Dementia 101

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Goizueta Alzheimer's Disease Research Center

Objectives

- Define Alzheimer's Disease and Related Dementias
- 2. Identify Dementia Behaviors
- 3. Managing Behaviors without Medication
- 4. Provide educational resources for self-learning

What Is Dementia or NCD?

Dementia or Neurocognitive Disorder(NCD), is NOT NORMAL in aging!

- Persistent symptoms and behaviors that interfere with normal social or occupational function
- No effective treatment
- May overlap with delirium, a treatable medical problem

Neurocognitive Disorders in DSM-5: Impairment Across 6 Key Domains

Domain	Symptoms
Complex attention	Ability to attend to and process multiple stimuli Eg) trail making
Executive function	Ability to plan, organize, and complete tasks/projects Eg) Verbal fluency; animals
Learning and memory	Acquiring, manipulating, and remembering items, facts, words and their meanings, events, people, procedures, skills, etc. E.g.) Recall, numbers
Perceptual-motor	Identification and manipulation of figures, maps and items; motor tasks; recognition of faces and colors Eg) Cube
Language	Expressive and receptive language skills
Social cognition	Socially appropriate behaviors and decision-making; empathy

Mild Cognitive Impairment (MCI)

- An Acquired condition that may affect only ONE higher brain function.
- Cognitive problems do NOT interfere with normal activities
- Earliest detectable stage of illness
- Mild Cognitive Impairment may NOT result in dementia





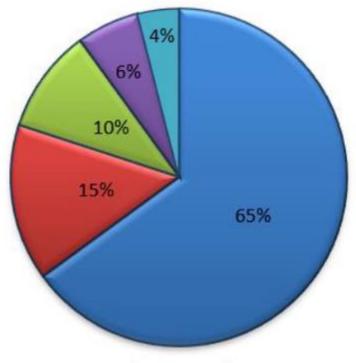
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TYPES OF DEMENTIA BY PERCENTAGE



- Alzheimer's Disease
- Vascular Dementia
- ■Lewy body Dementia

Frontotemporal Dementia Mixed

Graphical representation of types of dementia by percentage. Reference: Adopted from http://seniorsfirstbc.ca/for-professionals/dementia/

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Dementia Symptoms

- Memory Loss
- Repetition of words, stories, phrases
- Loss of bowel and bladder function
- Inability to independently dress, groom, toilet, feed or manage finances or meals
- Gait instability- falls
- Personality Changes- belligerent, apathy
- Psychoses- paranoia



Dementia Behaviors

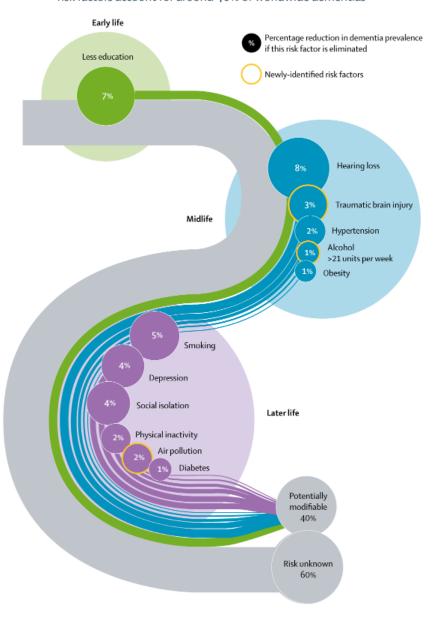
- Wandering
- Personality Changes- irritability
- Paranoia- fear, suspicion
- Hallucinations
- Unusual Spending/Buying
- Compulsive Behaviors
- Driving Difficulties-accidents, getting lost

How do you Address Behaviors?

