

Reduce Your Risk of Cognitive Decline as You Age



3



Event Materials

Visit the event page to download a copy of the presentation slides and any additional resources.

Continuing Education

This webinar has been approved to offer continuing education credit. Please stay tuned for more information!

https://oneop.org/learn/160011/



Today's Presenters



Jenna Anding, PhD, RD, LD

Professor & Extension Specialist Department of Nutrition Texas A&M AgriLife Extension Service



Andrew Crocker

Senior Program Specialist, Gerontology & Health Family & Community Health Texas A&M AgriLife Extension Service

https://oneop.org/learn/160011/

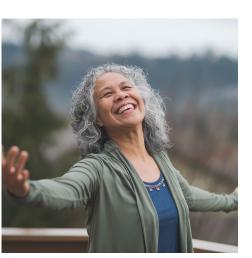


REDUCE YOUR RISK OF COGNITIVE DECLINE AS YOU AGE



IN THIS SESSION

- Trends in aging
- Cognitive changes as we age
 - What's normal and what's not
- What we can do to promote brain health (cognition) as we age
 - Diet (Jenna Anding)
 - Self care (Andy Crocker)



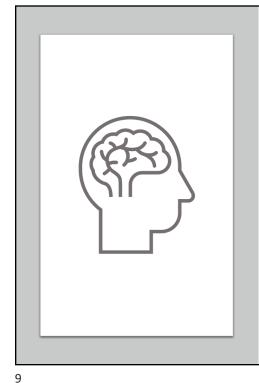
Aging & Brain Function

- Aging may be generally characterized by
 - Slowing of cognitive performance (-)
 - Decrease in mental flexibility (-)
 - Independence in ADL and IADL (+)
 - Retention of verbal abilities and vocabulary (+)

ADLs and IADLs

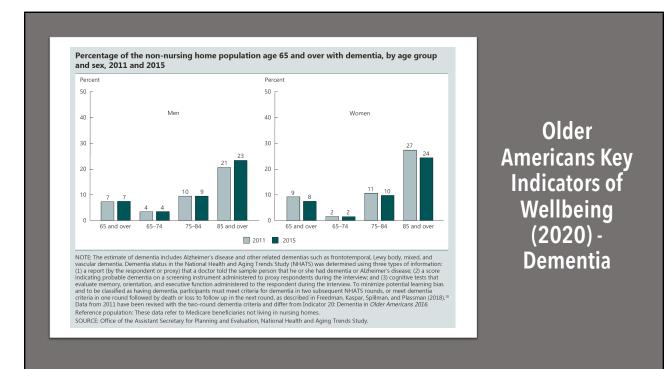
- Inability to perform IADLs typically precedes inability to perform basic ADLs
- Inability to manage finances may be one of the earlier IADL changes suggestive of dementia

