

Meeting the Nutritional Needs of Older Adults

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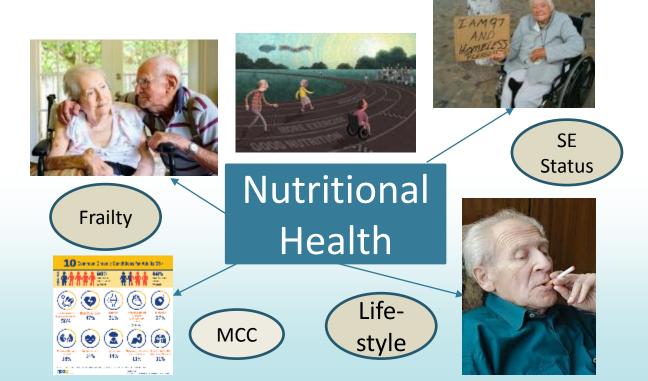


Learning Objectives Special nutrition considerations and physiologic changes in older persons that impact their nutritional status.

Sarcopenia and chronic disease management with nutritional implications.



Determinants of Nutritional Health in Older Adults



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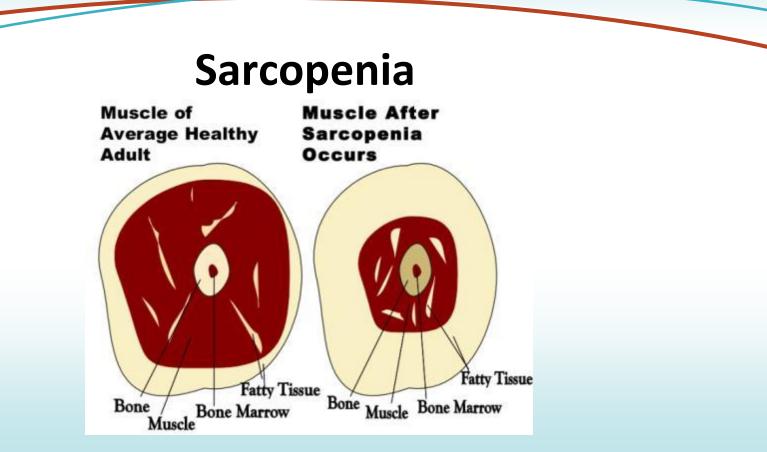
Nutritional Concerns of Older Adults

Undernutrition

- □ Micronutrients
- □ Macronutrients
- Protein-CalorieMalnutrition
 - Sarcopenia
 - Underweight
 - □ Frailty





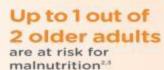


MALNUTRITION: AN OLDER-ADULT CRISIS

Just 4 steps can help improve older-adult malnutrition care



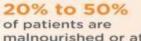






300% The increase in healthcare costs that can be attributed to poor nutritional status"





malnourished or at risk for malnutrition on hospital admission⁴

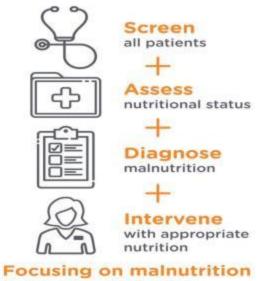
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4 to 6 days How long malnutrition increases length of hospital stays³

Chronic health conditions lead to increased malnutrition risk



Malnutrition leads to more complications, falls, and readmissions⁶



in healthcare helps:

- Decrease healthcare costs'
- Improve patient outcomes'
- Reduce readmissions
- Support healthy aging
- Improve quality of healthcare

Support policies across the healthcare system that defeat older-adult malnutrition. Learn more at www.DefeatMalnutrition.Today

References: 1. Snider JT, et al. JPEN J Parentar Enteral Nutr. 2014;38(2 suppl):775-855; 2. Kaiser MJ, et al. J Am Genatr Soc. 2010;58(9):1734-1738. 3. Izawa 5. et al. Clin Nutr. 2006;25(5):962-967 4. Barker LA, et al. Int J Environ Res Public Health. 2011;9(2):514-527; 5. Correia MI, et al. Clin Nutr. 2005;22(3):235-239; 6. Norman K, et al. Clin Nutr. 2008;27(1):5-15; 7. Philipson TJ, et al. Am J Manag Care. 2015;19(2):121-128.





