THE STATE OF Older Adult Food Insecurity



The unprecedented growth in North Carolina's older adult population and the COVID-19 pandemic have exacerbated the issues of older adult food insecurity and malnutrition, increased the number of older adults needing food and nutrition services, and complicated the ability for existing programs to provide services to older adults in need.

This document, with key data on state demographics, food insecurity and malnutrition, is intended to function as a catalyst for the development of action plans and coordinated efforts of partner organizations and agencies to help address these issues among older adults in North Carolina.

State Demographics & Characteristics of Older Adults in North Carolina

POPULATION DEMOGRAPHICS OF OLDER ADULTS IN NC (2020)¹



- Ranked ninth in the US for total population and eighth in population of age 65 and older
 - 17% (1,760,844) of 10,456,593 total population
 23% (2,406,444) of 10,456,593 were age 60+

As of 2019, the population of persons over 60 is now larger than the population of persons under 18 years of age.

- By 2028, one in five North Carolinians will be 65+
- In the next two decades, the 65 and older population will increase from 1.7 to 2.7 million, **a projected growth of 52%**.
- Projected growth among the age groups 65-74 (25%), 75-84 (88%) and 85+ (116%) indicates that **there will be an increased proportion of older adults in the state**, creating challenges for long-term services & supports.

HEALTH CHARACTERISTICS OF OLDER ADULTS IN NC (2020)^{2,6}



nave at least one chronic condition



have 2 or more chronic conditions





FACTORS CONTRIBUTING TO OLDER ADULT FOOD INSECURITY AND MALNUTRITION³

- Poverty
- Racial and ethnic minorities
- Chronic conditions
- Disabilities
- Food deserts

- Transportation/ Mobility challenges
- Living alone
- Living with grandchildren
- Social isolation

DEFINITIONS^{4,5}

Food Insecurity is a household-level economic and social condition of limited or uncertain access to adequate food. (USDA)

Malnutrition is deficiencies, excesses or imbalances in a person's intake of energy and/or nutrients. (WHO)

Hunger is prolonged, involuntary lack of food, discomfort, weakness, illness. An individual-level physiological condition that may result from food insecurity. (USDA)





2% live below the poverty line



live in single person households

42% of the estimated 87,329 grandparents responsible for grandchildren under 18 were age 60+

Food Insecurity

Studies indicate a correlation between household food insecurity and a decline in functional health, creating barriers to self-care management for those with chronic conditions. This increases the possibility of negative disease outcomes and greater high-cost healthcare utilization.¹⁰

In 2019, **177,967** (7.5%) of

older adults age 60 and older in NC were food insecure.¹ In 2020, NC had the 14th highest rate of food insecurity in the US.³

Cost Comparisons (North Carolina)⁶

One congregate meal: \$8.85

One day in a hospital: \$2,236

One home-delivered meal: \$9.84

• One day in a nursing home: \$240





Number of Older Adults Served by Older Americans Act (OAA) Nutrition Program in 2020⁷

- Congregate Meals: 23,177
- Home Delivered Meals: 19,829



USDA Food and Nutrition Service (FNS) Statistics (Feb. 2021)⁸

- NC Participation Rate among eligible 55+: **59%**
- NC monthly allotment average 55+: \$108.51

USDA Supplemental Nutrition Assistance Program (SNAP) reduces nursing home admission and hospitalization rates⁹





Many low income older adults face spending trade-offs that can lead to and worsen food insecurity (e.g. housing, utilities, transportation, health care)

11, 12 & adapted with updated data

NC PROGRAMS ADDRESSING OLDER ADULT FOOD INSECURITY

Senior Nutrition Program

- Congregate nutrition program
- Home-delivered meals program
- Supplemental Nutrition Assistance Program (SNAP)
- Commodity Supplemental Food Program (CSFP)
- · Food Banks and food pantries
- Farmers Markets, community gardens
- Senior Farmers Market Nutrition Program
- · Local food policy councils
- Faith-based groups (e.g. NCBAM – Serving Hope)



Though helpful, these programs are not currently able to fully meet the needs of the North Carolina's food insecure older adults. Poor health can be both a cause and a consequence of food insecurity for seniors.



Disability and disease contribute to employment instability and income challenges.