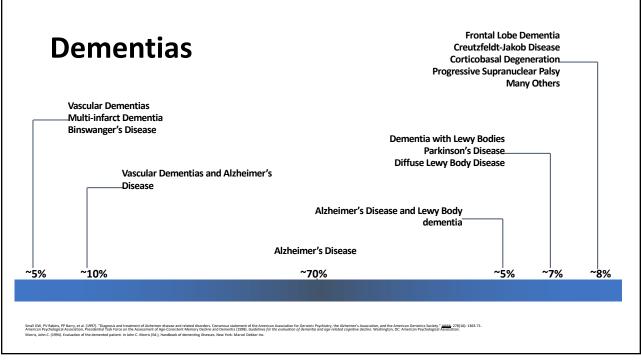
8

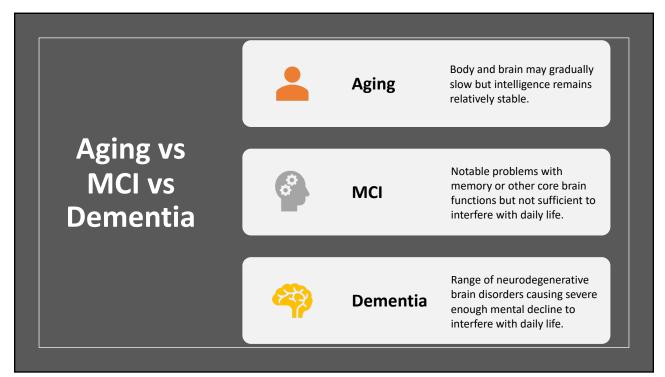


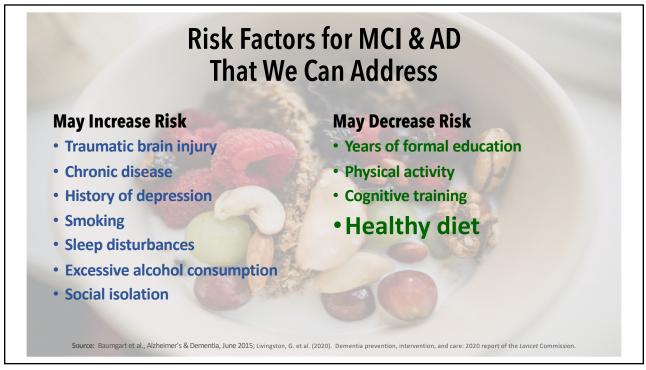
Dementia

- General term for a variety of neurodegenerative conditions that cause progressive cognitive and behavioral impairments
- Type of dementia and symptoms depend on which regions of the brain are damaged
- Dementia is not part of the normal aging process
- Some symptoms are potentially caused by treatable conditions



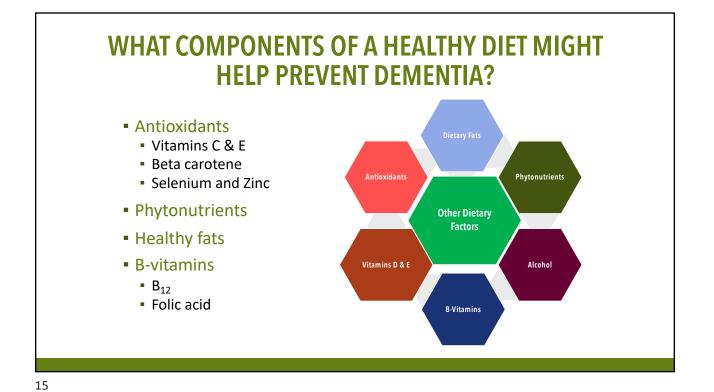


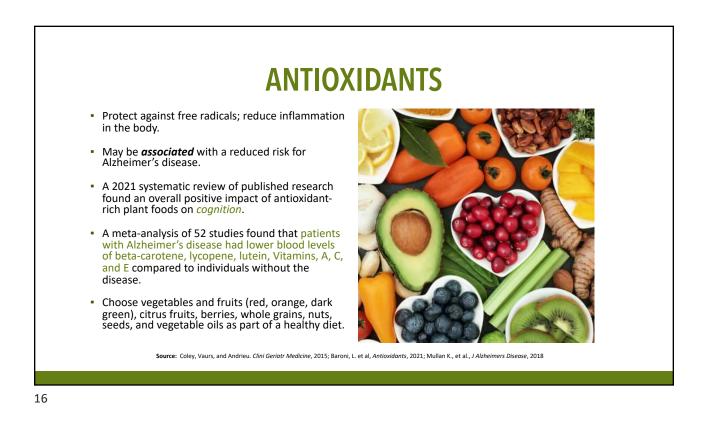


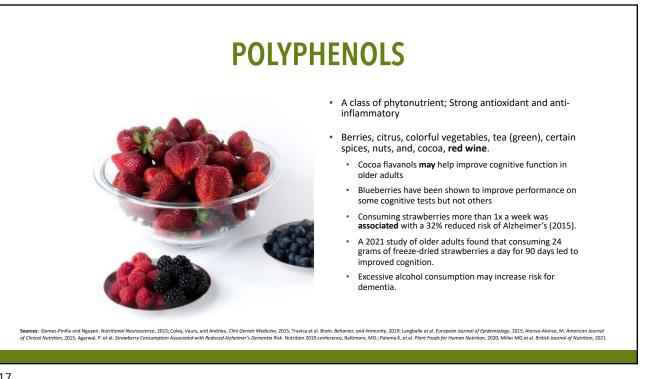




LET'S CHAT ABOUT IT: HOW WOULD YOU DESCRIBE A TYPICAL AMERICAN DIET?



