

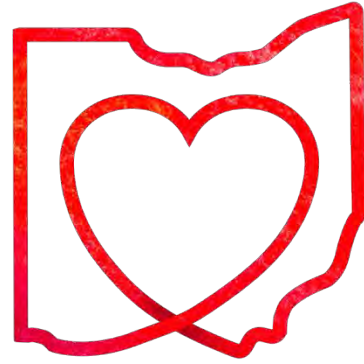
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Ohio Cardiovascular and Diabetes Health Collaborative



CASE WESTERN RESERVE
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In partnership with



Think Well, Live Well: Brain Health Through a Holistic Lens

Statewide Webinar

December 3, 2025



CARDI•OH

Ohio Cardiovascular and Diabetes Health Collaborative

Welcome

Shari Bolen, MD, MPH
Co-Principal Investigator, Cardi-OH

Case Western Reserve University School of Medicine

About Cardi-OH

Founded in 2017, the mission of Cardi-OH is to improve cardiovascular and diabetes health outcomes and eliminate disparities in Ohio's Medicaid population.

WHO WE ARE: An initiative of health care professionals across Ohio's seven medical schools.

WHAT WE DO: Identify, produce, and disseminate evidence-based cardiovascular and diabetes best practices to primary care teams.

HOW WE DO IT: Online library of best practices resources available at Cardi-OH.org and via our web app, including monthly newsletters, podcasts, webinars, and quality improvement using the Project ECHO® virtual training model.

Learn more at Cardi-OH.org



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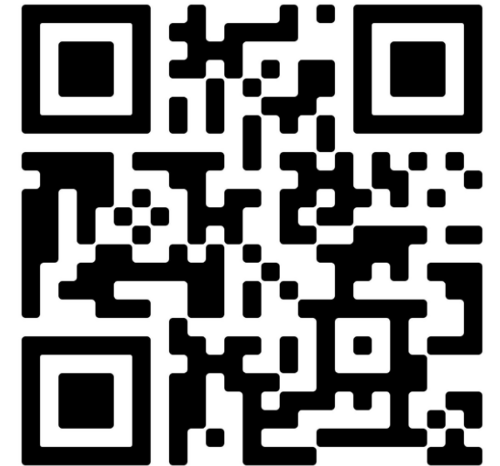
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 - Shari Bolen, MD, MPH; Robert B. Saper, MD, MPH; Amy Zack, MD
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Agenda

Topics	Presenter(s)	Timing
Welcome and Overview	Shari Bolen, MD, MPH	5 mins.
Think Well, Live Well: Brain Health Through a Holistic Lens	Robert B. Saper, MD, MPH	40 mins.
Audience Question and Answer	Amy Zack, MD (Moderator) Robert B. Saper, MD, MPH	10 mins.
Next Steps and Wrap Up	Shari Bolen, MD, MPH	5 mins.



Robert B. Saper, MD, MPH
Case Western Reserve University
Cleveland Clinic



Amy Zack, MD (Moderator)
Case Western Reserve University
Cleveland Clinic



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Think Well, Live Well: Brain Health Through a Holistic Lens

Robert B. Saper, MD, MPH

Professor, Cleveland Clinic Lerner College of Medicine

Case Western Reserve University

Nancy J. and Michael F. Roizen Chair of Wellness

Chair, Department of Wellness and Preventative Medicine

Cleveland Clinic

Learning Objectives

1. Understand the impact of lifestyle and behaviors on cognitive wellness
2. Identify modifiable risk factors for decline in cognitive function
3. Counsel on key lifestyle interventions for the prevention of cognitive decline and protection of brain health

