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Understanding Dementia 101: Signs & Symptoms of Alzheimer's and other Dementias

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LIVE WEBINAR October 16, 2024 • 6-7:15 pm EST

Understanding Dementia 101:

Signs & Symptoms of Alzheimer's and other Dementias

Alzheimer's Disease... Vascular Dementia... Mild Cognitive Impairment. What's the difference? And what difference does it make?

Alzheimer's and other types of dementia affect people's brains in particular ways. While some signs and symptoms overlap, others can be guite different. Understanding the type of dementia a person has can provide valuable clues into their remaining strengths and how best to support them.

Understanding Dementia 101 is a foundational three-part series to help individuals and families interested in learning more about living with an Alzheimer's or dementia diagnosis. This seminar explores the different types of dementia and how they change memory, thinking, communication, and other symptoms. Join in on these 101 introductory seminars at any time and in any order. Not sure where to start? Give us a call to talk about your needs.



Speaker: Stephani Shivers, MEd, OTR/L

Stephani is the Chief Innovation Officer at CaringKind where she leads the development of new programs and services for individuals and families impacted by dementia. With over 30 years professional experience in not-for-profit leadership and as an occupational therapist specializing in cognitive function, she is nationally recognized as a leader in community-based dementia services. Stephani is driven to 'make things better' and to improve people's quality of and engagement in life.

REGISTER LIVE or ONLINE 646-744-2900 caringkindnyc.org/monthlyeducation

EDUCATION SEMINAR

individuals, families and professionals

A free learning event for

Stephani Shivers, MEd, OTR/L

Anne Kenny, MD



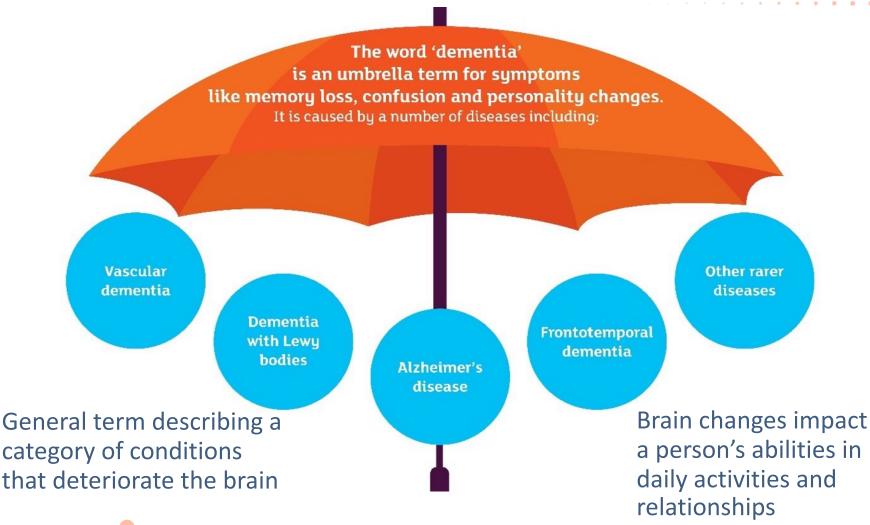
Alzheimer's Disease... Lewy Body... Vascular...

What's the difference? What difference does is make?





What is Dementia?







Fruits

Apples, Pears, Grapes

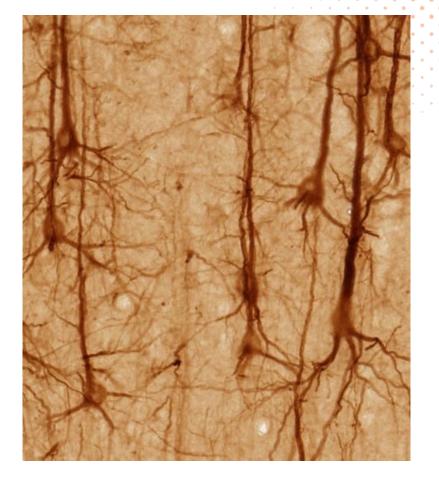
Dementia

Alzheimer's, Lewy Body, Vascular

Changes from Dementia

Brain changes cause a decline in one or more of the following areas:

- memory
- executive function
- visual spatial function
- language
- processing
- muscle movement
- sensory functions





A little brain work...