- See a Doctor!
 - A careful medical evaluation is required to look for treatable causes
 - Some behaviors may be normal and others may not
 - Other trained professionals- Social worker, elder care attorneys, occupational therapists may assist with familial, social and health problems

Risk factors for dementia

An update to the *Lancet* Commission on Dementia prevention, intervention, and care presents a life-course model showing that 12 potentially modifiable risk factors account for around 40% of worldwide dementias



Medications for Symptoms

- Cholinesterase inhibitors
 - Aricept –donepezil
 - Razadyne (galantamine)
 - Exelon(rivastigmine)
- NMDA Antagonists
 - Namenda- Memantine
- Antidepressants to manage mood/sleep
 - Zoloft, Citalopram, Lexapro, Trazodone, Mirtazepine
- Antipsychotics to manage psychosis
 - Risperdal; Seroquel; Geodon



Managing Dementia Behaviors

- Medications
- Non-Medication Strategies
 - Establish a daily routine of activity-groom, feed physical activity
 - Maintain a well lit, calm and clear environment
 - Minimize exposure to large crowds and unfamiliar people
 - Engage in enjoyable activities "fit" for the individual
 - Minimize loud noises



Non Pharmacologic therapies

- Activity Engagement
 - Music therapy
 - Reminisence Therapy
 - Exercise
 - Multimedia devices
- Social Interaction
 - Social engagement with partners or companions
 - Joint activities e.g. painting, walking, music
- Care Aid
 - Educational and Counseling for patient and family



Music and Behavior

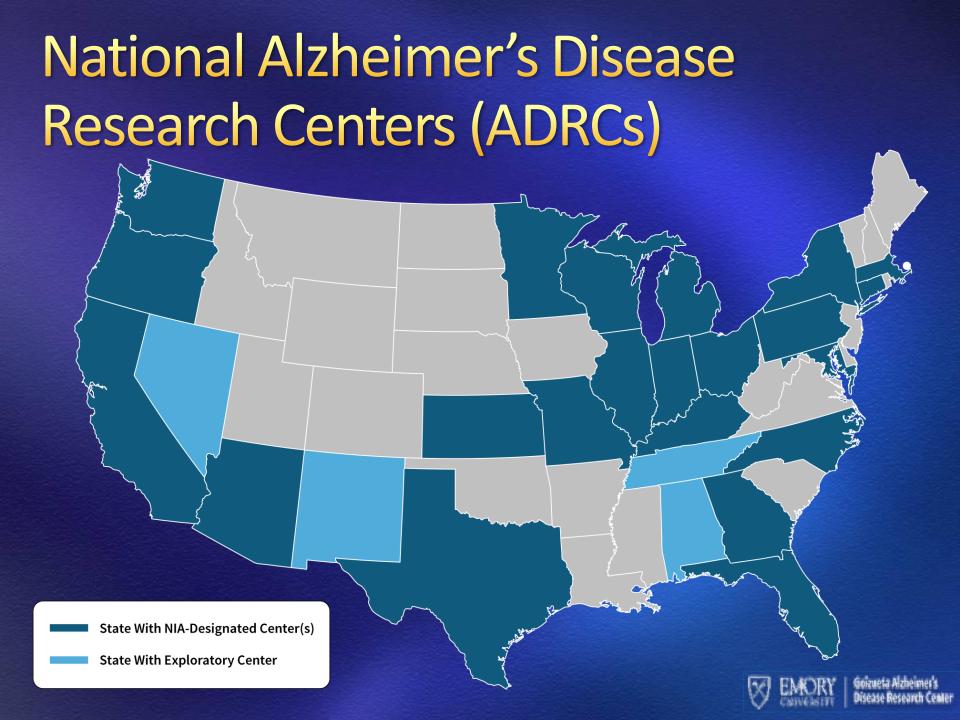
- Music- of their early adulthood- allows connection to something familiar and happy
- Familiar music may ease anxiety and agitation
 - Particularly useful in early evening to prevent sundowning
- Singing and dancing can aid with physical rehabilitation



Treatment

There is no known cure for neurodegenerative disease.





