Leveraging Local Food to Improve Patient Health in Rural Communities

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Rural Health Network of SCNY

NYS Association for Rural Health Conference



Rural Health Network of SCNY

The mission of the Rural Health Network of South Central New York is to advance the health and well-being of rural people and communities.

Counties Served: Broome, Chemung, Chenango, Cortland, Delaware, Otsego, Tioga, and Tompkins

Rural Health Network Services:

- Community Health Services: Case Management, Navigation, Education, Advocacy
- **Getthere**: Transportation and Mobility Management
- National Service: AmeriCorps, AmeriCorps VISTA
- Rural Health Planning & Population Health (PHIP)
- Food & Health Network: Developing the regional food system to support positive health and economic outcomes.



Food & Health Network Program

Food and Health Network (FaHN) is an eight-county coalition of diverse stakeholders working to build food-secure communities and a strong regional food system through collaboration. FaHN programs connect food access, health, and local agriculture.

- Fruit & Vegetable Prescription Program
- Farm to School
- Regional Volunteer Program
- Growing Health Educational Forums
- Research & Assessments
- Food System Policy & Advocacy





What We'll Cover:

- ✓ Why Prescriptions for Fruits & Vegetables?
- **✓ SCNY Program Goals**
- ✓ Clinical & Community Implementation
- ✓ Outcomes
- ✓ Evaluation & ROI
- **✓** Future Opportunities
- ✓ Discussion



Leveraging Our Agricultural Assets to Improve Health and Economic Outcomes

Question: Why isn't the health sector working to better utilize our diverse NYS
agricultural assets and fresh, nutrient dense food to address diet related
chronic disease and food insecurity?

• Strategy: Utilize Innovation Funding from Care Compass Network PPS to pilot Fruit & Vegetable Prescription Program.



FOOD INSECURITY & HEALTH

- ► Forgo the foods needed for special medical diets (e.g., diabetic diets)
- Purchase a low-cost diet that relies on energy-dense but nutrient-poor foods
- Make trade-offs between food and other basic necessities (e.g., housing)^z
- Adults forgo food so children can eat enough
- Cost-related medication underuse
- Postpone preventive or needed medical care

Exacerbate disease

Compromise health

Increase physician encounters

Increase ER visits

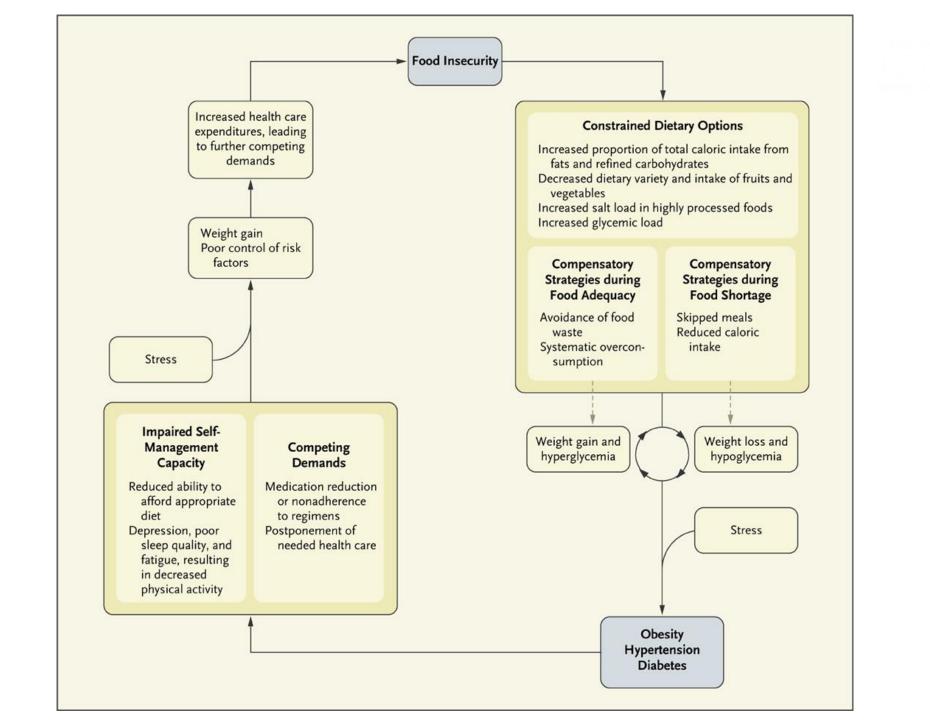
Increase hospitalizations

Increase expenditures for prescription medications

Sources: FRAC's Hunger & Health Series, 2017; Gundersen et al., Health Affairs, 2015







