoods with high rates of poverty have less access to physical and behavioral health care.<sup>3</sup>
- Mental illness is associated with lower levels of household income. <sup>4</sup>
- "Suicide rates in the U.S. are closely correlated to poverty rates" <sup>5</sup>
- 1. Powell, W.R. et al. (2020). "Association of Neighborhood-Level Disadvantage With Alzheimer Disease Neuropathology" in JAMA Network Open, 3(6). <u>https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2767007</u>
- 2. Samuel, L. et al (2020). "Socioeconomic disparities in six-year incident dementia in a nationally representative cohort of U.S. older adults: an examination of financial resources" in BMC Geriatrics, May 2020.
- 3. Simon K.M. et al. (2018). "Addressing Poverty and Mental Illness" in *Psychiatric Times*, 35(6). https://www.psychiatrictimes.com/view/addressing-poverty-and-mental-illness
- 4. Sareen, et al. Relationship Between Household Income and Mental Disorders Findings From a Population-Based Longitudinal Study
- 5. Kerr, et al. Economic Recession, Alcohol, and Suicide Rates: Comparative Effects of Poverty, Foreclosure, and Job Loss

# Women Are At Higher Risk Than Men For Some (But Not All) **Cognitive and Behavioral Health Disorders**

- As they age, women become more at risk of social isolation than men.<sup>1</sup>
- Women are at higher risk of dementia than men and of faster decline after diagnosis<sup>2</sup>
- Women are at higher risk than men of anxiety and depression but of lower risk of substance use disorders.<sup>3</sup>
- Women are 1.75 times more likely than men to attempt suicide. <sup>4</sup>
- Older men are almost 5 x more likely to complete suicide than are women.<sup>5</sup>

1. The Health and Medical Dimensions of Social Isolation and Loneliness in Older Adults. Nationalacademies.org. (n.d.). Retrieved February 27, 2022, from https://www.nationalacademies.org/our-work/the-health-and-medical-dimensions-of-social-isolation-and-loneliness-in-older-adults

2. Beam, C. R., Kaneshiro, C., Jang, J. Y., Reynolds, C. A., Pedersen, N. L., & Gatz, M. (2018). Differences between women and men in incidence rates of dementia and alzheimer's disease. Journal of Alzheimer's Disease, 64(4), 1077–1083.

3. Eaton, N. R., Keyes, K. M., Krueger, R. F., Balsis, S., Skodol, A. E., Markon, K. E., Grant, B. F., & Hasin, D. S. (2012). An invariant dimensional liability model of gender differences in mental disorder prevalence: evidence from a national sample. Journal of abnormal psychology, 121(1), 282–288. https://doi.org/10.1037/a0024780

4. SAMHSA. (2019). 2019 National Survey of Drug Use and Health (NSDUH) releases. SAMHSA. Retrieved February 27, 2022, from https://www.samhsa.gov/data/release/2019-nationalsurvey-drug-use-and-health-nsduh-releases

5. Centers for Disease Control and Prevention. (2021, December 2). WISQARS (web-based injury statistics query and reporting system)/injury center/cdc. Centers for Disease Control and Prevention. Retrieved February 27, 2022, from https://www.cdc.gov/injury/wisqars/index.html

#### Older Adults Are At High Risk For Trauma Which Increases Risks for Dementia and Mental Disorders

- 10-15% of older adults are victims of elder abuse <sup>1, 2</sup>
- Many older adults experience other forms of trauma, such as injuries from falls and deaths of loved ones <sup>3</sup>
- Traumatic experiences in old age can result in PTSD and other anxiety and mood disorders <sup>3</sup>
- PTSD contributes to the development of dementia and vice versa.<sup>4</sup>
- People with dementia are at increased risk of elder abuse.<sup>5</sup>

1. Centers for Disease Control and Prevention. (2021, June 2). *Elder abuse/violence prevention/injury Center/CDC*. Centers for Disease Control and Prevention. Retrieved February 27, 2022, from https://www.cdc.gov/violenceprevention/elderabuse/index.html

2. World Health Organization (2021). "Elder Abuse Key Facts." <u>https://www.who.int/news-room/fact-sheets/detail/elder-abuse</u>