Active NIA AD/ADRD Clinical Trials

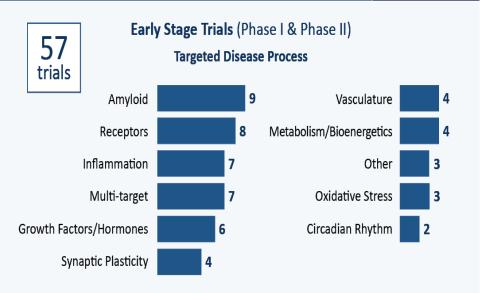


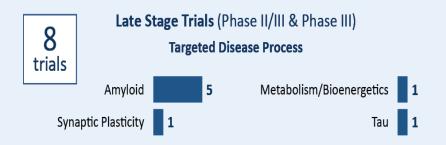
Pharmacological Interventions

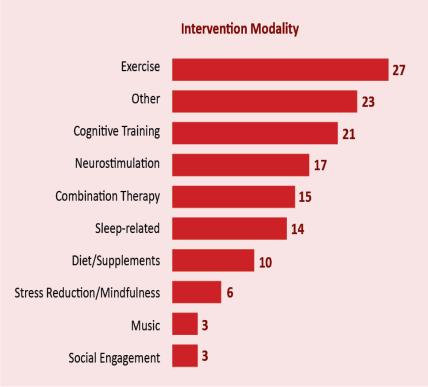
65 TRIALS



139 TRIALS







For more information please visit www.nia.nih.gov/research/ongoing-AD-trials





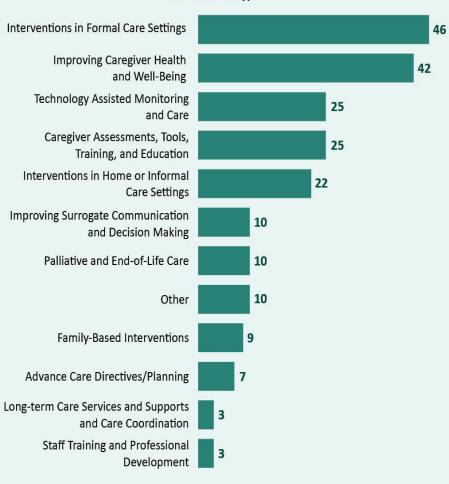
Dementia Care and Caregiving Interventions

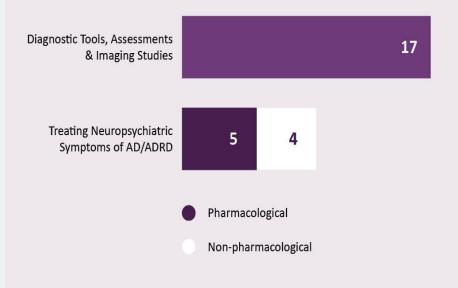
212 TRIALS



26 TRIALS

Intervention Type





Total Number of Trials

442

For more information please visit www.nia.nih.gov/research/ongoing-AD-trials



Data last updated: July 2022.



Inclusion in Clinical Research is Essential

- Eliminates health disparities
- Maintains the integrity of science and generalizability of medicine
- Upholds the principle of justice, a founding principle in the regulations surrounding human subjects research (Belmont Report)

Shavers, et al. (2002); Mouton et al (1997); Corbie-Smith et al. (1999); Wendler et al. (2006); Van Ryn et al. (2000)



Is **CLINICAL RESEARCH** right for me?

Clinical research is medical research that involves **people**. """



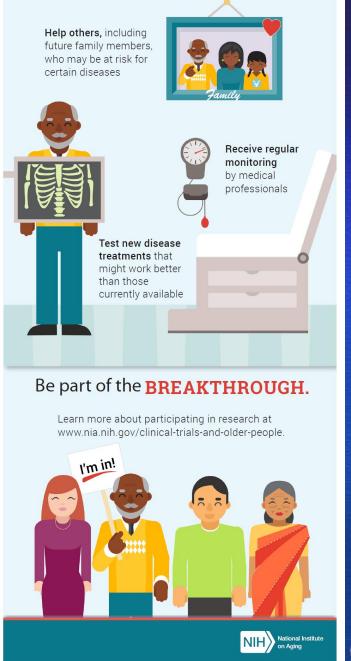
It's led to the **DISCOVERY** of every disease treatment prescribed today.

Study volunteers play a critical role in this process.

Are you interested in joining a study or trial?

CLINICAL RESEARCH may be right for you if you want to:

may be right for



Summary

- Dementia behaviors can be managed without medication
- Establishing/following a daily routine for PLWD relieves anxiety. Routine includes grooming, feeding, physical activity and socialization
- Non medication therapies include music, reminiscence, physical exercise
- Research is ongoing by the NIH in caregiving, disease and therapeutics for ADRD.



Websites

- www.alzu.org Tutorial about the disease
- www.alz.org Resources for caregivers
- http://www.alzheimers.emory.edu Emory Alzheimer's Disease Research Center
- Alzheimer's Disease and Related Dementias | National Institute on Aging (nih.gov)