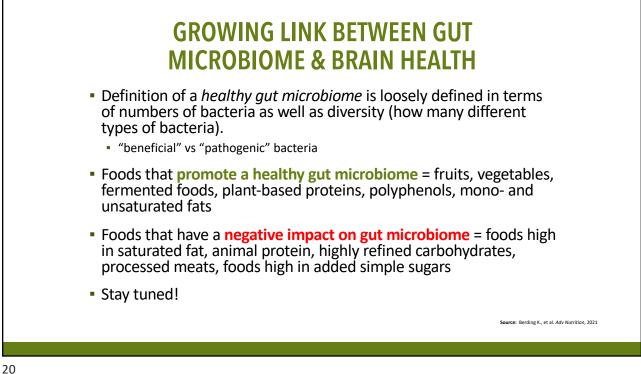


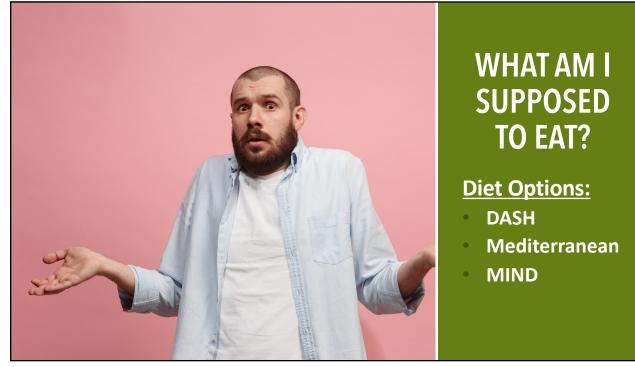




B-VITAMINS (FOLATE, B₆, & B₁₂)

- Homocysteine a type of amino acid found in the blood.
- High homocysteine levels in the blood are linked with increased risk for heart disease as well as cognitive decline.
 - B-vitamins (B₆, B₁₂, and folate) can help lower homocysteine levels in the bloodB₆ include chickpeas, potatoes, bananas, and fortified cereals
 - B₁₂ include beef, fish, clams, and fortified cereals
 - Folate include liver, spinach, peas, fortified cereals, asparagus, and Brussels sprouts
 - Supplements may reduce homocysteine levels but have not been proven effective in preventing or delaying the onset of dementia.





Dietary Approaches to Stop Hypertension Diet

Originally designed to promote healthy blood pressure

- 8 to 10 servings of fruits and vegetables per day*
- 2 to 3 servings of low-fat dairy
- Healthy fats
- 6 to 8 servings of grains per day
- 2300 mg sodium (from food and added)
- 3-6 servings of nuts and seeds per week
- No more than 5 servings of sweets/week



* Based on a 2,000 calorie diet

BENEFITS OF THE DASH DIET



- Has been shown to reduce systolic and diastolic blood pressure
 - Recommended by the AHA for the non-pharmacological mgmt.
 of hypertension
- Linked with lower total and LDL-cholesterol levels and overall reduction in heart disease risk by as much as 20%
- Improvements in insulin sensitivity and inflammation
- Possible neuroprotective benefits; associated with a reduced risk of cognitive decline in some studies but not others
 - Impact on blood pressure and reduced risk of vascular dementia

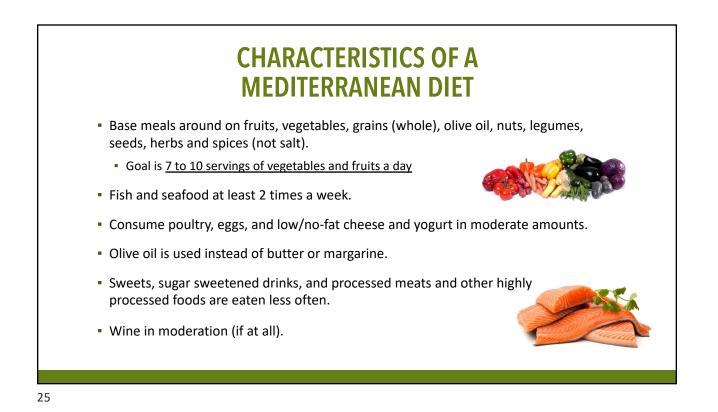
Sources: Siervo et al., British Journal of Nutrition, 2015; Salehi-Abargouei et al., Nutrition, 2013; Juraschek et al. J Am College Cordiology, 2017; Samadi M et al, Neurological Sciences, 2019; van den Brink et al., Advances in Nutrition, 2019; Daniel GD, et al. Clinical Nutrition SPEN, December 2021; Hosseinpour-Niazi S. et al., Nutr Metab (Lond), 2022.