3. Kusmaul, N. and Anderson, K (2018). "Applying a Trauma-Informed Perspective to Loss and Change in the Lives of Older Adults" in *Social Work in Health Care*, March 2018. <u>https://www.tandfonline.com/doi/10.1080/00981389.2018.1447531</u>

4. Desmarais, P., & Weidman, D. (2019, August 9). *The Interplay Between Post-traumatic Stress Disorder and Dementia: A Systematic Review*. The American Journal of American Psychiatry. Retrieved February 27, 2022, from https://www.ajgponline.org/article/S1064-7481(19)30469-5/fulltext

5. Dong, et al. (2014, April 1). Elder abuse and dementia: A review of the Research and Health Policy: Health Affairs Journal. Health Affairs. Retrieved February 27, 2022, from

https://www.healthaffairs.org/doi/full/10.1377/hlthaff.2013.1261#:~:text=Physical%20abuse%20was%20estimated%20to,greater%20levels%20of%20cognitive%20im pairment.

## <u>Veterans Are At Significant Risk Of Complex, Co-Occurring</u> <u>Physical, Cognitive, And Behavioral Disorders</u>

- Older veterans have co-occurring medical, mental health, and substance use disorders, and cognitive impairments more frequently than younger veterans.<sup>1</sup>
- Rates of post-traumatic stress disorder (PTSD) are highest among Vietnam-era veterans.<sup>1</sup>
- In 2018, the rate of suicide among veterans was 32.0 per 100,000, compared with 17.2 per 100,000 for nonveterans.<sup>2</sup>
- Alcohol and substance use disorders are more common among veterans than non-veterans and frequently co-occur with mental disorders, especially PTSD.
- Despite higher rates of PTSD, older veterans are less likely to seek mental health services, than younger veterans.<sup>1</sup>
- This willingness to seek services will likely continue as this cohort ages and will require a system designed to support the increased care needs of the aging veteran population.<sup>1</sup>
- 1. O'malley, K. et al. (2019). "Mental Health and Aging Veterans: How the Veterans Health Administration Meets the Needs of Aging Veterans" *Public Policy & Aging Report*. <u>https://academic.oup.com/ppar/article/30/1/19/5687922</u>
- Ramchand, R. (2021). "Suicide Among Veterans: Veterans' Issues in Focus" RAND Corporation. <u>https://www.rand.org/pubs/perspectives/PEA1363-</u> <u>1.html</u>
- 3. National Institute on Drug Abuse (2019). Substance Use and Military Life Drug Facts. <u>https://www.drugabuse.gov/publications/drugfacts/substance-use-military-life</u>

### Older LGBTQ+ Are

### Less Likely To Be Diagnosed And Treated For Cognitive Impairment And At Higher Risk For Behavioral Health Disorders

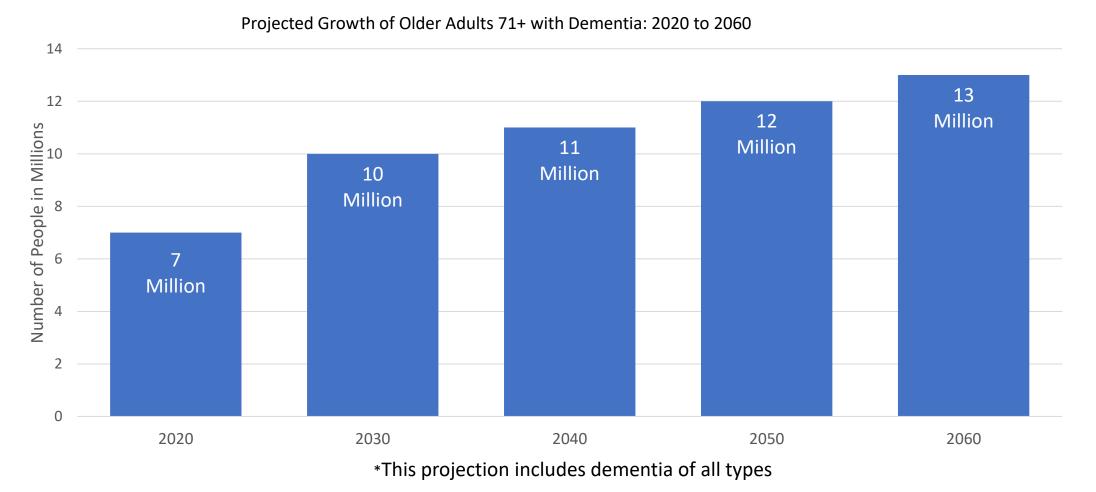
- Older LGBTQ+ individuals are more likely to experience emotional distress leading to anxiety, depression and substance use due to lifetime exposure to stigma and discrimination.<sup>1</sup>
- Older LGBTQ+ individuals are less likely to get adequate cognitive and behavioral health care including culturally competent diagnosis and treatment.<sup>3</sup>
- Older LGBTQ+ individuals are less likely to receive informal caregiving due to being less likely to have children and having smaller social support networks.<sup>2, 3</sup>
- Outcomes vary greatly depending on geography, race, economic status, education and specific sexual and gender identities.