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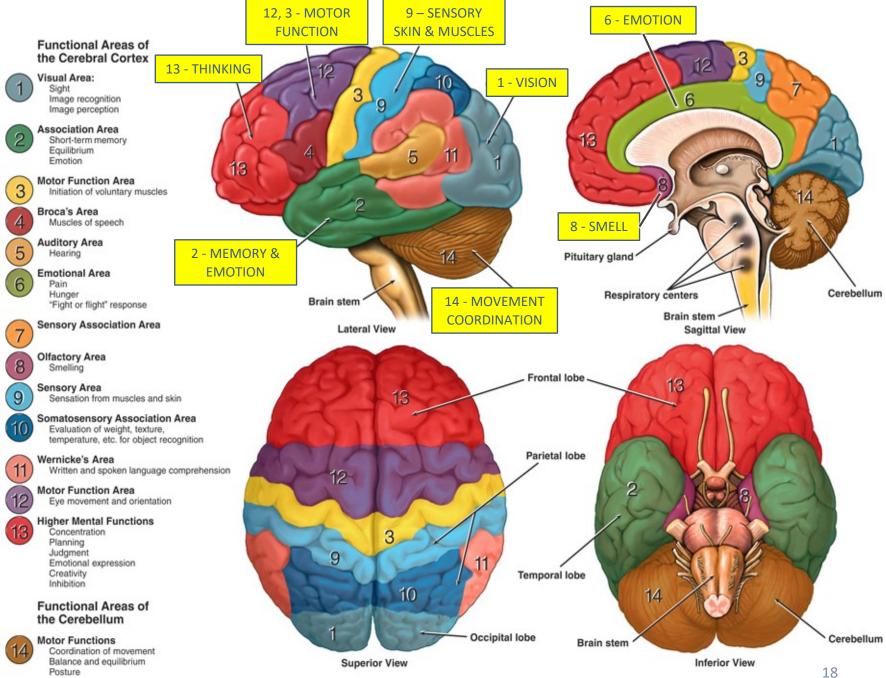
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http://www.dana.org/uploadedImages/Images/neuroanatomy_large.jpg





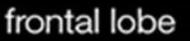




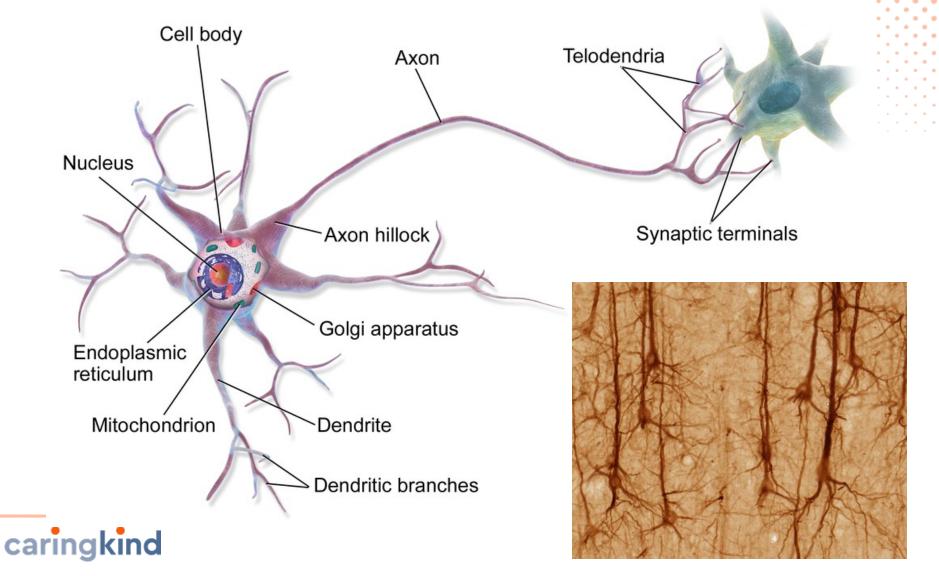
http://www.dana.org/uploadedImages/Images/neuroanatomy_large.jpg