Acknowledgment

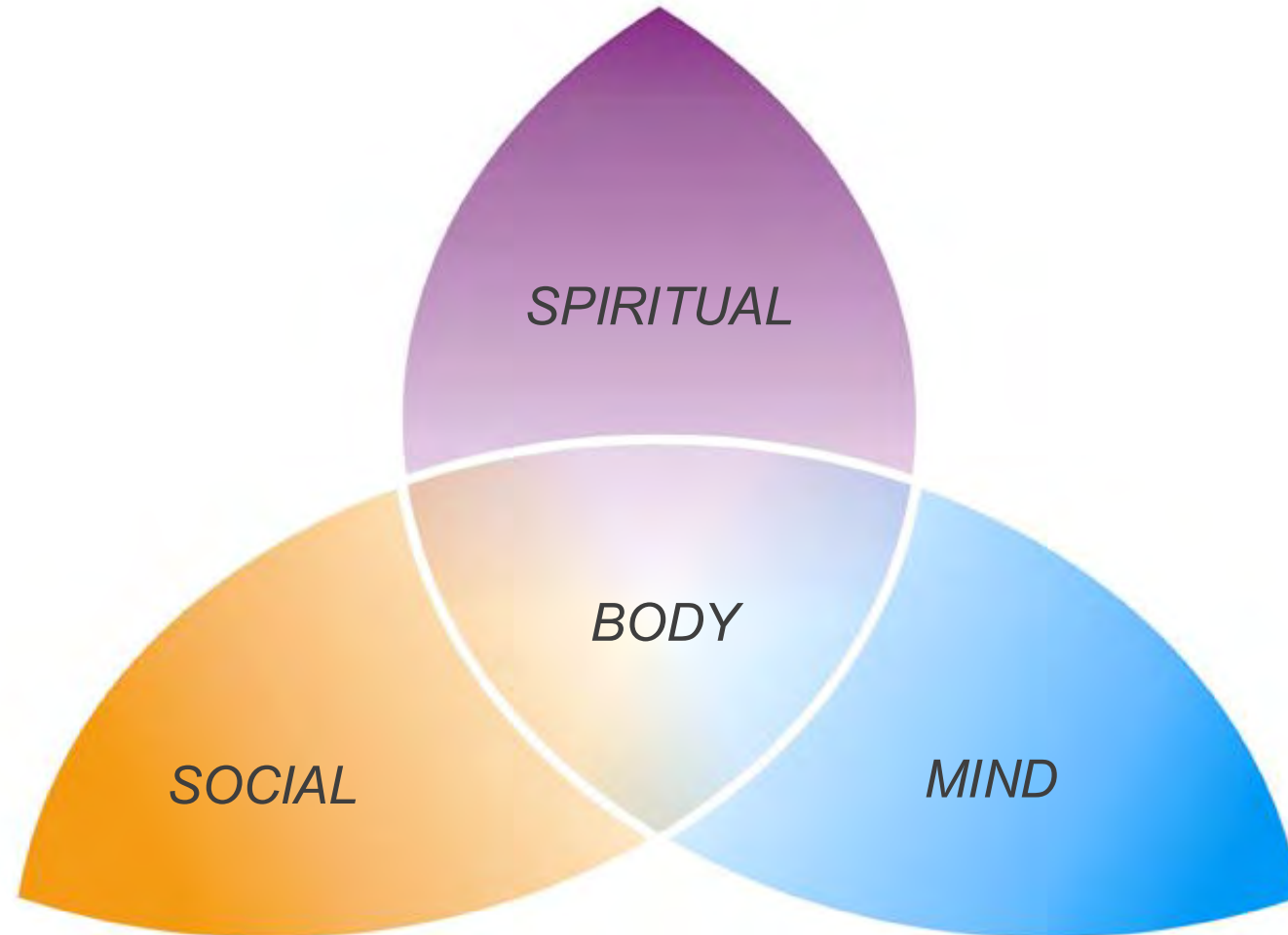


Sandra Darling, DO, MPH

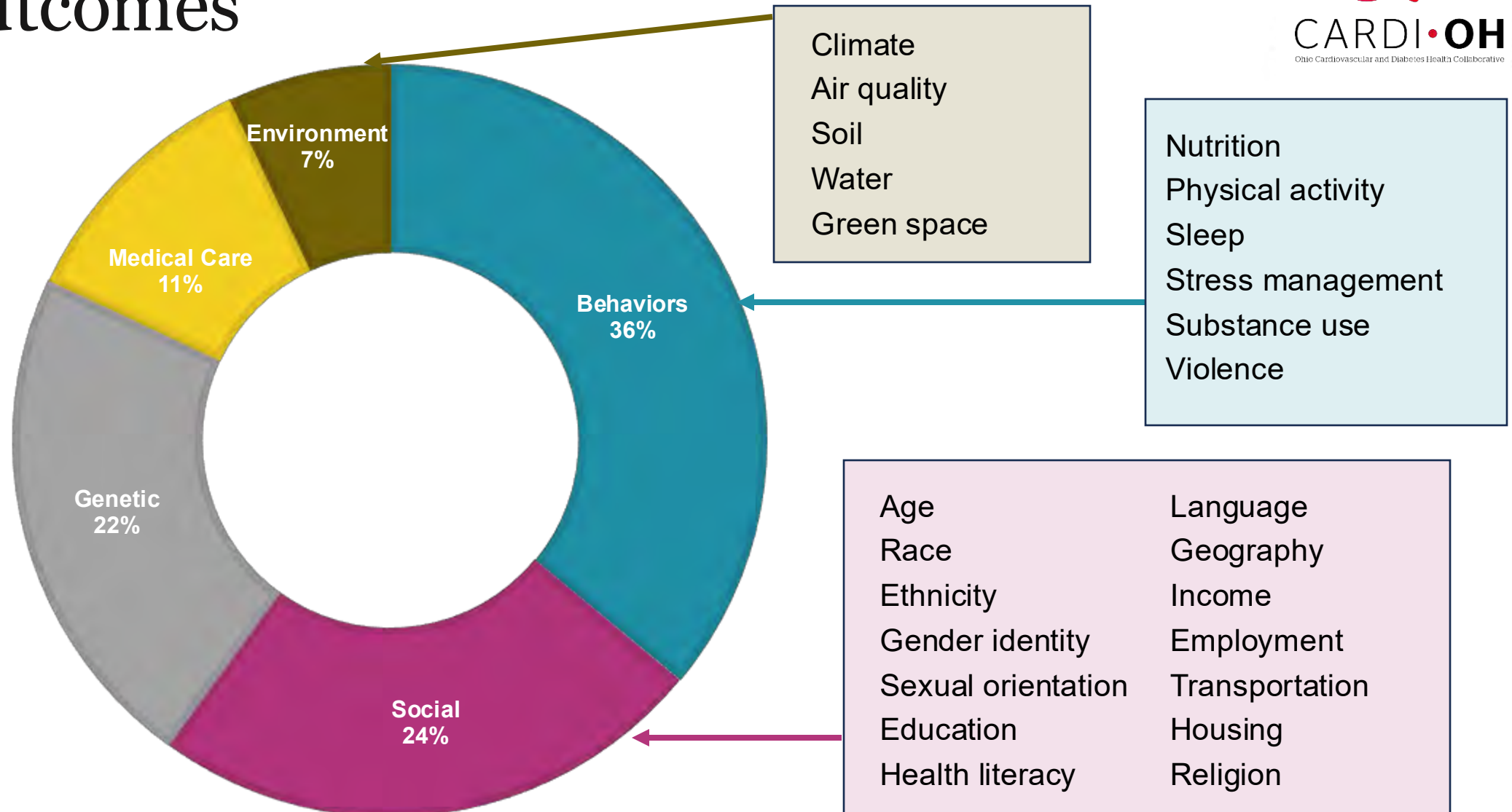
Director, Women's Alzheimer's Movement Prevention and Research Center
Cleveland Clinic

What Is a Holistic Lens?