There are **2.7 Million** LGBTQ+ Adults over the age of 50 in the US.<sup>2</sup>

- 1. King, S., & Richardson, V. (2017). ResearchGate (1st ed., Vol. 37). Annual Review of Gerontology and Geriatrics.
- 2. SAGE. (2018, August 14). Issues brief: LGBTQ+ and dementia. SAGE. Retrieved April 18, 2022, from https://www.sageusa.org/resource-posts/issues-brief-lgbtand-dementia/
- 3. Fredriksen-Goldsen, K. I., Jen, S., Bryan, A., & Goldsen, J. (2018). Cognitive Impairment, Alzheimer's Disease, and Other Dementias in the Lives of Lesbian, Gay, Bisexual and Transgender (LGBT) Older Adults and Their Caregivers: Needs and Competencies. *Journal of applied gerontology : the official journal of the Southern Gerontological Society*, *37*(5), 545–569. https://doi.org/10.1177/0733464816672047

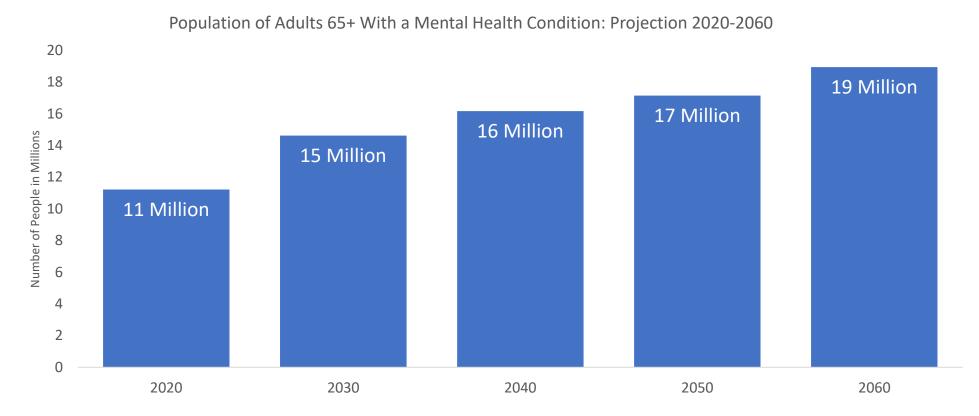
# PROJECTED GROWTH OF OLDER ADULTS WITH COGNITIVE AND/OR BEHAVIORAL HEALTH CONDITIONS

#### Adults 71+ With Dementia\* Will Nearly Double Unless There Is A Breakthrough In Prevention Or Treatment



Alzheimer's Association (2020). "Alzheimer's Disease Facts and Figures." https://alz-journals.onlinelibrary.wiley.com/doi/full/10.1002/alz.12068

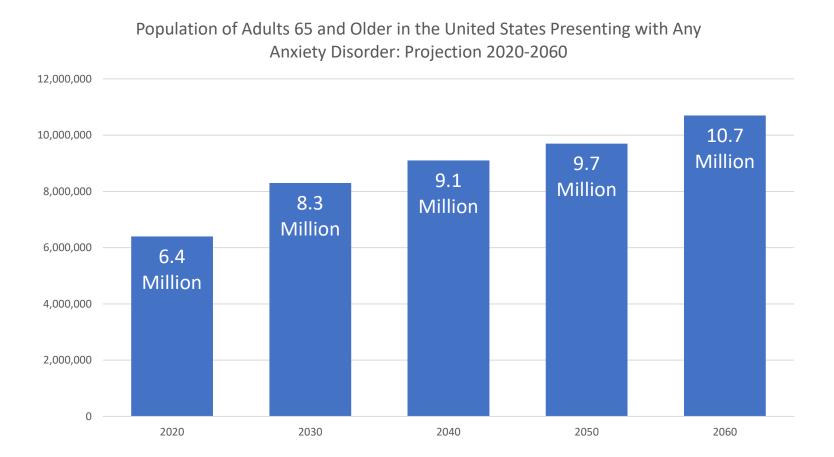
## <u>The Number Of Adults 65+ With A Behavioral Health</u> <u>Condition Will Increase By 4 Million Over The Next Decade</u>