Alzheimer's Disease

Frontotemporal Dementia



Brain Neuron Network







"Plaques" – Beta-Amyloid





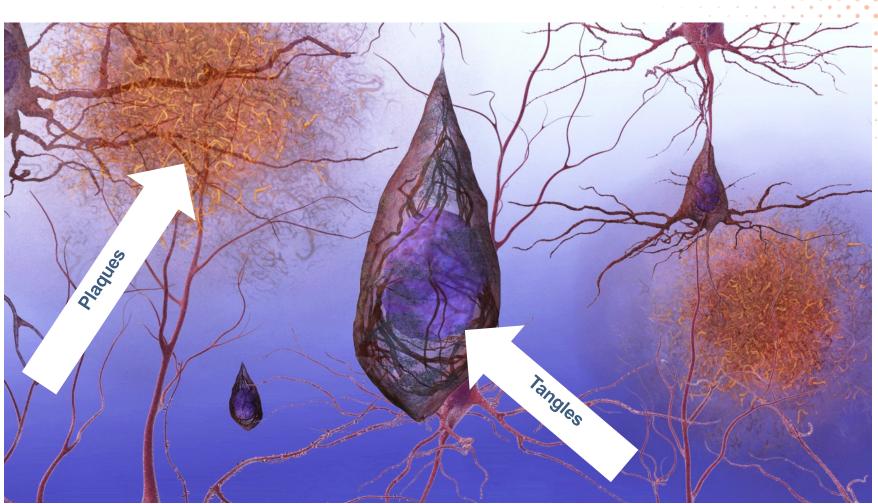
Abnormal clusters of proteins called "Plaques" build up between nerve cells

When TAU proteins tangle and twist nerve cells eventually die





Plaques & Tangles





Source: Alzheimer's Association. www.alz.org. Illustrations by Stacy Jannis.





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https://www.nia.nih.gov/health/alzheimers-causes-and-risk-factors/what-happens-brain-alzheimers-disease

Alzheimer's Disease... Lewy Body... Vascular...

What's the difference? PATHOLOGY – CAUSES

What difference does is make?

DIFFERENT SYMPTOMS



Understanding "Memory" & Changes



Recent Events or "Episodes"

Short Term

Memory

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Remote Events – old episodes



• Facts & Things

- That's a car.
- The sun rises

Procedural Memory

> Remote pilot. Don't think about it. Just do it

• Eg. Teeth brushing, biking



• Info holding in mind

- attending to right now
- (executive function vs. memory)

Understanding Language & Changes

Expressive Language

(Logic or word production)



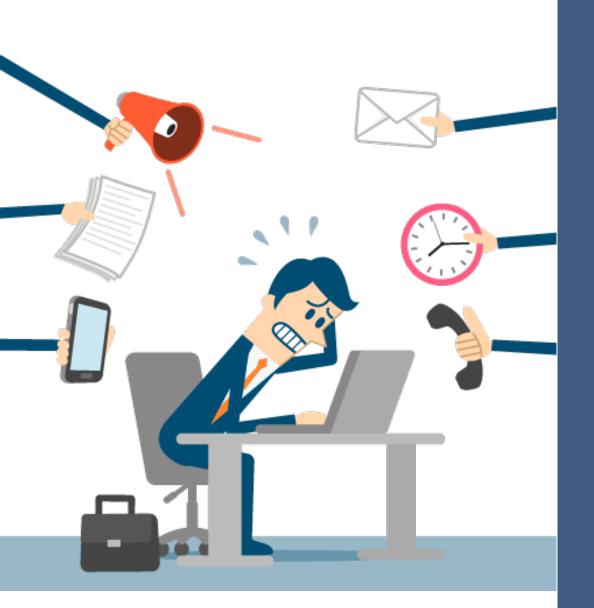
Receptive Language (Understanding words)



Tip of the Tongue (eg. can't find name of thing



Related or Wrong Word (eg. 'brother' vs. 'husband')



https://memory.ucsf.edu/symptoms/executive-functions

Understanding Executive Function: Organization

- Executive function are higher-level cognitive skills.
- Used to control and coordinate other cognitive abilities and behaviors
- i.e. like a Chief Executive Officer



Executive Function

Organization

Organization – gathering information and structuring it for evaluation

 attention, planning, sequencing, problemsolving, working memory, cognitive flexibility, abstract thinking, rule acquisition, selecting relevant sensory information

Regulation

Regulation – involves evaluating the available information and modulating your responses to the environment.