The Biopsychosocial-Spiritual Model

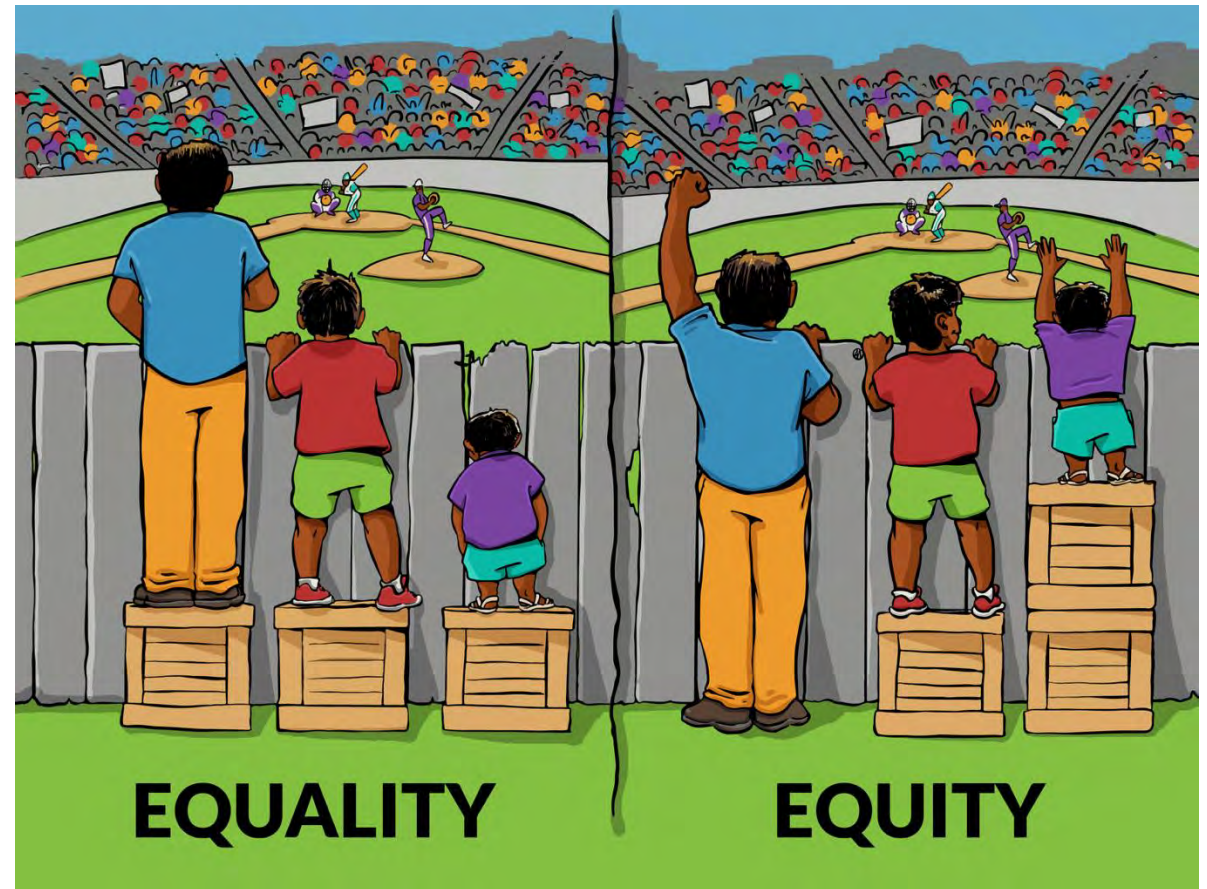


Contributors to Health and Wellness Outcomes

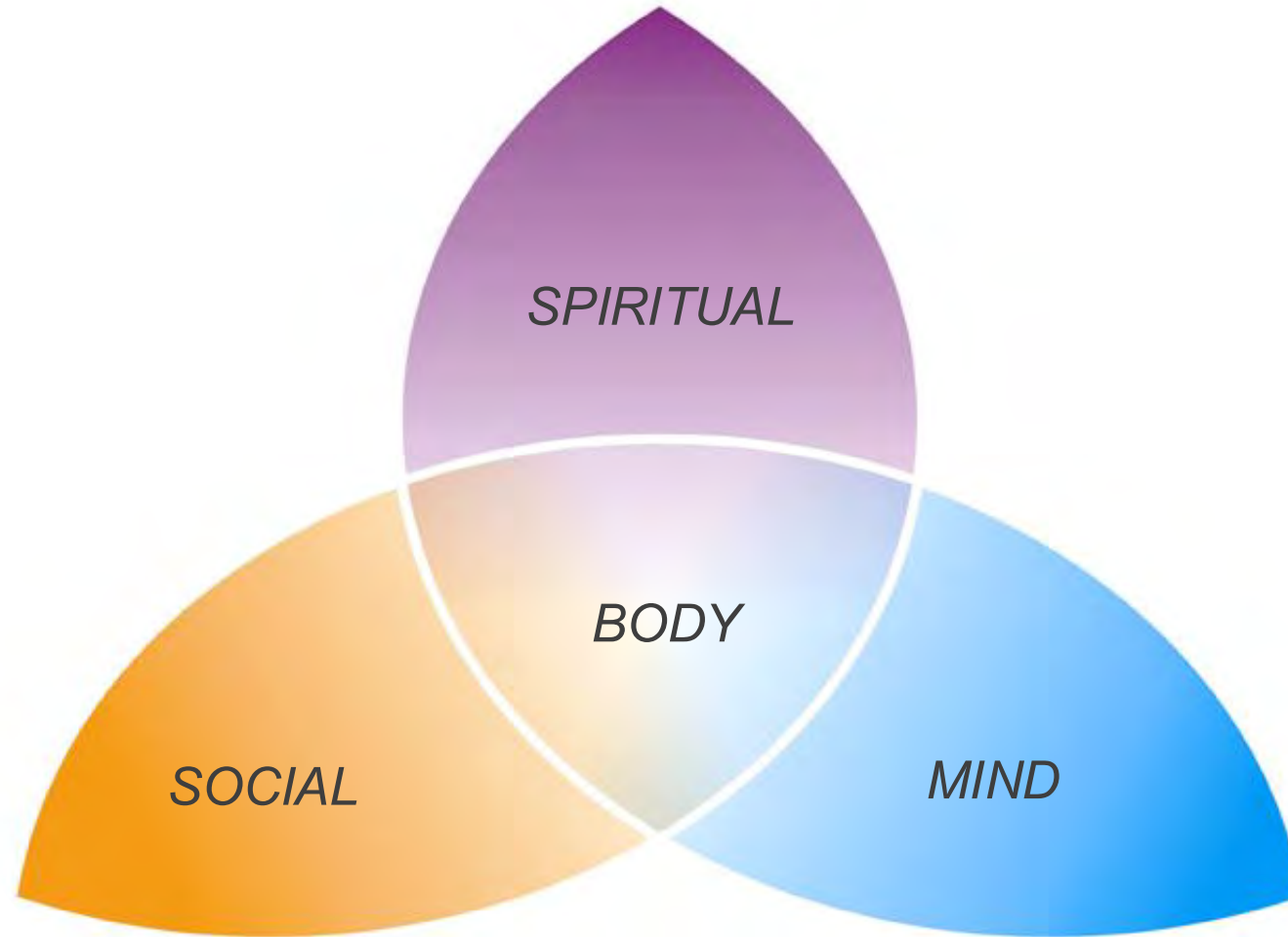


Health and Wellness Equity

Everyone should have a fair and just opportunity to attain their highest level of health and wellness



Dementia: “The Loss of the Self”



Lived Experience



Alzheimer's Disease and Related Dementias



- Alzheimer's disease (60-70% of all Alzheimer's disease and related dementias)
- Vascular dementia
- Lewy body dementia
- Frontotemporal dementia
- Normal pressure hydrocephalus
- Many others

Assessing Cognitive Function

Feature	C3	MoCA	MMSE	Mini-Cog
Developer	Cleveland Clinic	Nasreddine	Folstein	Borson
Format	iPad-based digital	Paper/digital	Paper	3-word + clock
Primary Purpose	Sensitive tracking	Mild cognitive impairment screen	Dementia screen	Ultra-brief dementia screen
Sensitivity to Early Cognitive Change	High	High	Moderate-Low	Low
Domains	Processing speed, memory, executive function	Multiple domains	Basic domains	Recall + clock
Time	12-15 min	10 min	7 min	3 min