1. WHO. (2017, December 12). Mental health of older adults. *World Health Organization*. Retrieved from <a href="https://www.who.int/news-room/fact-sheets/detail/mental-health-of-older-adults">https://www.who.int/news-room/fact-sheets/detail/mental-health-of-older-adults</a>

2. Kessler RC, Wang PS. The descriptive epidemiology of commonly occurring mental disorders in the United States. *Annu Rev Public Health*. 2008;29:115-129. doi:10.1146/annurev.publhealth.29.020907.090847

#### <u>The Number Of Older Adults With Anxiety Disorders In The U.S.</u> <u>Will Grow By 1.9 million Over The Next Decade</u>

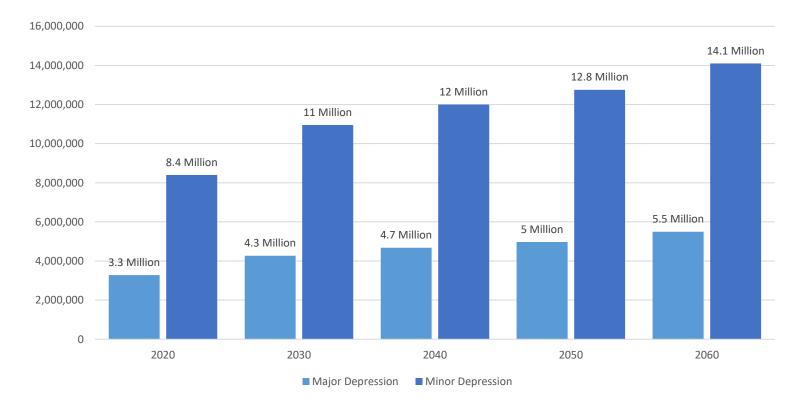


1. US Census Bureau (2017) National Population Projections Datasets. <u>https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html</u>

2. Reynolds K. et al (2015). "Prevalence of Psychiatric Disorders In U.S. Older Adults: Findings From A Nationally Representative Survey" *World Psychiatry*, February 2015.

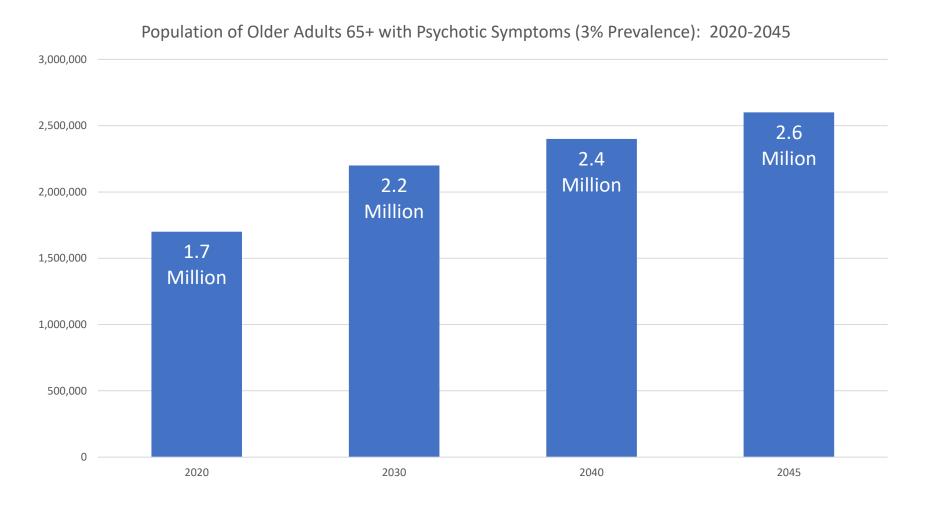
#### From 2020 To 2040 In The U.S. The Number Of Older Adults With Major Or Minor (Subsyndromal) Depression Will Nearly Double