FOOD INSECURITY & HEALTH (Adults)

Diabetes Heart disease Hypertension Poor overall Poor sleep Pregnancy complications health status outcomes Depression and Obesity **Functional** mental health (primarily limitations problems women)

Sources: FRAC's Hunger & Health Series, 2017; Gundersen et al., Health Affairs, 2015

Household food insecurity is a strong predictor of higher health care utilization and increased health care costs.

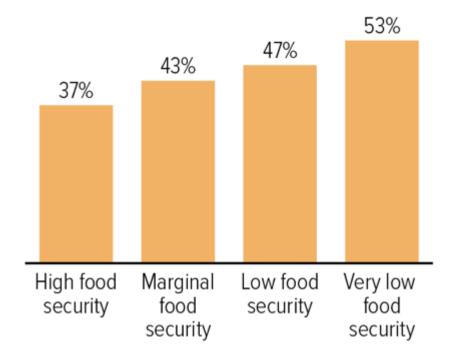
Health-related costs of hunger and food insecurity in U.S.

Estimate: \$160 billion (2014)

FOOD INSECURITY & HEALTH

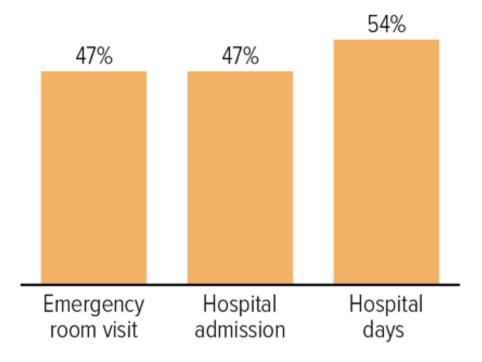
Adults in Households with Less Food Security Are Likelier to Have a Chronic Illness

Probability of any chronic illness



Adults in Food-Insecure Households Have More Emergency Room Visits and Hospital Admissions

Percent more likely relative to food-secure households



	Broome	Delaware	Tioga
Poverty	16.5%	17.5%	12.7%
Food Insecurity	13.8%	12.1%	9.9%
ALICE Households	26%	30%	26%
Families Enrolled in SNAP	15.8%	14.8%	12%
Daily recommended servings of fruits and vegetables	27.4%	24.2%	22.5%
Overweight or Obese	64.1%	58.6%	68.1%





Why a Fruit & Vegetable Prescription Program?



PROGRAM IMPACTS NATIONALLY

- 54% of participants increased their fruit & vegetable consumptions
- 55% decreased their BMI
- 45% of patient households reported an increase in food security
- 92% reported that the prescription was important in their decision to shop at participating retail sites



South Central NY Fruit & Vegetable Prescription Program

Program Goals:

- 1. Help prevent and manage chronic diet-related disease
 - Package low-cost strategies including vouchers for local produce, nutrition counseling, cooking education, peer support, and transportation assistance to reduce high-cost interventions in the future.
 - Focus on cardiovascular disease, diabetes, and associated risk-factors



South Central NY Fruit & Vegetable Prescription Program

Program Goals:

2. **Develop clinical work flows** that effectively screen and connect patients with community-based preventative and management services, and integrate into the EMR.



South Central NY Fruit & Vegetable Prescription Program

Program Goals:

3. **Evaluate the Return on Investment** for nutrition-based preventative health care to determine replicability and sustainability.



