The Spectrum of Cognitive Function

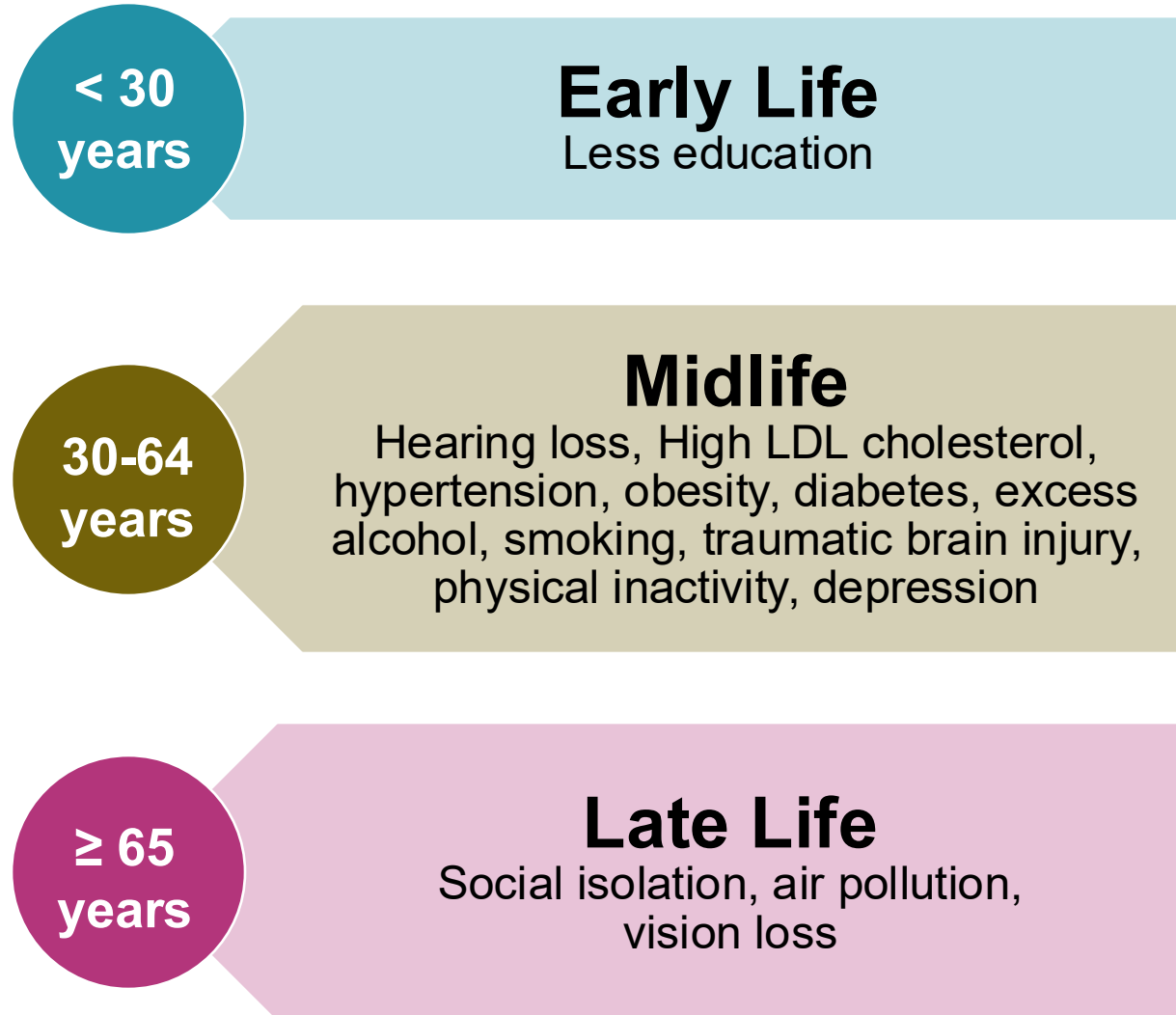


At This Time, Alzheimer's Disease Cannot Be Reversed



However, progression can likely be delayed through optimization of modifiable risk factors, behavioral, and lifestyle changes, and future medical therapies.

14 Modifiable Risk Factors of Dementia



Six Pillars of Lifestyle Medicine



Whole-Food, Plant-Predominant Eating Pattern

Emphasizes minimally processed plant foods



Regular Physical Activity

Move daily for fitness and function



Restorative Sleep

Prioritize quality and quantity of sleep



Stress Management

Build resilience and reduce chronic stress



Avoidance of Risky Substances

Eliminate or minimize harmful exposures



Positive Social Connection

Nurture healthy, supportive relationships

Dietary Patterns for Alzheimer's Disease Prevention

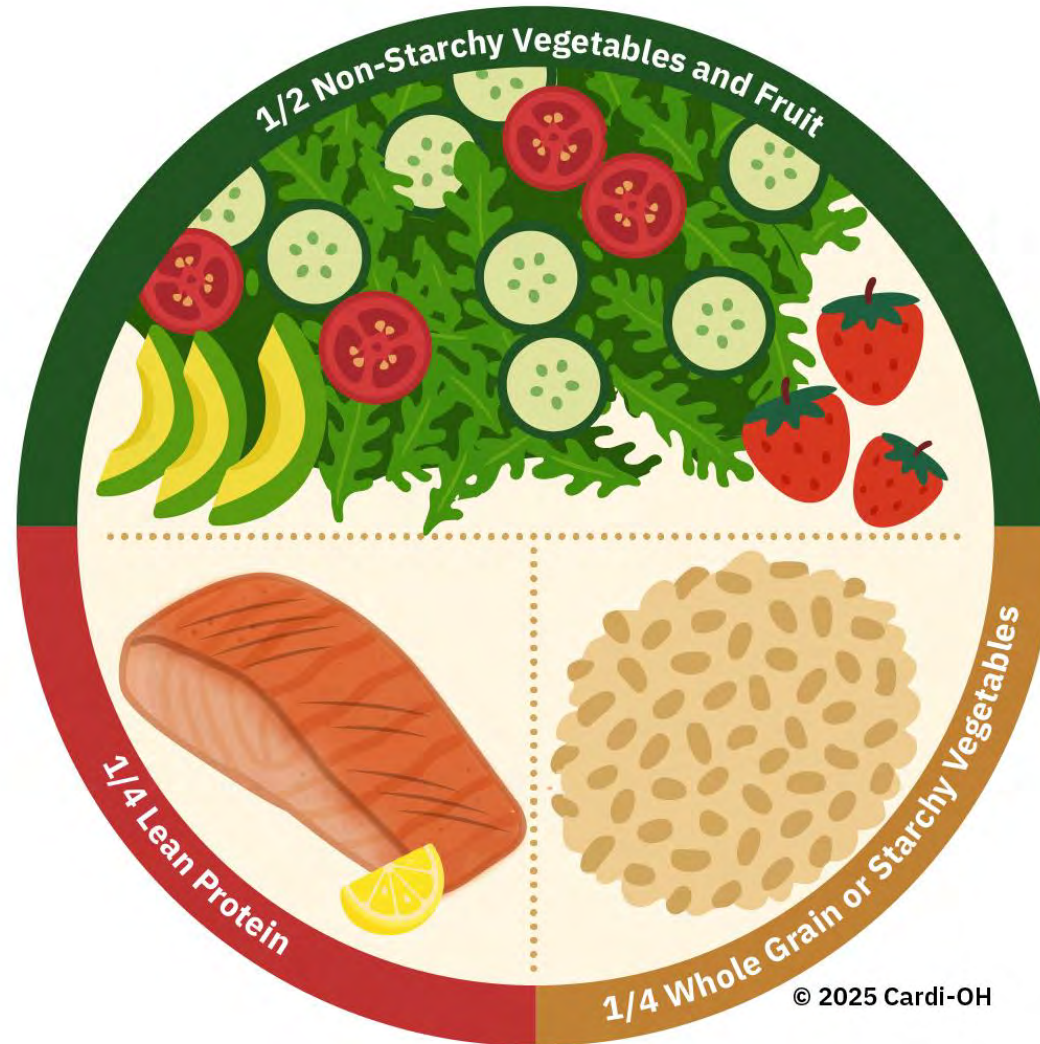
- Mediterranean Diet
 - High adherence = **54%** lower risk of Alzheimer's disease
- DASH Diet
 - High adherence = **39%** lower risk of Alzheimer's disease
- Mediterranean-DASH Intervention for Neurodegenerative Delay (MIND) Diet
 - High adherence = **53%** lower risk of Alzheimer's disease



Comparison of DASH vs. Mediterranean vs. MIND Diets

Feature	DASH Diet	Mediterranean Diet	MIND Diet
Fat Pattern	Low total fat, low saturated fat	High healthy fats (olive oil)	Moderate, olive oil emphasized
Protein Emphasis	Low-fat dairy, poultry, legumes	Fish, legumes, nuts	Fish, poultry, legumes (fish > poultry)
Sodium	Strict limits (1,500–2,300 mg/day)	No formal limits	No formal limits but naturally low
Dairy	Low-fat dairy encouraged	Moderate dairy (yogurt/cheese)	Low to moderate
Red Meat	Strongly limited	Limited	Strongly limited