Population of Adults 65 and Older in the United States Presenting with Major or Subsyndromal Depression: Projection 2020-2060



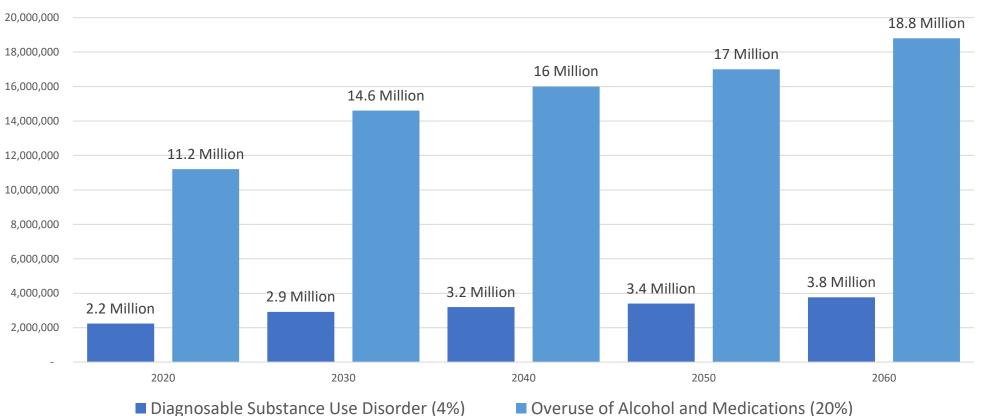
- 1. Byers, A et al (2010). "High Occurrence of Mood and Anxiety Disorders Among Older Adults: The National Comorbidity Survey Replication" in Archives of General Psychiatry, May 2010.
- 2. Reynolds K. et al (2015). "Prevalence of Psychiatric Disorders In U.S. Older Adults: Findings From A Nationally Representative Survey" World Psychiatry, February 2015.
- 3. Vanltallie, T. (2005). "Subsyndromal depression in the elderly: underdiagnosed and undertreated" in Metabolism

#### During The Next Decade In The U.S. The Population Of Older Adults 65+ With Psychotic Conditions Will Increase By 500,000 (Over 30%)



1. Cohen, C and Meesters, P (2019). "Schizophrenia And Psychoses In Later Life: New Perspectives On Treatment, Research, and Policy." Cambridge University Press. https://pubmed.ncbi.nlm.nih.gov/26360087/

#### <u>During The Next Decade In The U.S. The Number Of People 65+ With Substance Use</u> <u>Disorders Or Who Misuse Alcohol, Medications, or Illegal Substances Will Grow About 30%</u>



United States Population of Adults Ages 65+ Overusing Alcohol and Other Substances

1. Lehmann, S. and Fingerhood, M. (2018). "Substance Use In Later Life." New England Journal of Medicine. <u>https://pubmed.ncbi.nlm.nih.gov/30575463/</u>. Dec 13, 2018.

2. US Census Bureau (2017) National Population Projections Datasets. https://www.census.gov/data/datasets/2017/demo/popproj/2017-popproj.html