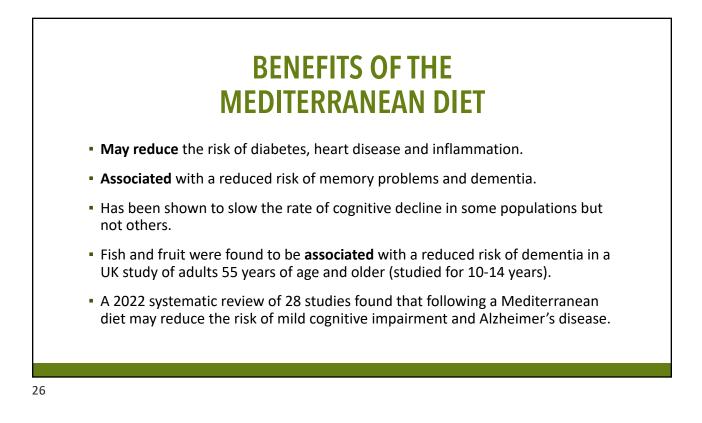
23



MEDITERRANEAN DIET

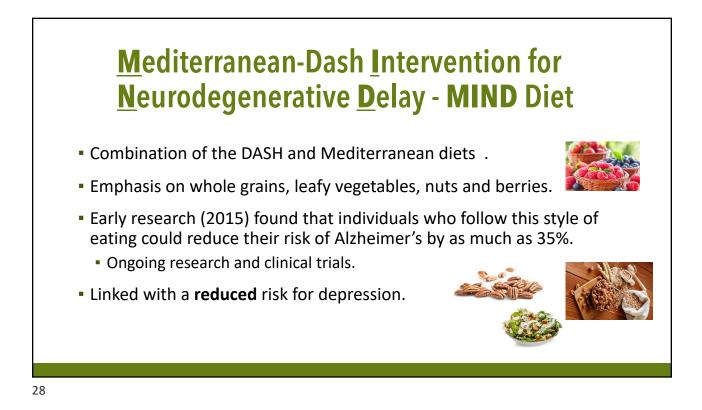
- No single Mediterranean diet but they all share similar characteristics.
- Benefits of the diet first reported ~40 years ago.





BENEFITS OF THE MEDITERRANEAN DIET

- A higher adherence of the Mediterranean diet was related to better memory in a group of 512 adults in Germany with varying levels of cognitive health.
- A 2021 meta-analysis of studies of older adults (60+) found that high adherence to a Mediterranean diet was associated to reduced risk of cognitive decline in older adults without dementia.
- In a study of 612 adults across 5 European countries, adherence to a Mediterranean diet was **associated** with changes in the gut microbiome and was positively associated with indicators of reduced frailty and improved cognitive function.



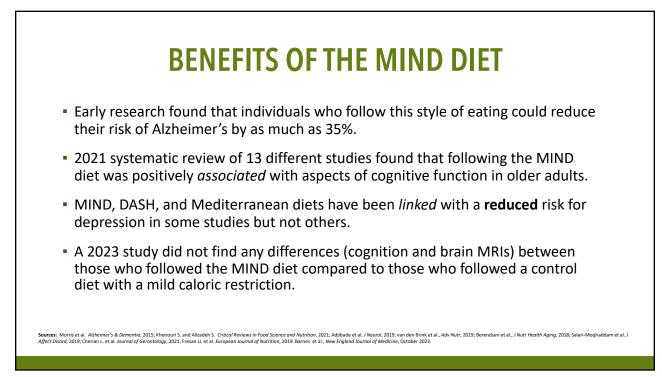
WHAT IS IN THE MIND DIET?