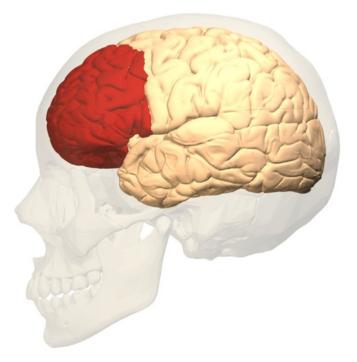
 initiation of action, selfcontrol, emotional regulation, monitoring internal and external stimuli, initiating and inhibiting context-specific behavior, moral reasoning, decision-making



https://memory.ucsf.edu/symptoms/executive-functions

Executive Function Changes

- Difficulty organizing
- Inability to multitask
- Difficulty in planning and initiation (getting started)
- Trouble planning for the future
- Difficulty processing, storing, and/or retrieving information
- Mood swings

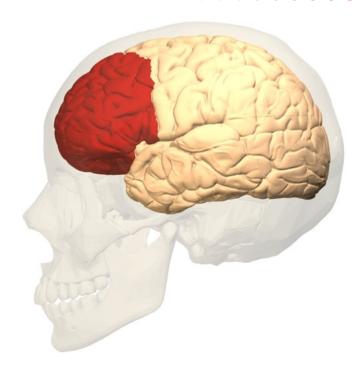




https://memory.ucsf.edu/symptoms/executive-functions

Executive Function Changes

- Lack of concern for others
- Loss of interest in activities
- Socially inappropriate behavior
- Inability to learn from consequences from past actions
- Difficulty with abstract concepts
- Unawareness or denial that their behavior is a problem





https://memory.ucsf.edu/symptoms/executive-functions

What Else is Changing?



Visual Spatial Changes



Processing Speed





Inspired by and created with the words of people with dementia



Balance



Physical Abilities



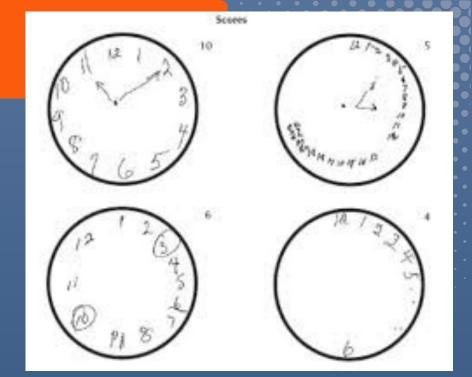
Coordination

https://www.alzscot.org/sites/default/files/2019-07/Sensory%20Leaflet.pdf



Visual Spatial Changes







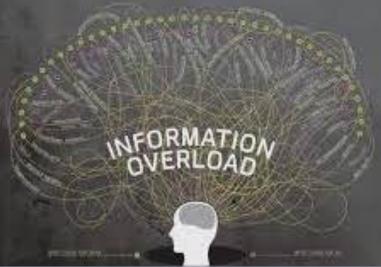


Processing Changes



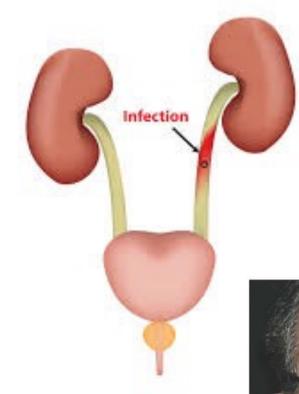




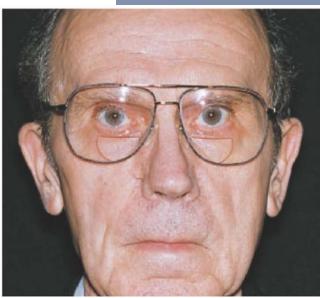




Physical Changes





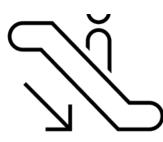




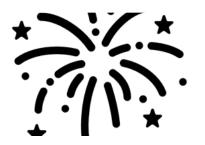


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Types of Dementia

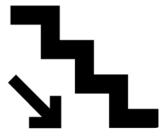


Alzheimer's disease



Frontotemporal Degeneration (FTD) -Behavioral

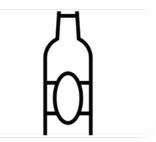




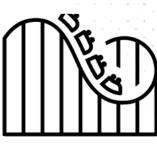
Vascular dementia



FTD: Primary Progressive Aphasia



Wernicke-Korsakoff syndrome (alcohol abuse)