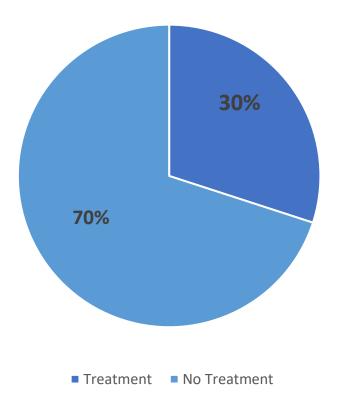
# ACCESS TO QUALITY CARE AND TREATMENT REMAINS INADEQUATE

#### **Older Adults With Cognitive Impairment Have Extensive Unmet Needs**

- They have high rates of anxiety disorders, depressive disorders, as well as physical disorders. <sup>1, 2</sup>
- Unmet needs for people with dementia living in the community and their caregivers include: <sup>3, 4</sup>
  - More extensive screening for functional abilities, neuropsychiatric symptoms, misuse of substances, safety, and pain
  - Early disclosure of diagnosis to people with dementia and their family to enable advance care planning
  - Education, support, and behavioral health care for family caregivers
  - Training for primary care physicians and gerontologists in diagnosis, treatment (including more cautious use of medications), and the use of motivational techniques to promote healthy aging.
  - Neuropsychiatric behavior management
  - Daily/meaningful activities
  - Home and personal safety provisions
  - Medical condition management
- 1. Onyike, CU, et al (2016). "Psychiatric Aspects of Dementia" in *Continuum*, April 2016. Psychiatric Aspects of Dementia PMC (nih.gov)
- 2. Hughes TB, et al. (2014) "Correlates of objective and subjective measures of caregiver burden among dementia caregivers: influence of unmet patient and caregiver dementia-related care needs" in *International Psychogeriatrics*.
- 3. Black BS, et al. (2019) "Unmet needs in community-living persons with dementia are common, often non-medical and related to patient and caregiver characteristics" in International Psychogeriatrics. February 2019
- 4. Bouldin, E. (2021). "Unmet Needs for Assistance Related to Subjective Cognitive Decline" in International Psychogeriatrics, July 2021
- 5. Schultz, S. K., Llorente, M. D., Sanders, A. E., Tai, W. A., Bennett, A., Shugarman, S., & Roca, R. (2020, February). *Quality Improvement in Dementia Care: Dementia Management Quality Measurement Set 2018 Implementation Update*. Retrieved 11 15, 2021, from American Journal of Psychiatry: <a href="https://ajp.psychiatryonline.org/doi/10.1176/appi.ajp.2019.19121290">https://ajp.psychiatryonline.org/doi/10.1176/appi.ajp.2019.19121290</a>

#### **Most Older Adults With Mental Disorders Do Not Get Treatment**

Treatment for Anxiety or Depression



Byers, A. et al (2012). "Low Use of Mental Health Services Among Older Adults With Mood and Anxiety Disorders" in *Psychiatric Services*, January 2012.

#### Most Older Adults With Mental Illnesses Do Not Get Even Minimally Adequate Mental Health Services

- Treatment by primary care physicians is **not** minimally adequate 87.3% of the time.<sup>1</sup>
- Treatment by mental health professionals is **not** minimally adequate 51.7% of the time.<sup>1</sup>
- Older adults are less likely to get health care in mental health specialty settings than other age groups.<sup>2</sup>
- In-home service providers, such as home health aides, are rarely trained to identify or treat mental disorders.<sup>2</sup>
- Community service providers in senior centers, adult day care, etc. are rarely trained in identification or treatment.<sup>2</sup>
- Mental health care in nursing and adult homes is also uneven. Overuse of anti-psychotic medications is common and dangerous.<sup>2</sup>

<sup>1.</sup> Wang, P.S. et al. (2005). "Twelve-Month Use Of Mental Health Services In The U.S." Archives of General Psychiatry. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1931566/

<sup>2.</sup> Institute of Medicine (2012). *The Mental Health and Substance Use Workforce for Older Adults: In Whose Hands?* The National Academies Press. <u>The Mental Health</u> and Substance Use Workforce for Older Adults: In Whose Hands? | The National Academies Press (nap.edu).

#### Primary Care Physicians Often Fail To Identify Or Treat Mental Illness In Older Adults

- Almost 90% of older adults with depression get no treatment or inadequate treatment in a primary care setting.<sup>1</sup>
- Older adults who meet diagnostic criteria for mental illness are less likely than young or middle-aged patients to receive specialty mental health care or to be referred from primary care to specialists.<sup>2</sup>
- 50-70% of older adults who complete suicide have seen their primary care physician within 30 days.<sup>3</sup>
  - 1. O'Neill, G. and Patrick, M. (2002). State of aging and health in America. Merck Institute of Aging & Health, Washington, D.C. and Gerontological Society of America.
  - 2. Klap, R. et al. (2003). "Caring For Mental Illness In The United States: A Focus On Older Adults." *The American Journal Of Geriatric Psychiatry*. September-October 2003. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3184156/</u>
  - 3. Luoma, J et al (2002). Contact with mental health and primary care providers before suicide: A review of the evidence. Am J Psychiatry.

