

## FOOD AS MEDICINE

Nutrition as a First-line Therapy Solution for Payors and Providers



Impact of food and nutrition on health and healthcare



Barriers to providing essential nutrition



Evolution of food as medicine and medically tailored meals



Targeted solutions for better outcomes and reduced costs

## It turns out mom was right, we should all "eat more vegetables."

Introducing a more balanced diet, with a healthy intake of fruits and vegetables, can have a measurable impact on overall health. When it comes to the prevention or management of chronic conditions, the nutrition aspect of care couldn't be more impactful. Health providers and plans are under increasing pressure to address social determinants of health, including facilitating guided nutrition, providing access to the right balance of healthier foods, and eliminating food access barriers. With payor coverage, the Food as Medicine movement is taking flight.

#### WITH THIS BRIEF, WE IDENTIFY

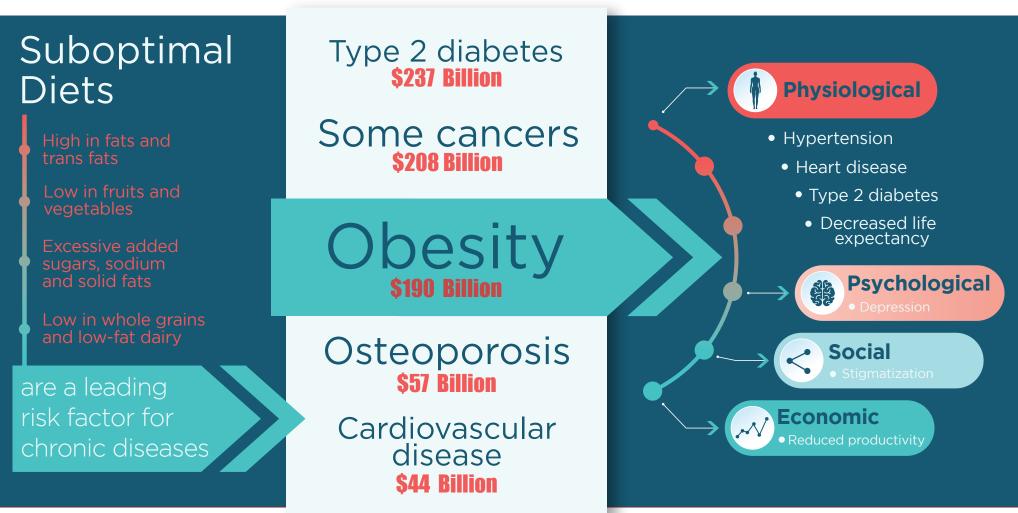


| Impact of food and nutrition on health and healthcare

- Barriers to providing essential nutrition to patient populations
- | THEN: Evolution of Food as Medicine and medically tailored meal programs
- NOW: Targeted solutions to drive better outcomes and reduce the costs of healthcare

# The impact of poor nutrition on health

Poor dietary intake accounts for nearly 20% of the \$3.8 trillion spent on U.S. healthcare for chronic conditions, including diabetes, heart disease and stroke. Patients with chronic disease substantially increase the cost of healthcare with greater ER presentations, hospital admissions, and specialist care. Nutrition intervention is one key to driving better health outcomes and managing healthcare costs for a variety of chronic conditions.



#### Sources

Hartline-Grafton, H. (2017). The Impact of Poverty, Food Insecurity, and Poor Nutrition on Health and Well-Being. Food Research & Action Center (FRAC). Available at: https://frac.org/wp-content/uploads/hunger-health-impact-poverty-food-insecurity-health-well-being.pdf. Accessed on September 20, 2021. Hartline-Grafton, H. (2019). Hunger is a Health Issue for Older Adults: Food Security, Health, and the Federal Nutrition Programs. Food Research & Action Center (FRAC). Available at: https://frac.org/wp-content/uploads/hunger-is-a-health-issue-for-older-adults-1.pdf. Accessed on September 22, 2021. Garcia, S. P.; Haddix, A.; & Barnett, K. (2018). Incremental Health Care Costs Associated With Food Insecurity and Chronic Conditions Among Older Adults. *Preventing Chronic Disease* 2018; 15: 180058. DPI: http://dx.doi.org/10.5888/pcd15.180058.



ECONOMIC STABILITY

Lack of access to affordable healthcare and prescription medications
 Inability to afford transportation to medical appointments
 Cost of living offection stable based as

Cost of living affecting stable housing

#### **EDUCATION ACCESS AND QUALITY**

Lack of educational and learning resources about healthy eating and nutrition
Language barriers for ESL or non-English speakers
Less early childhood education and development

#### HEALTHCARE ACCESS AND QUALITY

- Lack of access to primary care physicians
- I Uneven quality of localized primary and specialty care
- | Deficiency of nutrition education in physician training
- | Unconscious biases by healthcare systems and providers leading to health inequities and substandard care