Lewy Body Disease





Parkinson's Disease (Late)



Chronic Traumatic Encephalopathy

Alzheimer's Disease







- Most common type of dementia
- Abnormal amounts of plaques and tangles in the brain
- Loss of connections between nerve cells (neurons)
- Brain changes may begin 10+ years before symptoms emerge
- Symptoms generally appear in mid 60's
- Memory problems are generally first signs
- Also impacts word-finding, vision/spatial issues, reasoning, judgment

https://www.nia.nih.gov/health/alzheim ers-disease-fact-sheet

https://www.alzheimers.gov/alzheimersdementias/alzheimers-disease

- Results from injuries to blood vessels that supply brain
- Symptoms similar to Alzheimer's
- Can occur with AD for "mixed dementia"
- Symptoms can begin suddenly stepwise progression
- People can improve or worsen over time

https://www.nia.nih.gov/health/vascular-dementiaand-vascular-cognitive-impairment-resource-list

https://www.alz.org/alzheimers-dementia/what-isdementia/types-of-dementia/vascular-dementia Vascular Dementia/Cognitive Impairment



Vascular Cognitive Impairment

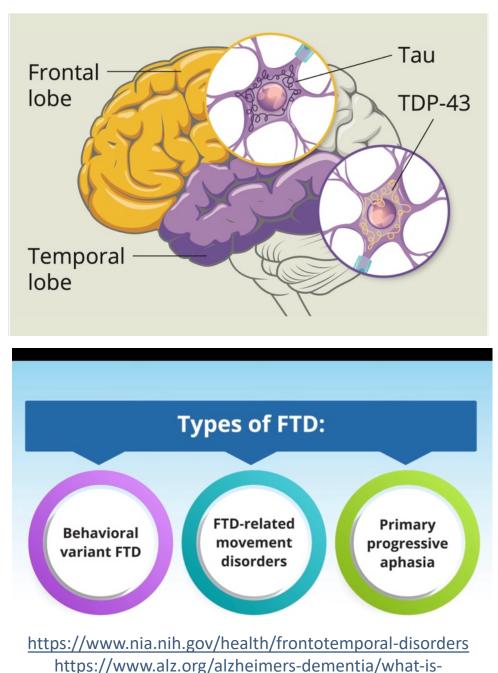
ladecola, C. et al. J Am Coll Cardiol. 2019;73(25):3326-44.



Frontotemporal Degeneration (Pick's Disease)

- Caused by damage to nerve cells in frontal and temporal lobes
- Hard to diagnose because changes are similar to those of other conditions
- Can affect behavior, language, movement, emotions
- FTD is the most common dementia in people under age 60





dementia/types-of-dementia/frontotemporal-dementia

- Abnormal proteins Lewy bodies affect chemicals in brain
- Early symptoms differ, but over time more similar
- Typically begins at age 50 or older, can have slow progression
- Cognitive fluctuations
- Muscle rigidity and movement problems
- Visual hallucinations
- Sleep disorder, mood changes (depression, apathy, anxiety)
- Severe problems with involuntary body functions (BP, incontinence, loss of smell)
- Extreme sensitivity to antipsychotic medications

https://www.nia.nih.gov/health/lewy-body-dementia https://lewybodyresourcecenter.org https://www.lbda.org

Lewy Body Disease & Parkinson's





Other Related Dementias

- Creutzfeldt-Jakob Disease
 - Similar to mad cow disease
 - Progresses quickly
 - Rare 1:1M
- Huntington's Disease
 - Genetic disorder
 - Transmitted to children
 - Develops between 30-50
 - Uncontrollable
 movements

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- Severe thiamine deficiency (vitamin B-1)
- Often from alcohol misuse
- Down Syndrome & Alzheimer's
 - Extra gene
 - Significant increase in risk for AD
 - 30% age 40, 50% age 50

https://www.alz.org/

Alzheimer's Disease... Lewy Body... Vascular...

What's the difference? What difference does is make?

