

Integrating Nutrition Interventions into Healthcare

New York State Food as Medicine Coalition

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UNDERSTANDING FOOD & NUTRITION INSECURITY

Contextual Conditions

Systematic Racism; Structural Economics; Environmental Health Consumer & Cultural Norms; Public Policy & Regulations; Presidential Budgets; Medicare & Medicaid; Seasonal Availability; **Cultural Institutionalization of Hunger**





Secondary Drivers

Proximity to formal, informal, Lack of disposable income and mobile markets

Lack of affordable. sustainable transportation

Lack of healthy foodstuffs in retail

Food waste in the system

Disruptions in the supply chain

Poor distribution networks

Poor eating behaviors

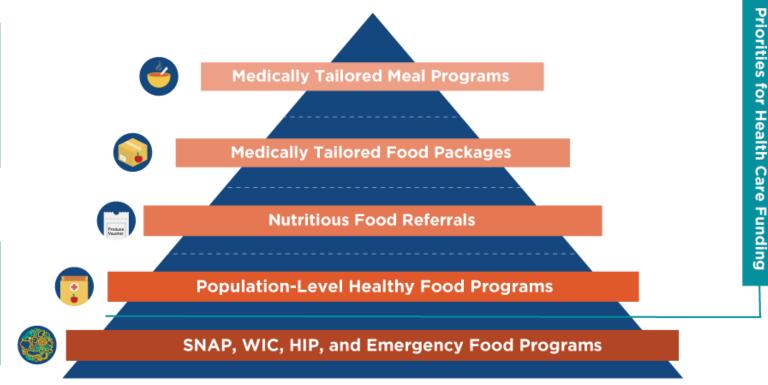
Inadequate access to food benefit programs

High food costs

Lack of diet-specific education

Culturally relevant and practical food recipes

Lack of food storage









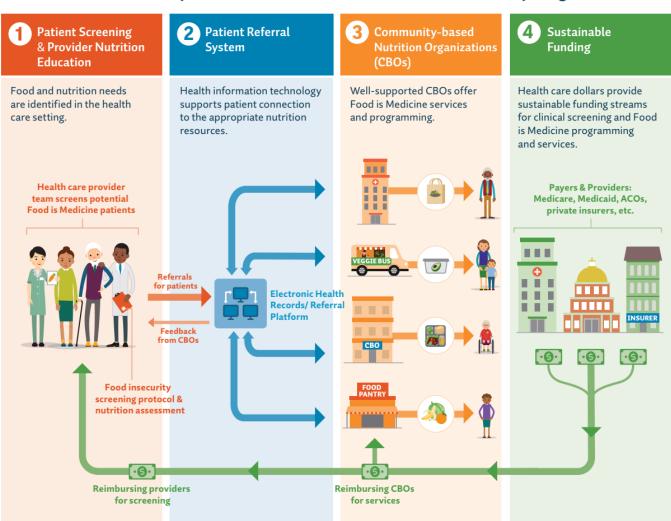


Roadmap for Change in Five Focus Areas

Improving access to Food is Medicine interventions

Research has shown that **Food is Medicine** interventions can play a powerful role in improving health outcomes and controlling health care costs. However, access to these interventions remains limited.

Our vision: a health care system where food & nutrition interventions are fully integrated into care.



What is a PRx?

A Produce Prescription (PRx) Program is a medical treatment or preventative service for eligible patients due to diet-related health risks or conditions, food insecurity, or other documented challenges in access to nutritious foods, and are referred by a healthcare provider or health insurance plan. These prescriptions are fulfilled through food retail and enable patients to access healthy produce* with no added fats, sugars, or salt, at low or no cost to the patient. When appropriately dosed, Produce Prescription Programs are designed to improve healthcare outcomes, optimize medical spending, and increase patient engagement and satisfaction.

National Produce Prescription Collaborative, March 2021 *according to USDA WIC-eligible fruits and vegetables

GusNIP, National Produce Prescription Collaborative





Medically tailored groceries defined: Distributions of unprepared or lightly processed foods that recipients are meant to prepare for consumption at home; the contents are sufficient to prepare nutritionally complete meals or provide a significant portion of the ingredients for such meals, including produce, whole grains and legumes, and lean proteins.

Medically tailored groceries range from boxes of store-bought shelf products to a format similar to a meal kit, with ingredients portioned by meal and small allocations of items like spice blends and sauces. Distribution sites include food pantries located on-site in health care settings, community food pantries, and other community sites. Some programs offer home delivery. Nutrition education and recipes are sometimes made available to recipients, and the food items are approved by an RDN as appropriate for certain medical diets and health conditions, such as a diabetes-appropriate food box. Generally, however, food is not tailored to individual cultural needs, food preferences, or preparation abilities. Recipients are screened for food insecurity or deemed eligible for the intervention due to participation in a means-tested program such as Medicaid or SNAP.