DASH Diet



Mediterranean Diet

Mediterranean diet Foods to include or limit	
EAT AT EVERY MEAL.	
 <p>Fruits, veggies, whole grains, extra virgin olive oil</p>	
EAT AT LEAST 3 SERVINGS A WEEK.	
 <p>Fish/seafood, nuts, legumes</p>	
LIMIT TO 1 SERVING A DAY.	
 <p>Poultry, low-fat dairy, eggs</p>	
LIMIT TO 1 SERVING PER WEEK.	
 <p>Red meat, sweets</p>	

Mediterranean Diet food list			
Vegetables and tubers	Fruits	Grains	Nuts, seeds and legumes
Acorn squash Artichokes Arugula Beets Bell peppers Broccoli Brussels sprouts Butternut squash Cabbage Carrots Celery Cucumber Eggplant Kale Lettuce Okra Potatoes (red, white, sweet) Radishes Zucchini	Avocados Apples Apricots Bananas Blueberries Cantaloupe Cherries Clementines Dates Figs Grapefruit Grapes Honeydew Olives Oranges Peaches and nectarines Pears Pomegranate Raspberries Strawberries Tomatoes Watermelon	Barley Brown rice Buckwheat Bulgur Couscous Durum Farro Quinoa Millet Oats Polenta Whole-grain bread Whole-grain pasta Wild rice	Almonds Brazil nuts Cannellini beans Chia seeds Chickpeas Fava beans Green beans Flaxseed Hazelnuts Hemp seeds Kidney beans Lentils Pine nuts Pistachios Sesame seeds Sunflower seeds Walnuts

Ultra-Processed Foods (UPFs)

UPFs are independently associated with all-cause and vascular dementia, but not Alzheimer's disease.

- Prospective observational study (n = 72,083), mean age 62 years, median follow-up of 10 years
- 1st quartile 8.6% of diet is UPFs vs. 4th quartile 27.8%
- Hazard ratios 4th vs. 1st quartiles
- All-cause dementia 1.51 (1.16-1.96) $p < 0.001$
- Alzheimer's disease 1.14 (0.81-1.61) $p = 0.51$
- Vascular dementia 2.19 (1.21-3.96) $p < 0.01$

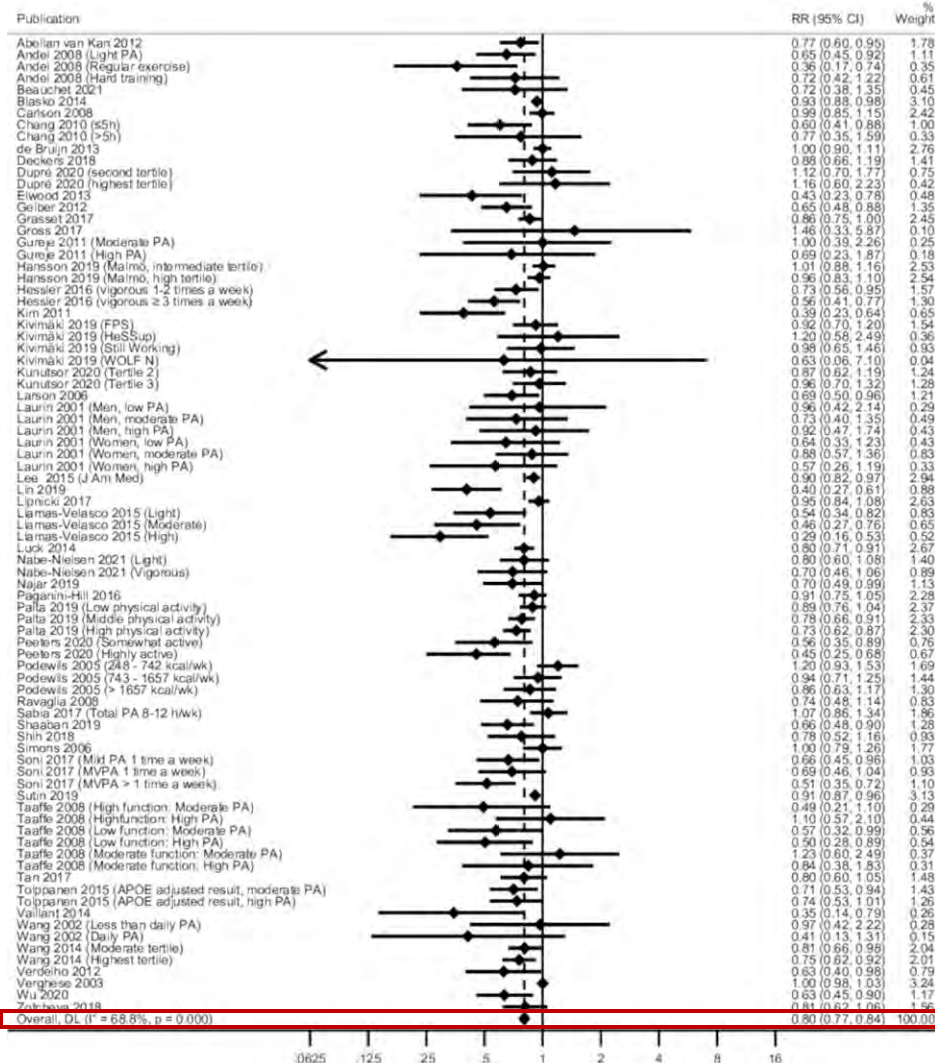
Counseling: Behavioral Change is HARD!

- Always plant the seed; be patient
- Don't underestimate the power of our relationships with our patients to create trust and willingness to follow our recommendations
- Try to understand 'what matters' to the patient and link that to the behavioral change
- Food label literacy
- Buy from the periphery of the supermarket

Nutrition Resources Examples

- Refer to local nutritionist or cooking classes
- In-person or virtual [nutritionist](#) or [culinary medicine](#) through Cleveland Clinic Wellness (216-448-4325)
- Embed smart phrases into EMR
- Mediterranean Diet
 - [Cleveland Clinic](#)
 - [National Lipid Association](#)
- Recipes
 - [Cleveland Clinic](#)
 - [Ohio SNAP-Ed Celebrate Your Plate](#)
- [MIND Diet Tools](#)

Physical Activity



- Meta-analysis 58 prospective cohort studies measuring cognition and physical activity
- Mean follow-up 12.9 years
- Mean baseline age 67.0
- Relative risks
 - All-cause dementia 0.80
 - Alzheimer's disease 0.86
 - Vascular dementia 0.79

Physical Inactivity or Sedentary Behavior

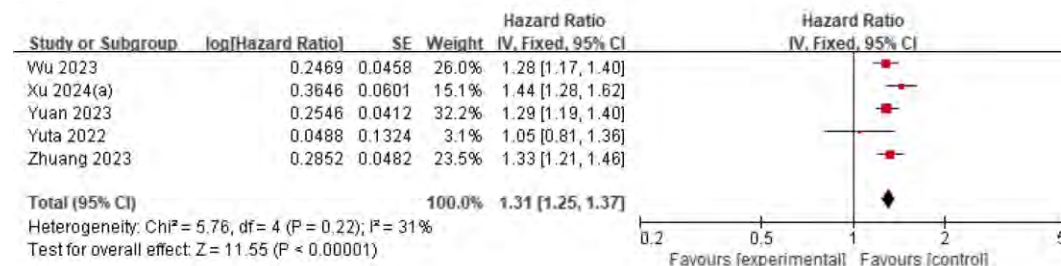
Any activity while awake with energy expenditure ≤ 1.5 METs in a seated or reclined position such as watching TV, driving, or using e-devices