PER DAY

- >3 servings of whole grains
- 1 serving of dark leafy greens (salad)
- > 1 serving of "other" vegetables
- 2 tablespoon extra virgin olive oil
- < 1 tablespoon butter/margarine</p>
- 1 glass of wine/alcohol (optional)

PER WEEK

- 5 ½-cup servings of berries
- >1 serving of fish (at least one)
- >2 or more servings of poultry
- 3 servings of beans (1/2 cup = serving)
- 5 servings of nuts (1 ounce = serving)
- Up to 3 servings of red meat per week
- Up to 2 ounces of cheese per week
- No more than 4 servings of sweets
- < 1 serving of fried/fast food</p>



Limitations To The Research On Diet & Cognition

- How dietary intake was measured and how often (longitudinal studies)
- How cognitive function was assessed (memory, processing, language, global cognition and more)
- Ages of the subjects in the studies; comorbidities; cognitive function; location of the study
- Race/ethnic differences



Feeding Your Brain – Where Do I Start?

- Increase vegetable and fruit intake.
 - Dark red, orange and green veggies
 - Include berries (goal of at least five times a week)
- Choose healthy fats over saturated and trans fats.
- Choose highly processed/refined carbohydrates less often.
- Progress, not perfection.
- Don't wait until you are "older" to start.

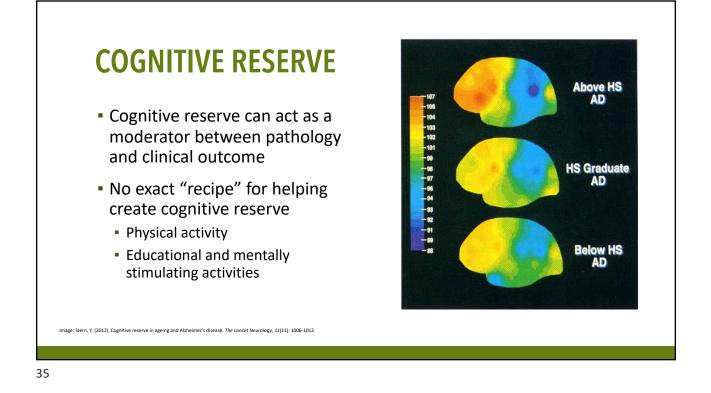
The secret to getting ahead is getting started. ~Mark Twain

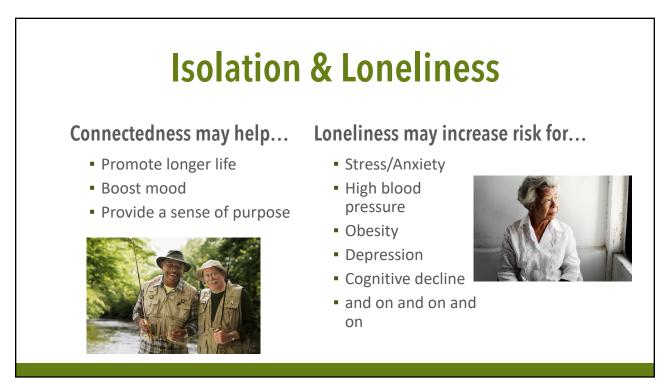
Can Dietary Supplements Stop Cognitive Decline?



- \$>3 billion dollars are spent each year globally
- Includes vitamins, minerals, herbs, and other substances
- No real evidence that they improve brain health or prevent cognitive decline
- Not regulated in the same manner as prescription medications
- Dietary supplements can interfere with prescription medications
- Dietary supplements may include excessive doses of vitamins or minerals.
- Be aware of claims that a supplement is "clinically proven"
- If it sounds too good to be true, it probably is. Save your money!