#### Barriers To Care And Treatment Of Older Adults With Behavioral Health Conditions

- Shortages of clinically, culturally, and geriatrically competent providers
- Over reliance on primary care providers without adequate training
- High out of pocket cost
- Inadequate public information about where and how to get services
- Transportation problems to reach service sites
- Shortages of services in rural areas
- Shortages of in-home services
- Shortages of outreach and engagement services
- Shortages of bi-lingual providers
- Low perceived need
- Stigma
- Cultural differences regarding sources of help
- The **use of tele-health** services during the pandemic has significantly improved access, but such services are less available to older adults than younger due to issues of broadband access, ownership of needed equipment, and ability to use it.

Soloway E. et al (2010). "Access Barriers to Mental Health Services for Older Adults from Diverse Populations: Perspectives of Leaders in Mental Health and Aging."

https://www.tandfonline.com/doi/full/10.1080/08959420.2010.507650?casa\_token=uOSTfTGj26cAAAAA%3A67B2B06iEymDr6LJtdPHmu9AyneOZTfgFZbS8jx eKwsfPGnYF7D664BIZYNx5AeAfwOkwQvKEObvHg&

### <u>The Workforce For Geriatric Cognitive And Behavioral Health Is</u> <u>Too Small And Not Keeping Pace With Population Growth 1</u>

#### <u>Actions Needed To Address Workforce Shortages</u>

- Increase and improve the geriatric workforce with financial and other incentives to work with older adults
  as well as by providing increased training.<sup>2</sup>
- Because it is not possible to train enough geriatric cognitive and behavioral health specialists, it is
  necessary to change the workforce paradigm and to train primary care clinicians, social service providers,
  paraprofessionals, peers, volunteers, etc. to identify needs and provide care.<sup>3, 4</sup>
- Increase the use of **internet technology**. <sup>3</sup>
- Provide increased support for family caregivers, who are the primary *de facto* workforce for people with mental disabilities.<sup>5</sup>
- 1. Institute of Medicine (2012). *The Mental Health and Substance Use Workforce for Older Adults: In Whose Hands?* The National Academies Press. <u>The Mental Health</u> and Substance Use Workforce for Older Adults: In Whose Hands? | The National Academies Press (nap.edu).
- 2. Warshaw, G and Bragg, E. (2014) "Preparing The Health Care Workforce To Care For Adults With Alzheimer's Disease And Related Dementias." *Health Affairs*. April 2014.
- 3. Stephen J. et al. (2013). "The Underside of the Silver Tsunami Older Adults and Mental Health Care" in *The New England Journal of Medicine*, February 7, 2013. https://www.nejm.org/doi/full/10.1056/nejmp1211456
- 4. Kunik, M. et al. (2017). "Expanding the Geriatric Mental Health Workforce Through Utilization of Non-Licensed Providers" in *Aging and Mental Health*, September 2017. Expanding the Geriatric Mental Health Workforce through Utilization of Non-Licensed Providers (nih.gov)
- 5. Parmar, J et al. (2020). "Caregiver-Centered Care Health Workforce Competencies: Taking Steps to Support Family Caregivers of People Living With Dementia" in Alzheimer's and Dementia, December 2020.

### An Agenda For Improved Cognitive And Behavioral Health Policy

- 1. Provide services to support **community integration** ("aging in place").
- 2. Improve **long-term care**—nursing homes, assisted living, and home and community-based services.
- 3. Increase cognitive and behavioral health service **capacity** to keep pace with the growth of the older population and to address current shortfalls.
- 4. Enhance **access** to care particularly with **extensive use of telehealth.**
- 5. Improve **quality of care** emphasizing clinical, cultural, dementia, and geriatric competence in service design and delivery.
- 6. Increase and improve the professional and paraprofessional **workforce** and **change the workforce paradigm** to create clinical, cultural, and geriatric competence in the primary care, long-term care, behavioral health, and social service workforces.
- 7. Enhance **integration of care** within and between separate service "systems"—dementia care, behavioral health care, long-term health care, and aging social services.
- 8. Enhance **support for family caregivers.**
- 9. Address social "determinants" of behavioral health such as racism, poverty, and isolation.
- 10. Improve public and professional education.
- 11. Increase and redesign **funding** to meet the needs of older adults.
- 12. Develop a publicly accessible **data dashboard** for planning purposes.