Vitamin and Minerals

□Vitamin B12

□Vitamin D

□lron

□ "Various antioxidants"



Oxidative Stress and Free Radical Scavengers





Red Apples **Bell Peppers** Cherries Cranberries Grapes Radishes Raspberries Plums Strawberries Tomatoes Watermelon

Orange Apricots **Bell Peppers** Butternut Squash Cantaloupe Carrots Mangoes Oranges Papaya Pumpkin Sweet Potatoes Yams

Yellow Apples Avocados Bananas **Bell Peppers** Cabbage Cauliflower Celery Kiwi Lemons Limes Onions Pears Pineapple Squash

Green Artichokes Asparagus Broccoli Brussels sprouts Collard Greens Cucumbers Grapes Green Beans Honeydew Leeks Lettuce Peas Spinach Swiss Chard Turnip greens

Blue Beets Blackberries Blueberries Cabbage Cherries Currants Eggplant Grapes Plums



Macronutrients Protein Lipids Carbohydrates



Foods (Healthy Only)

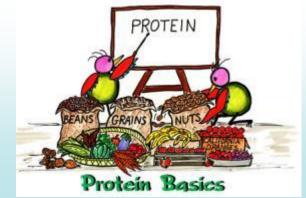
□ Protein

□High quality











High Quality: Essential Amino Acids

соон H₂N-C-H СН СН₃ СН₂CH₃

Isoleucine (ile)

Essential amino acids with hydrocarbon R-groups H₂N-C-H CH CH₃CH₃ Valine (val)

COOH H₂N-C-H CH₂ O Phenylalanine (phe) COOH H₂N-C-H CH₂ CH CH₃ CH₃ Leucine (leu)



Fats--Unsaturated and Saturated





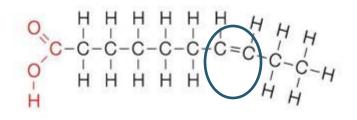


Fats: Saturated and Unsaturated

Saturated

Fatty Acids

Unsaturated

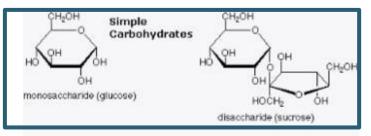




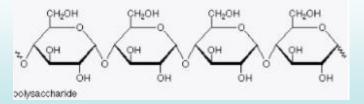
Foods: Carbohydrates

Simple





Complex Carbohydrates

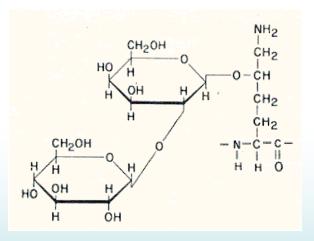




Foods: Carbohydrates

Complex











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Preventing Nutritional Problems

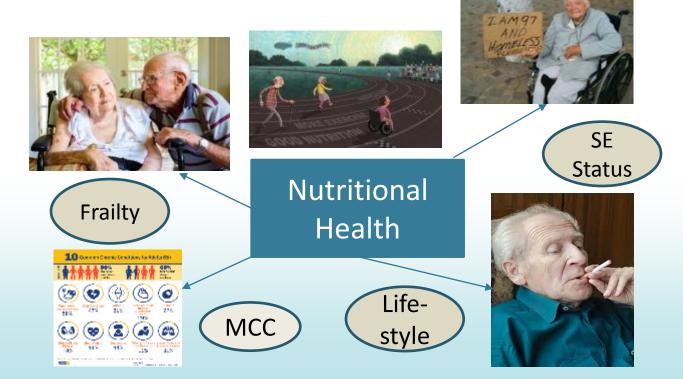
- Checking weight periodically (assessment)
 - □ Loss of >5% in 6 months is **RED flag**
- □ Balanced diet-flavorful ("hedonistic")
- Adequate hydration and fiber
- □ Vitamin/mineral supplements (if chronically ill)
- Nutritional supplements (acute illness/PCM)
- Vitamin D and Calcium (osteoporosis)
- Socialization—meals with others





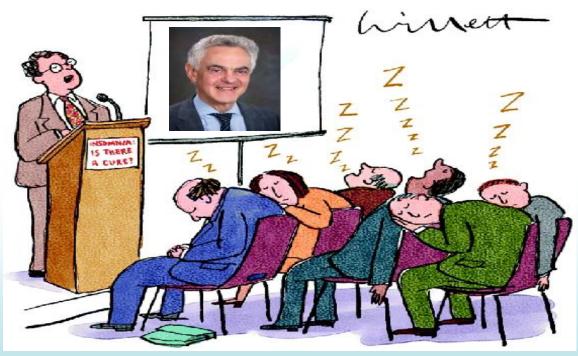


Determinants of Nutritional Health in Older Adults





A Happy Ending



ANY QUESTIONS?



Readings

- Hill TR et al. What do we know about the nutritional status of the very old? Proceedings of the Nutrition Society 2016; 75:420-430
- Meyyazhagan S. Palmer RM. Nutritional requirements with aging. Clin Geriatr Med 2002; 18:557-576
- Kaiser MJ et al. Frequency of malnutrition in older adults. J Am Geriatr Soc 2010; 58:1734-1738