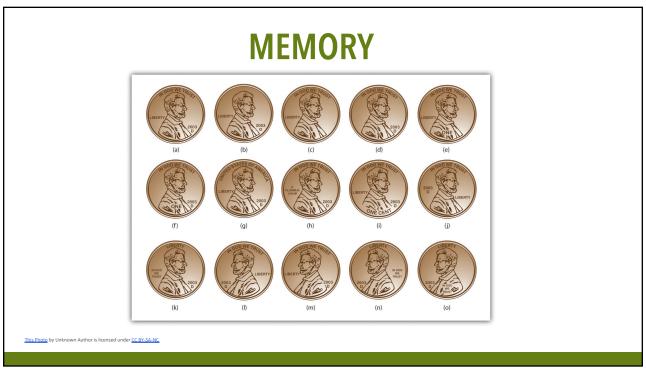
Cognitive Training

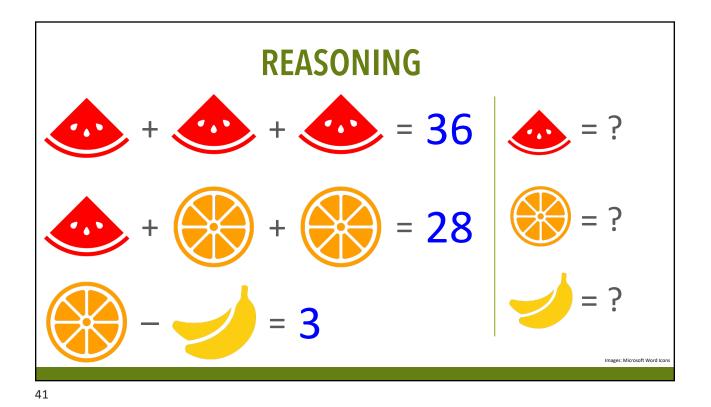
- Cognitive training has been shown to improve cognitive abilities in older adults
 - Memory
 - Reasoning
 - Speed of processing
- Group training improved scoring on cognitive skills testing
 - Higher ratings of self-efficacy
 - Less anxiety
 - Problem-solving with a peer group can be motivating











REASONING

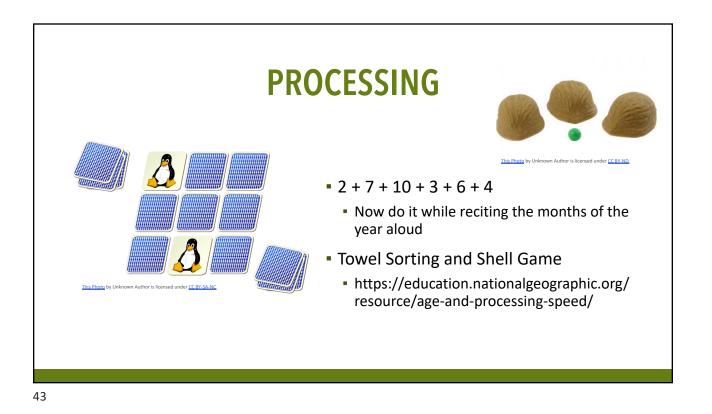
Finish the series: a c e g i...

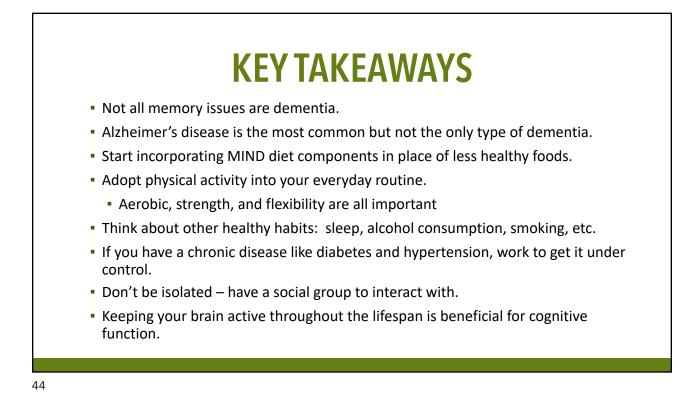


To reduce the % daily value of sodium by half, how much of the product should be consumed?

 How many grams of product are in 3.5 servings?

5	3			7				
6			1	9	5			
	9	8					6	
8				6				3
4			8		3			1
7				2				6
	6					2	8	
			4	1	9			5
				8			7	9







What Questions Would You Like To Ask?