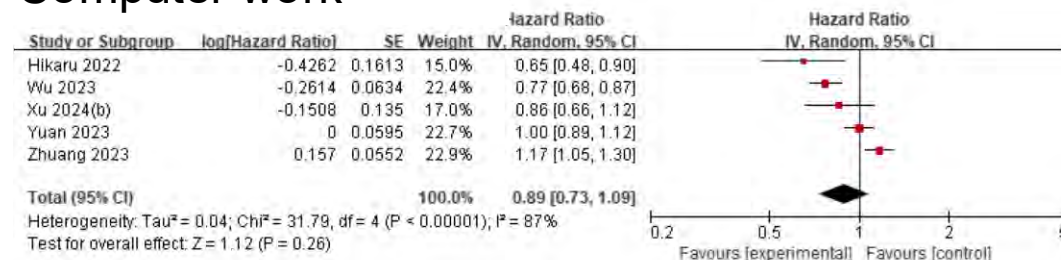
Meta-Analysis of 10 Cohort Studies

Sedentary behavior defined as:

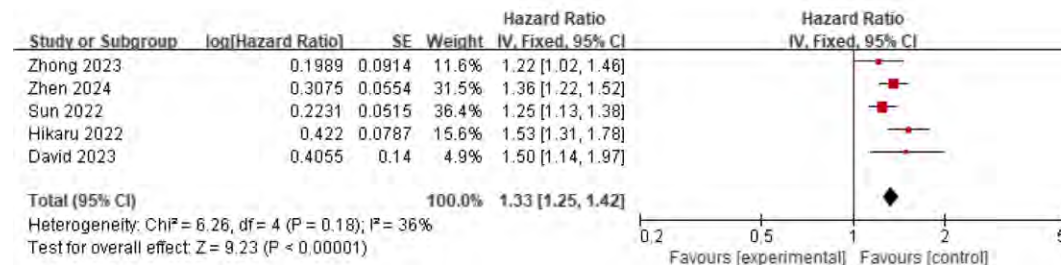
TV viewing



Computer work

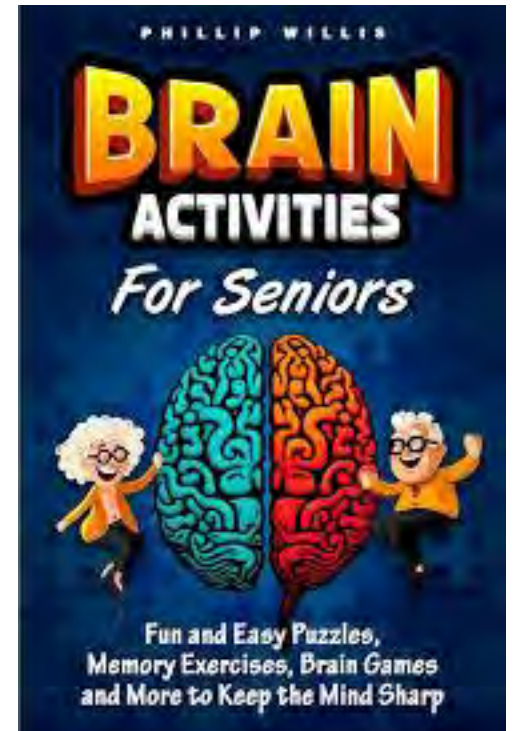


Other definitions



Cognitive Exercise

- AHRQ systematic review of 11 randomized controlled trials (RCTs) for cognitive training in older adults with normal cognition or mild cognitive impairment.
- In healthy older adults, training improved the domain that was trained but did *not* consistently generalize to other domains.
- In mild cognitive impairment, results were mixed and overall low/insufficient strength of evidence.
- “Evidence regarding prevention or delay of cognitive decline or dementia is insufficient.”



Counseling

- Find a buddy
- Write an exercise prescription using the **FITT** Principle:
 - Frequency
 - Intensity
 - Time
 - Type
- Okay to start small!
- “What physical activity gave you joy when you were younger?”

Physical Activity Resources Examples



- Low cost or free classes at local YMCAs, Senior Centers, Community Centers
- YouTube: SeniorShape Fitness With Lauren, Better5.com, SilverSneakers, Yoga With Adriene
- Free live-streamed classes from [Wellness Tools For You](#)
- Free [Cleveland community yoga classes](#)

Sleep Disorders Impact Cognition

- Insufficient sleep syndrome (< 7 hours) decreases memory formation (small effect size 0.29)
- Irregular sleep-wake rhythm associated with worse executive function and working memory
- Insomnia is associated with 24% and 94% greater risk of dementia at mid-life and later-life, respectively
- Obstructive sleep apnea (OSA) is associated with onset of mild cognitive impairment and Alzheimer's disease; treatment improved cognitive function in older adults with OSA and Alzheimer's disease

Counseling and Resources

- Epic SmartPhrases for sleep hygiene

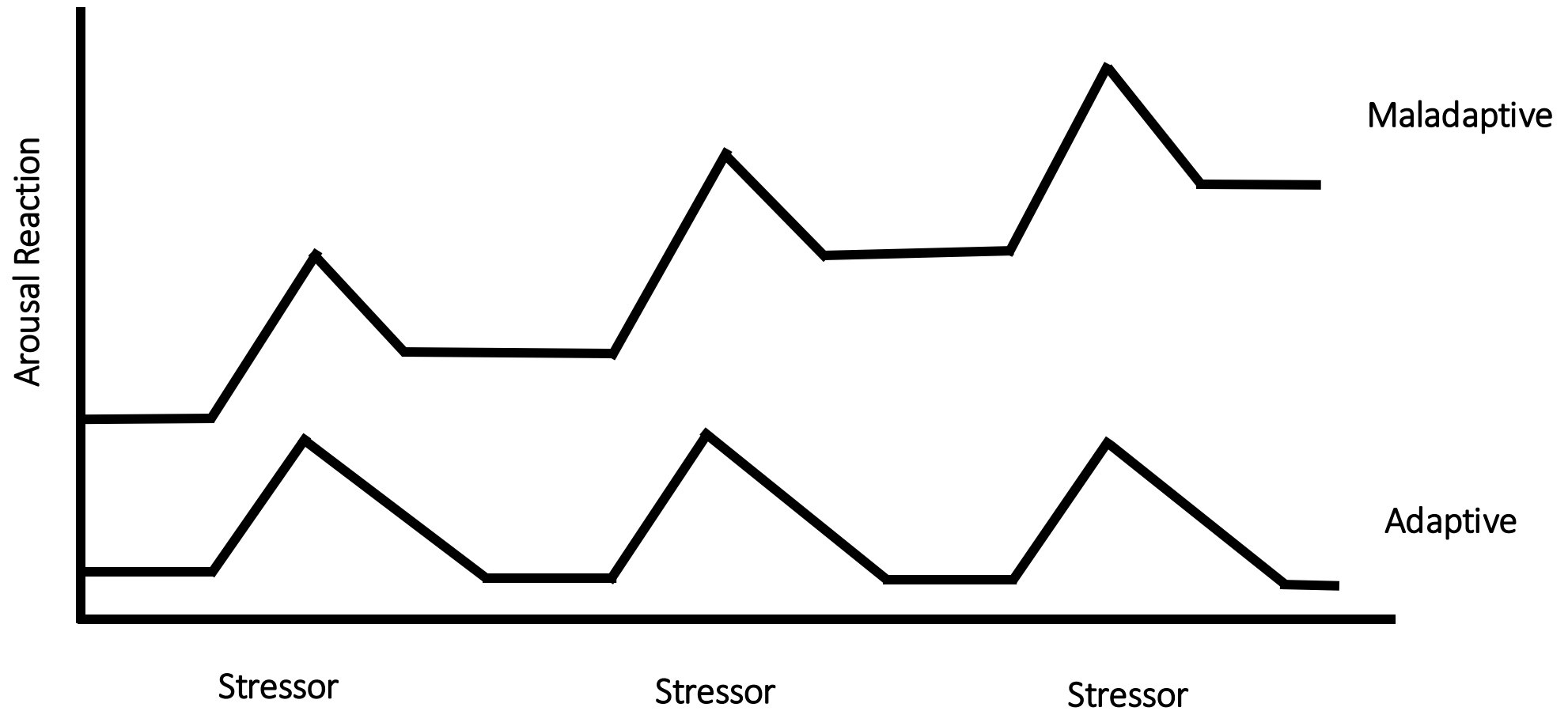
“Good sleep habits include maintaining as much as possible a regular bedtime and wake up schedule; keeping the room cool; doing some non-stimulating nonelectronic wind down activity for 30 to 60 minutes before bed; no naps during the day; and no caffeine after 12 noon. Try not to eat for 3 hours before bed, no alcohol for 2 hours before bed, and no electronics for 1 hour before bed. If you cannot fall asleep or back to sleep after 15 minutes, get out of bed, go to a different room, read a book or magazine quietly for 10-15 minutes and then return to bed. Repeat this cycle until you fall asleep.”