DISEASE MANAGEMEN CHALLENGES

Inadequate nutrition

FAILURE

can increase the negative effects of disabilities and chronic health conditions.

Food-insecure seniors are more likely to have chronic health conditions.



Malnutrition

Malnutrition is an under-recognized but growing health crisis for older adults in the US and a burden to the state economy. There are currently no national or state public health goals on malnutrition, and malnutrition quality measures are not included in quality incentive programs.¹³



REDUCED

C 0 5

\$140,348,592 = annual costs

of disease-associated malnutrition for adults 65+ in NC¹⁴

Hospital nutritional interventions substantially improve patient outcomes and reduce costs^{15,16}

- 22% reduction in length of stay
- 71% reduction in lost hospital revenue per patient
- 17% reduction in readmission costs
- 5% reduction in readmission rate

UNC Hospitals BRIDGE Study ^{17, 18} • Building Resilience InDependence for Geriatric

- Patients in the ED • Over 50% of Emergency
- Department (ED) patients age 65+ were malnourished or at risk
- of malnutrition
- Over half of these patients had not been diagnosed previously
- Phase 1: identifying malnutrition and food insecurity screening tools for ED and completing feasibility testing
- Phase 2: partnering with Area Agencies on Aging to help patients at risk for malnutrition and food insecurity

Recent Updates

JUST 4 STEPS CAN HELP IMPROVE OLDER ADULT MALNUTRITION CARE

- The reauthorization of the Older Americans Act added malnutrition screening and prevention
- The new Dietary Guidelines for Americans added older adults and mentioned malnutrition and sarcopenia for the first time



MALNUTRITION: AN OLDER ADULT CRISIS



Opportunities for Involvement



- · Educate and raise awareness about older adult food insecurity and malnutrition
- Support community partners and promote community nutrition and food access
- Strengthen SNAP policies for older adults
- · Support SNAP-Ed, SNAP Outreach, simplify application process
- · Advocate for increases to NC Senior Farmers Market Nutrition Program funding
- · Implement improvements to discharge planning so health plans include providing nutritious meals
- Strengthen Food Security Screening Referral Process
- State policy actions, including:
 - Recognition of Malnutrition Awareness Week through a resolution/proclamation
 - Inclusion of malnutrition care in state healthcare quality improvement initiatives
 - Establishment of a malnutrition prevention commission for older adults
- Bring together government, private sector, nonprofits, philanthropic, and other groups working on solutions GET INVOLVED IN THE NC SENIOR HUNGER INITIATIVE

REFERENCES

- 1. NC Division of Aging and Adult Services (2022). North Carolina is Aging! www.ncdhhs.gov/media/14887/open
- 2. Ibid.
- 3. Ziliak, J.P. & Gundersen, C.G. (2022). The state of senior hunger in America. Retrieved from <u>www.feedingamerica.org/sites/default/</u> files/2022-05/The%20State%20of%20Senior%20Hunger%20in%202020_ Full%20Report%20w%20Cover.pdf
- 4. USDA ERS. (2020). Definitions of Food Security. Accessed June 26, 2021. www.ers.usda.gov/topics/food-nutrition-assistance/food-security-in-theus/definitions-of-food-security.aspx.
- 5. World Health Organization. (2020). What is Malnutrition? Accessed June 26, 2021 www.who.int/news-room/q-a-detail/malnutrition.
- 6. Meals on Wheels (2021). North Carolina fact sheet. <u>www.mealsonwheels</u> america.org/docs/default-source/fact-sheets/2021/2021-state/northcarolina-2021.pdf?sfvrsn=67bdb23b_2
- 7. Ibid.
- 8. U.S. Census Bureau. (2021). 2019 American Community Survey 5-year Estimates Detailed Tables. Age by ratio of income to poverty level in the past 12 months. Retrieved from <u>https://data.census.gov/cedsci/</u> all?q=TableID%3A%20B17024&tid=ACSDT5Y2019.B17024
- Carlson, S. & Keith-Jennings, B. (2018). SNAP is linked with improved nutritional outcomes and lower health care costs. *Center on Budget and Policy Priorities*. <u>www.cbpp.org/research/food-assistance/snap-is-linkedwith-improved-nutritional-outcomes-and-lower-health-care</u>
- Gundersen, C. & Ziliak, J. P. (2015). Food insecurity and health outcomes. *Health Affairs*, 34, No. 11: 1830-1839. DOI: 10.1377/hlthaff.2015.0645. Retrieved from <u>www.healthaffairs.org/doi/pdf/10.1377/hlthaff.2015.0645</u>
- Feeding America (2020). Senior Hunger in the United States, Infographic. Berkowitz, S.A., Basu, S., Meigs, J.B., & Seligman, H.K. (2018). Food insecurity and health care expenditures in the United States, 2011-2013. *Health Services Research*, 53(3), 1600-1620. Gregory, C. A., & Coleman-Jensen, A. (2017). Food insecurity, chronic disease, and health among working-age adults (No. 1477-2017-3689). United States Department of Agriculture, Economic Research Service.
- Ziliak, J. P. & Gundersen, C. (2017). The health consequences of senior hunger in the United States: Evidence from the 1990-2014 NHANES. Produced for Feeding America. Retrieved from: <u>www.feedingamerica</u>.