#### NEIGHBORHOOD AND BUILT ENVIRONMENT

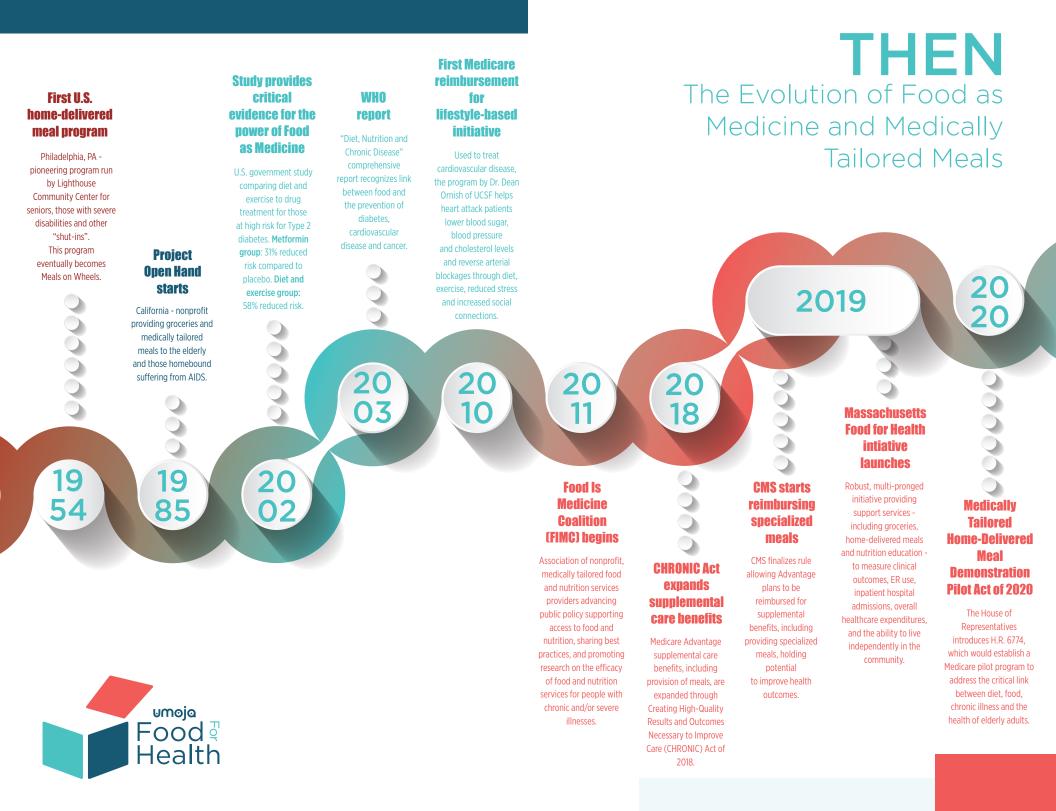
Food deserts and food swampsLack of parks, playgrounds and neighborhood exercise outletsPoor transportation links limiting ability to attend appointments

Barriers to nutrition as an effective intervention

#### SOCIAL AND COMMUNITY CONTEXT

- | Weaker social norms to pursue preventative care
- Fewer community support mechanisms for the values of healthy eating
- Reduced trust between neighbors limiting ability to engage in healthy behaviors





### **NOW** The Future of Food Intervention Programs

At Food For Health, we believe that pairing nutrition with education and lifestyle modification solutions is the most empowering and effective approach to food as medicine. Our programs are designed for at-home delivery of nutritious, tailored meals, groceries and produce to support the

prevention or management of chronic conditions, improve overall health and address social determinants of health.





Medically Tailored Meals, Grocery & Fresh+Pantry Plans, Produce Prescriptions, Graduated Programs

Fully customizable medical and population tailored programs

Educational tools to inform and influence healthy habits and sustain lifestyle changes

Wide range of quality, nutritious pantry, fresh, and frozen foods

Convenient at-home delivery

Reduced ER visits, hospitalizations, readmissions, and cost of care

White label branding options available



## About the Author



## James Gillespie, Ph.D., J.D., M.P.A., M.S. Director of Health and Life Sciences

Senior Advisor and Strategy Consultant, Stanford University School of Medicine Research Affiliate, Yale University School of Medicine Co-Founder and Board Member, Black Healthcare and Medical Association Advisory Board Member, Healthcare Businesswomen's Association Northwestern University Kellogg School of Management, M.S., Ph.D. Harvard University School of Law, J.D. Princeton University School of Public Policy, M.P.A. Massachusetts Institute of Technology, B.S. Carnegie Mellon University Heinz School; Rand Graduate School



At Food for Health, we provide at-home delivery of nutritious, tailored groceries, recipes and educational tools to improve health, and support the prevention or management of chronic conditions. Food for Health is a division of Umoja Supply Chain Solutions. At Umoja, we apply our proven expertise in food and logistics to support hunger relief, reduce food insecurity, address social determinants of health and deliver medically tailored nutrition programs. Our creative, customizable solutions are fueled by our talent, analytics, industry insights and vast network of partners, and backed by our commitment to equity and access to food and healthcare for all.

#### umojafoodforhealth.com