- Insight Timer, Calm, Headspace: great for wind down (e.g., relaxing music, nature sounds, progressive muscle relaxation, Sleepcasts)

Stress

- Stressor: an event or action that causes a state of stress
 - External or internal
 - Controllable or not controllable
- Stress: the experience of or the response to the stressor
 - Often controllable
- Acute stress is not always harmful
- Chronic stress
 - Associated with multiple mental and health conditions
 - May be linked to maladaptive coping mechanisms

Acute and Chronic Stress



Stress and Cognition

Level of Evidence	Key Source	Population	Finding
Level 1a – Meta-analysis	Peavy, et al, Psychoneuroendocrinology, 2012	18 human studies	Higher cortisol → worse memory
Level 1 – Systematic review	Lupien, et al., Nat Rev Neurosci, 2009	Across lifespan	Chronic stress → hippocampal atrophy, memory loss
Level 2 – Prospective cohort	Johansson, et al, BMJ Open, 2013	Midlife women	Repeated stress → ↑ dementia risk
Level 3 – Imaging / mechanistic	Lupien, et al, PNAS, 1998	Older adults	Cortisol predicts hippocampal shrinkage and memory decline

Stress Response and Management

- Mediated by the hypothalamic-pituitary-adrenal axis and the autonomic nervous system
- Stress management techniques (e.g., deep breathing, meditation, yoga, progressive muscle relaxation) likely all work through common pathways
- Small, individual RCTs show benefit in cognition in healthy patients, subjective cognitive impairment, mild cognitive impairment, and patients with dementia
- Safe and reasonable to recommend

What Is Mindfulness?

“Paying attention in a particular way:
on purpose, in the present moment, and non-judgmentally.”

-Jon Kabat-Zinn, PhD

Mind Full or Mindful?



Effects of Mindfulness Practice

Enhances

- **Cognition and focus**
- Creativity
- **Working memory**
- **Attention**
- Compassion

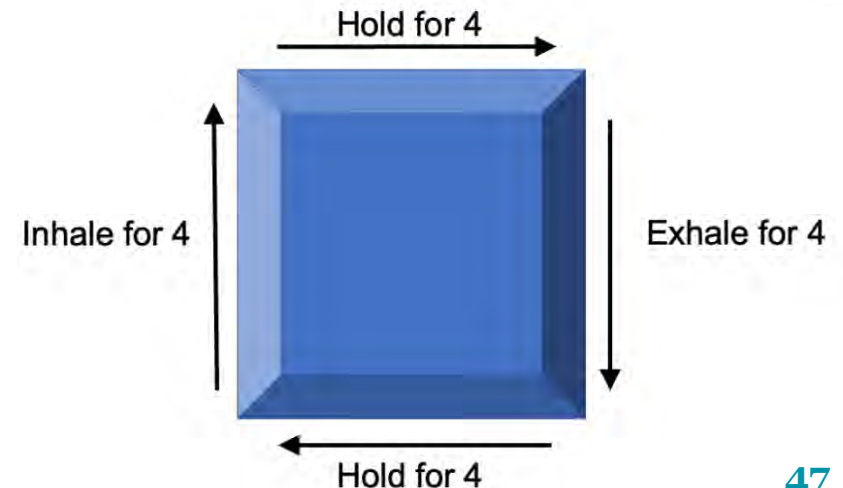
Decreases

- **Stress**
- **Depression and anxiety**
- Implicit age and race bias
- **Distractions**
- Emotional reactivity

Salminen T, et al. Front Hum Neurosci. 2012;6:166; Conversano C, et al. Front Psychol. 2020;11:1683; Greenberg J, et al. PLoS One. 2012;7(5):e36206; Hoge EA, et al. J Clin Psychiatry. 2013;74(8):786-92; Kuyken W, et al. Lancet. 2015;386(9988):63-73. Lueke A, et al. Soc Psychol Personal Sci. 2014; 6(3):284-291; Kerr CE, et al. Front Hum Neurosci. 2013;7:12; Lin Y, et al., Front Hum Neurosci, 2016;10:451.

Counseling

- ‘Stress’ is a term all patients can relate to
- Particularly for subjective cognitive impairment, educate patients on how stress and multi-tasking can result in common forgetfulness
- Educate about the two arms of the autonomic nervous system
- Provide experiential education through leading the patient through slow, deep breathing or one-minute box breath



Stress Management Resources

Examples



- Yoga videos specifically created for individuals at risk for neurological disorders
- Tai Chi and meditation videos
- Mindfulness handout
- Apps: Insight Timer, Calm, Headspace
- Mindfulness-Based Stress Reduction (MBSR) courses

Avoidance of Risky Substances

Tobacco

- Multiple large cohort studies show increased risk of dementia in people who smoke

Alcohol

- Meta-analyses of large cohorts show clear association between heavy drinking and all-cause dementia
- Whitehall Study - 550 adults followed for 30 years. Compared to abstainers, moderate and heavy drinkers had 3x and 6x odds of hippocampal atrophy, respectively

Social Connectedness

- The experience of belonging to a social relationship or network
- Strong human desire for connection
- Disruption or absence impairs functioning
- One-fourth of adults ≥ 65 years old are socially isolated

Loneliness

- Feelings of isolation, disconnectedness, and not belonging
- Subjective vs. Objective
 - Can experience loneliness when with people at work or home
- 2018-2020: Percent of U.S. adults who reported feeling 'always' or 'often lonely' increased from 11% to 13.8%