org/sites/default/files/research/senior-hunger-research/senior-healthconsequences-2014.pdf

- 13. Avalere Health and Defeat Malnutrition Today (2020). National Blueprint: Achieving Quality Malnutrition Care for Older Adults, 2020 Update. Washington, DC. www.defeatmalnutrition.today/sites/default/files/ National_Blueprint_MAY2020_Update_OnlinePDF_FINAL.pdf
- 14. Defeat Malnutrition Today and Women In Government (2021). Advancing Policies for Quality Malnutrition Care in Older Adults: A Toolkit for Constituents and Driving Change. Washington, DC: Defeat Malnutrition Today and Women In Government. Retrieved from <u>https://</u> defeatmalnutrition.today/sites/default/files/documents/2020%20 Malnutrition%20Toolkit%20State%20Advocates%20final.pdf
- Russel, C. (2019). Addressing malnutrition in older adults during care transition: Current state of assessment. Meals on Wheels America. Retrieved at www.mealsonwheelsamerica.org/docs/default-source/ research/nourishing-transitions/addressing-malnutrition-web-final. pdf?sfvrsn=f045ba3b_2
- Corkins, M. R., Guenter, P., DiMaria-Ghalili, R. A., Jensen, G. L., Malone, A., Miller, S., Patel, V., Plogsted S., Resnick, H. E. (2013). Malnutrition Diagnoses in Hospitalized Patients. <u>https://aspenjournals.onlinelibrary.</u> wiley.com/doi/full/10.1177/0148607113512154
- Morris, A. M., Engelberg Anderson, J. K., Schmitthenner. B., Aylward, A. F., Shams, R. B., Hurka-Richardson, K. & Platts-Mills, T. F. (2020). Leveraging emergency department visits to connect older adults at risk for malnutrition and food insecurity to community resources: design and protocol development for the BRIDGE study. *Pilot and Feasibility Studies* (6)36. <u>https://doi.org/10.1186/s40814-020-00576-3</u>
- Aylward, A. F., Anderson, J. E., Morris, A., Bush, M., Schmitthenner, B., Shams, R. B., Omofoye, F., Bodepudi, S., Roche, H., Cimpian, J., Wardlow, L., Platts-Mills, T. F. (2021). Using malnutrition and food insecurity screening to identify broader health-related social needs amongst older adults receiving emergency department care in the Southeastern United States: A cross-sectional study. *Health and Social Care in the Community* (00) 1-11. <u>https://doi.org/10.1111/hsc.13367</u>
- 19. Defeat Malnutrition Today (2019) Malnutrition: An Older Adult Crisis: Infographic Source: <u>www.defeatmalnutrition.today/sites/default/files/</u> images/DMT_Malnutrition_Info_Graphic_OnePage_Update_2.pdf

FOR MORE INFORMATION, CONTACT: Audrey Edmisten, RD, LDN, MPH NC Department of Health and Human Services Division of Aging and Adult Services audrey.edmisten@dhhs.nc.gov



NC DEPARTMENT OF HEALTH AND HUMAN SERVICES Division of Aging and Adult Services

<u>www.ncdhhs.gov</u> • NCDHHS is an equal opportunity employer and provider. • 6/2022