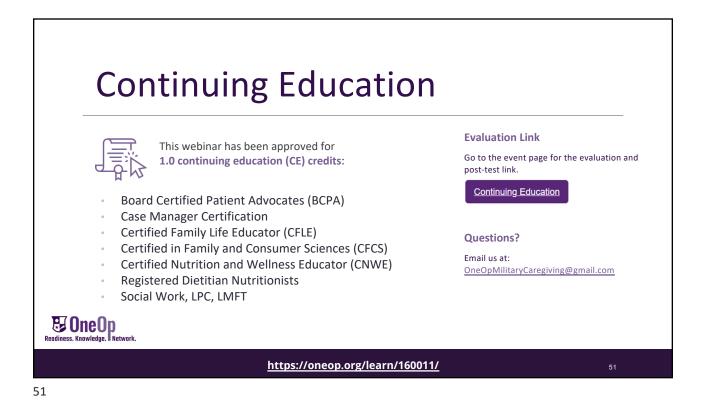


REFERENCES · Siervo M, Lara J, Chowdhury S, Ashor A, Oggioni C, Mathers JC. Effects of the Dietary Approach to Stop Hypertension (DASH) diet on cardiovascular risk factors: a systematic review and meta-analysis. Br J Nutr. 2015 Jan 14;113(1):1-15. doi: 10.1017/S0007114514003341. Epub 2014 Nov 28. PMID: 25430608. Salehi-Abargouei A, Maghsoudi Z, Shirani F, Azadbakht L. Effects of Dietary Approaches to Stop Hypertension (DASH)-style diet on fatal or nonfatal cardiovascular diseases--incidence: a systematic review and meta-analysis on observational prospective studies. Nutrition. 2013 Apr;29(4):611-8. doi: 10.1016/j.nut.2012.12.018. PMID: 23466047. Stephen P. Juraschek, Edgar R. Miller, Connie M. Weaver, Lawrence J. Appel, Effects of Sodium Reduction and the DASH Diet in Relation to Baseline Blood Pressure, Journal of the American College of Cardiology, Volume 70, Issue 23, 2017, Pages 2841-2848, ISSN 0735-1097, https://doi.org/10.1016/j.jacc.2017.10.011 Samadi M, Moradi S, Moradinazar M, Mostafai R, Pasdar Y. Dietary pattern in relation to the risk of Alzheimer's disease: a systematic review. Neurol Sci, 2019 Oct:40(10):2031-2043, doi: 10.1007/s10072-019-03976-3, Epub 2019 Jun 25, PMID: 31240575. Ballarini T, Melo van Lent D, Brunner J, Schröder A, Wolfsgruber S, Altenstein S, Brosseron F, Buerger K, Dechent P, Dobisch L, Duzel E, Ertl-Wagner B, Fliessbach K, Freiesleben SD, Frommann I, Glanz W, Hauser D, Haynes JD, Heneka MT, Janowitz D, Kilimann I, Lask C, Maier F, Metzger CD, Munk M, Perneczky R, Peters O, Priller J, Ramirez A, Rauchmann B, Roy N, Scheffler K, Schneider A, Spottke A, Spruth EJ, Teipel SJ, Vukovich R, Wiltfang J, Jessen F, Wagner M; DELCODE study group. Mediterranean Diet, Alzheimer Disease Biomarkers and Brain Atrophy in Old Age. Neurology. 2021 May 5;96(24):e2920-32. Ghosh TS, Rampelli S, Jeffery IB, Santoro A, Neto M, Capri M, Giampieri E, Jennings A, Candela M, Turroni S, Zoetendal EG, Hermes GDA, Elodie C, Meunier N, Brugere CM, Pujos-Guillot E, Berendsen AM, De Groot LCPGM, Feskins EJM, Kaluza J, Pietruszka B, Bielak MJ, Comte B, Maijo-Ferre M, Nicoletti C, De Vos WM, Fairweather-Tait S, Cassidy A, Brigidi P, Franceschi C, O'Toole PW. Mediterranean diet intervention alters the gut microbiome in older people reducing frailty and improving health status: the NU-AGE 1-year dietary intervention across five European countries. Gut. 2020 Jul;69(7):1218-1228.











ETHICS

Ethics in Action: Concepts, Practice, & Context December 6, 2023, 11 AM – 12:00 PM ET

In this educational webinar, join us to delve into the realm of ethics and professional practice, with a special focus on ethical considerations relevant to professionals dedicated to enhancing family readiness and well-being within the military setting.



For archived and upcoming webinars visit: OneOp.org/AllEvents/

https://oneop.org/learn/160013/