Likely Associated With Cognitive Decline

- Meta-analysis of 34 cohort studies showing odds ratio of cognitive decline = 1.12 (1.05-1.20)
- High loneliness, infrequent contact, and low group participation increases dementia risk by ~50% on average

Social Prescribing

- Healthcare professionals refer people to a range of vetted, non-clinical community services and activities catered around their interests to support their health and wellness
- Volunteer activities, community groups, exercise groups, arts, nature, purpose-focused activities
- Shifts the conversation from “what is the matter with you?” to “what matters to you?”
- UK has made social prescribing national policy
- Reduced loneliness and improved quality of life

Social Prescribing Volunteer Bank

Resources Examples



Statewide Options

- United Way 211: statewide volunteer and service directory
- VolunteerMatch: interest-based opportunities

Cleveland

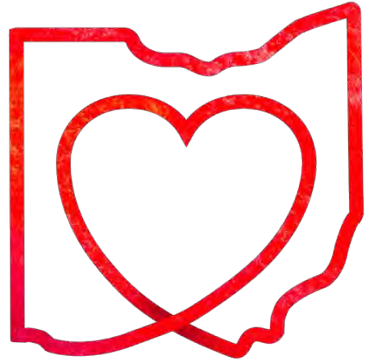
- Greater Cleveland Volunteers
- Business Volunteers Unlimited (BVU)
- Greater Cleveland Food Bank
- Cleveland Metroparks

Cincinnati

- United Way Volunteer Connection
- Cincinnati Cares (Inspiring Service)
- Freestore Foodbank
- Cincinnati Parks

Columbus

- HandsOn Central Ohio
- Besa
- Mid-Ohio Food Collective
- Columbus Recreation and Parks Department



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Multi-Component Lifestyle Intervention Studies

Finnish Geriatric Intervention Study to Prevent Cognitive Impairment and Disability (FINGER)

RCT n = 1,260 adults 60-77 yrs old w/ CAIDE Dementia Score ≥ 6

Intervention group (n=631)
Diet, exercise, cognitive
training, vascular risk
monitoring

Control group (n=629)
Regular health advice

Primary outcome:
Change in cognition measured by Neuropsych Testing. The
improvement in NTB score after 2 years was **25% higher in
intervention group**

Secondary outcomes:
Improvements in executive functioning (**p=0.039**) and
processing speed (**p=0.029**) in intervention vs controls.
Improvements in BMI, dietary habits, and physical activity

Effects of Intensive Lifestyle Changes on the Progression of Mild Cognitive Impairment or Early Dementia Due to Alzheimer's Disease

- 1:1 multicenter RCT 51 adults ages 45-90 with mild cognitive impairment or early dementia due to Alzheimer's disease
- MoCA \geq 18
- 20-week intervention, 4 hours/session, 3 days/week
- Primary outcomes
 - Clinical Global Impression of Change
 - Alzheimer's Disease Assessment Scale
 - Clinical Dementia Rating–Sum of Boxes
 - Clinical Dementia Rating Global

Ornish Intensive Lifestyle Intervention

- Whole food, plant-based diet, high in complex carbohydrates. Meals and snacks sent to patient and partner 2x/week
- Supplements: Omega-3s, multivitamin, CoQ10, vitamin C, vitamin B12, magnesium, Lion's Mane, probiotic
- Aerobic exercise (e.g., walking) 30 mins/day and mild strength exercises 3x/week
- Stress management: meditation, gentle yoga, progressive relaxation, breathing, imagery 1 hour/day
- 1 hour support group 3 days/week
- 1 hour lifestyle lecture 3 days/week

Results and Limitations

- Post-intervention between-group differences
 - Clinical Global Impression of Change ($p = 0.001$)
 - Clinical Dementia Rating–Sum of Boxes ($p = 0.032$)
 - Clinical Dementia Rating Global ($p = 0.037$)
 - Alzheimer’s Disease Assessment Scale - Cog test ($p = 0.053$).
- Limitations
 - Lack of blinding
 - No adjustment of statistical significance for four primary outcomes
 - Lack of CONSORT diagram

Ongoing Lifestyle Prevention Trials



- World-Wide FINGERS
- The AUstralian multidomain Approach to Reduce dementia Risk by prOtecting brain health With lifestyle intervention study (AU-ARROW)
- Canadian Therapeutic Platform Trial for Multidomain Interventions to Prevent Dementia (CAN-THUMBS UP)
- U.S. POINTER trial

Resource: Cleveland Clinic Brain Health & Wellness Shared Medical Appointment



Evidence-based lifestyle program to slow cognitive decline and lower Alzheimer's risk

- 6 group visits, every other week
- Virtual and in-person, reimbursable
- Topics:
 - MIND diet
 - Physical activity
 - Meditation and stress management
 - Sleep hygiene
 - Mental activities
- Medical management and group activity



Ohio patients can call the Department of Wellness & Preventive Medicine at 216-448-4325.

Summary

- Dementia has many causes, can be devastating to the patient and family, and currently cannot be cured
- Lifestyle and behavioral changes may lower dementia risk and slow cognitive decline
- This may be mediated through modifiable risk factor optimization and/or possible direct mechanisms to date unknown
- Prescribe lifestyle modification to patients at risk of dementia and those with subjective cognitive impairment or early mild cognitive impairment



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Audience Question and Answer

Amy Zack, MD

Case Western Reserve University School of Medicine

Speakers

REMINDER:
Submit questions using the 'Q&A' feature



Robert B. Saper, MD, MPH
Case Western Reserve University
Cleveland Clinic



Amy Zack, MD (Moderator)
Case Western Reserve University
Cleveland Clinic



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Next Steps and Wrap Up

Shari Bolen, MD, MPH
Case Western Reserve University School of Medicine

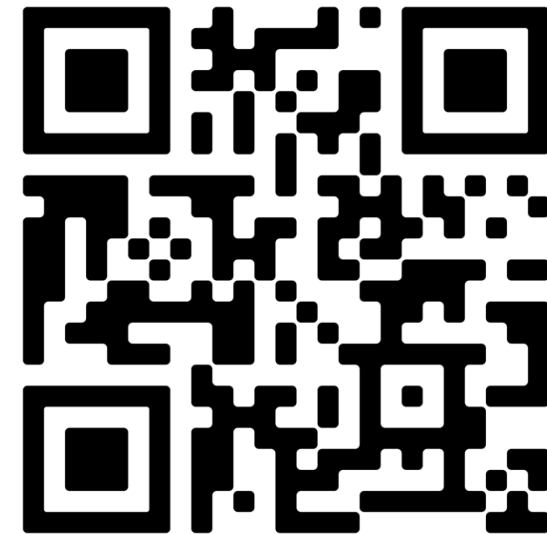
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From Prescription to Practice: Tackling Adherence Challenges in Clinical Care

Wednesday, February 25, 2026 | 12-1 p.m. ET



KEYNOTE SPEAKER

M. Robin DiMatteo, PhD

Distinguished Professor, Psychology
University of California, Riverside

OBJECTIVES

- Identify key components of successful treatment adherence
- Understand barriers to treatment adherence
- Employ practice and communication changes to improve overall treatment adherence in patient panels



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CME Credit Available



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