LIVING WITH COGNITIVE DISABILITY

SUPPORT STRENGTHS FOCUS ON WELL-BEING



Dementia – A Cognitive Disability



"I'm not dying from a disease, I'm living with a chronic, cognitive disability"

- Richard Taylor

"It is clear we need to move from the medical model of care to one that is based on a social and disability pathway of support and care... A key issue in changing this is recognizing the symptoms of dementia as disabilities... The symptoms caused by dementia are cognitive disabilities"

– Kate Swaffer





Focus on Strengths & Abilities



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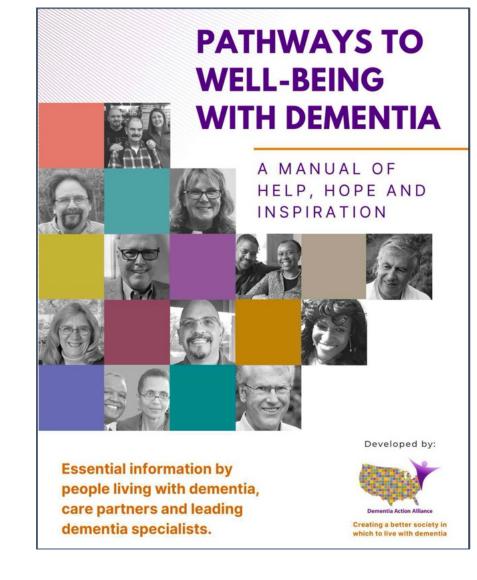


Supporting Well-Being

- Stay connected
- Find fun and interesting things to do and stay engaged
- Limit stress and stressful experiences
- Eat and drink healthily

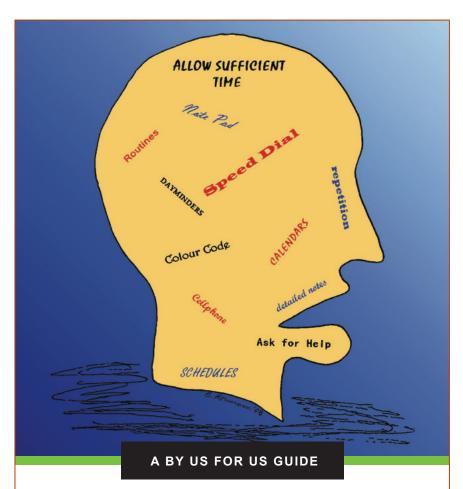
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- Get restorative sleep
- Be physically active
- Keep your spirits up



Dementia Action Alliance, et.al., 2022. Pathways to Well-Being with Dementia: A Manual of Help, Hope & Inspiration.

https://daanow.org/pathways/



Tips and Strategies

An inspirational guide for people living with dementia

SERIES 1

Strategies

- Add safeguards
- Minimize stress
- Visual aides
- Technology assistance
- Develop routines
- Keep life simple
- Keep your sense of humor
- Plan ahead
- Communicate your needs
- Connect to peers



Meaningful Engagement



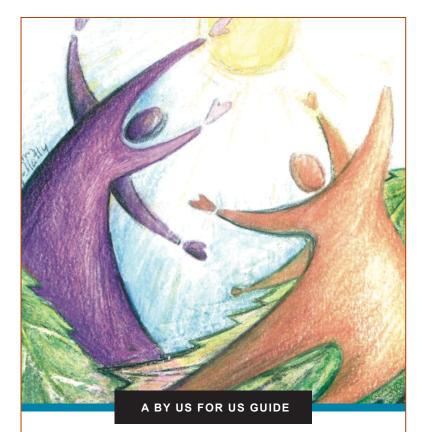




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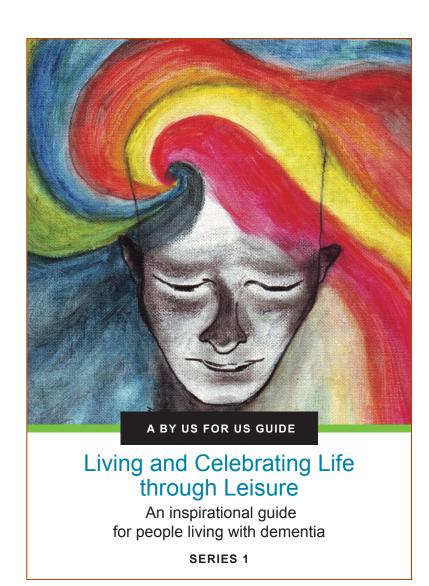




Role, Health and Well-being

An inspirational guide for care partners of people living with dementia

SERIES 3



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THANK YOU!



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QUESTIONS?