Note: WIC meets the definition of a medically tailored grocery intervention.





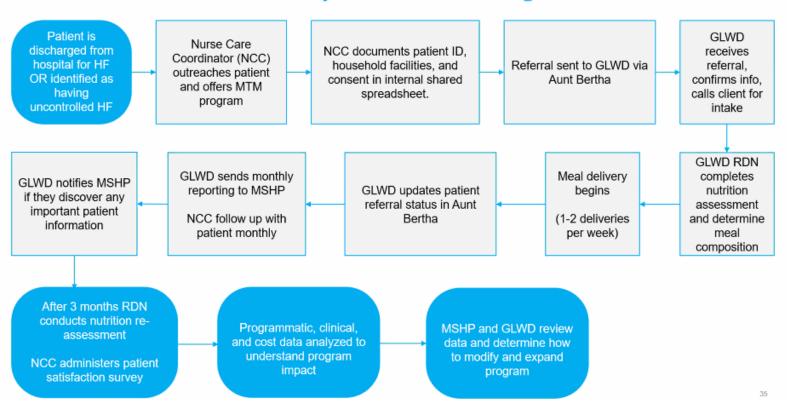
Table 3: Overview of Food is Medicine Interventions

Food is Medicine interventions involve a range of key design and implementation decisions, each with the potential to impact health outcomes. In distinguishing the three intervention categories covered in this report, we largely focus on the preparation level of the food provided (complete meals, a range of perishable and nonperishable grocery items, or only produce) and the amount of food provided (complete or near-complete nutritional needs, partial nutritional needs, or supplemental nutritional needs). This categorization is not intended as a bright-line rule but rather as a helpful schema. Indeed, the line between medically tailored groceries and produce prescriptions is already quite blurry as produce prescriptions are sometimes expanded to offer a greater quantity of food or even to cover non-produce items.

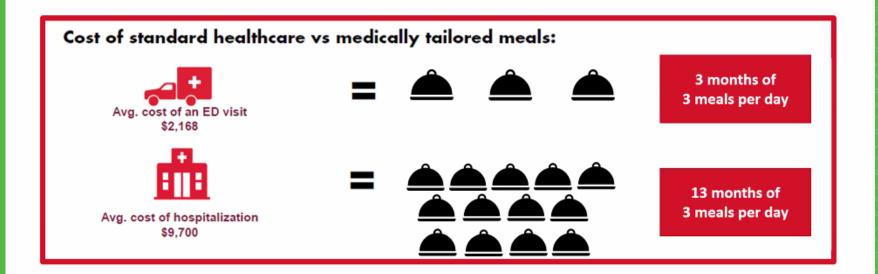
	Medically tailored meals	Medically tailored groceries*	Produce prescriptions*
Preparation level and type of food	Ready-to-eat (reheated in an oven or microwave) meals and snacks	A range of perishable and nonperishable grocery items, including produce, that will require further preparation	Produce—fresh, frozen, or canned (no added salt, sugar, or fat)— which, depending on the items, may require further preparation
Amount of food	Complete or near-complete (over 50% of caloric needs met) nutrition	Partial or near-complete nutrition	Supplemental nutrition

https://www.aspeninstitute.org/wp-content/uploads/2022/01/Food-is-Medicine-Action-Plan-Final_012722.pdf

Workflow for MSHP Medically Tailored Meal Program



High Value → Quick ROI



Medically Tailored Meals

Capable of saving

\$38.7 billion annually





CURRENT GAPS IN PROGRAMS & KNOWLEDGE

- Food insecure adults have annual healthcare expenditures \$1,834 higher than adults who are food secure (\$52.8B excess costs in US annually)
- 60% of US adult population suffers from at least one chronic health condition, with diet-related conditions being the emost prevalent
- 1 in 10 adults meets the US Dietary Guidelines recommendations for fruits and vegetables

What We Know

- Food insecurity has a proven correlation to worsened mental health outcomes, physical health outcomes, health-damagi ng behaviors, and increased care utilization / costs
- Primary Food as Medicine (FAM) interventions (MTM, Medicall y Tailored Groceries, and Produce Prescriptions) are replicable, scalable, and effective
- FAM interventions have proven research showing reduced foo d insecurity, improved dietary intake, and improved partici pant mental health
- Successful food and nutrition interventions are rarely one size fits all
- Food interventions should enhance, not replace, current soci al service support offered in the US

What We Need to Know

- The effects on clinical health outcomes and optimal program design are still under-resea rched
- Under-researched program design components i nclude optimal dose-response curve / intensi ty of intervention, program duration, locatio n convenience, integration of household me mbers, and best operationalized delivery
- While nutrition education and FAM interventions have been successful, the maximized benefits of multi-pathway interventions (i.e., food + ed ucation, food only, etc) have not been compared

Appealing to partners

HIPAA Compliance
Decreases in utilization
Biomarkers
ROI
Increases in
satisfaction and
medication adherence