Wholesome Wave



PROGRAM GROWTH:

Year 1

- 80 participants
- 2 Primary Care Offices
- Broome County
- Registered Dietitians

Year 2

- **230 participants**
- 12 Primary Care Offices, 2 Hospitals
- Broome, Tioga, Delaware Counties
- Registered Dietitians, Wellness Coordinators,
 Community Health Workers



HOW IT WORKS: CLINICAL

- 1. Providers screen for eligibility & refer patients
- Participants enrolled by Registered Dietitian, Wellness Coordinator, or Community Health Workers
- 3. **3 Visits** with a Registered Dietitian, Wellness Coordinator, or Community Health Worker over the course of six to eight months.



DURING EACH VISIT:

- ✓ Support for using vouchers
- ✓ Nutrition counseling
- ✓ Connection to community resources (including transportation)
- ✓ Recipes/Cooking
- ✓ Complete surveys at each visit
- Receive vouchers at each visit



Spending Your Vouchers

1. Buy a weekly produce subscription through **VINES Farm Share**





To get your own weekly produce box: Pick the most convenient weekly pick-up location below.



Call Kate at VINES, (607)238-3522 and mention Wholesome Rx to get more info and arrange your pickup.



Arrive at your weekly pick-up location with your Wholesome Rx vouchers. You can pay bi-weekly or monthly with your vouchers.

THURSDAYS

2:30-4:30pm

Binghamton

3:00-5:00pm

Binghamton

108 Liberty St.

Family Health

3:30-5:30pm

4:00-6:00pm

Binghamton

4:00-6:00pm

42 Chenango St,

Tabernacle United

Methodist Church:

83 Main St. Binghamton

Church

Lee Barta

150 Moeller St,

Center

Carlisle Community

Community Center

Lourdes Center for

303 Main St, Binghamton

United Presbyterian

Pick-up Locations

WEDNESDAYS

Roosevelt **Elementary School** 2:30-4:00pm

9 Ogden St, Binghamton Cornerstone Family

Healthcare 2:30-4:30pm 35 Felters Rd, Binghamton

Whitney Point United Methodist Church

3:00-4:30pm 7311 Collins St. Whitney Point

Family Enrichment Network 3:30-5:30pm

24 Cherry St, Johnson City

Central United Methodist Church 4:00-6:00pm

17 Nanticoke Ave. **Endicott**

2. Shop at the CHOW Fresh **Mobile Produce Market or Participating Stores**



Shop the mobile market or participating grocery store! Vouchers can be spent on any fresh fruits or vegetables.

Pay with your Wholesome Rx vouchers at checkout.

Take home and enjoy!

Market Stops

BINGHAMTON		
Broome County Library	185 Court St	Mon, Wed, Fri: 9:30–11:30am
Binghamton Plaza	33 West State St	Mon, Fri: 1:00–2:00pm
First Ward Senior Center	226 Clinton St	Tue: 9:00–10:30am
ABC Apartments	100 Chenango St	Tue: 11:30am–1:00pm
Town & Country Apartments	100 Roberts St	Thur: 1:00-3:00pm
Lee Barta Community Center	108 Liberty St	Thur: 1:00–3:30pm
JOHNSON CITY Johnson City Senior Center	30 Brocton St	Thur: 10:30–11:45am

For CHOW, Contact: Jack Seman (607) 724-9130

3. Shop at Participating **Farmers Markets**



Bring your vouchers to the Market welcome table.



Exchange your vouchers for Market Bucks.



Shop the market! You can spend your Market Bucks with any farmer selling fresh fruits and vegetables.

Market Locations

Walton Farmers' Market

Fri, 10:00am-2:00pm: 7/6, 7/20, 8/3, 8/17, 8/31, 9/14, 9/28 Veterans Plaza 181 Delaware St. Walton (607) 865-6531

Vestal Farmers' Market

Wed & Sat, 9:00am-1:00pm (May 26-Nov 21) Vestal Public Library 320 Vestal Pkwy E, Vestal (607) 625-4141

Greater Hancock Farmers' Market

Sat. 9:00am-2:00pm (May 19-Oct 20) Hancock Town Square (607) 637-2870

Owego Farmers' Market

Tue & Fri, 9:00am-1:00pm (Jun 12-Oct 30) Rite Aid Parking Lot Main St & Central Ave. Owego (607) 429-8048

Broome Regional Farmers' Market

Sat, 9:00am-1:00pm (Year-Round) Tue, 3:00-6:00pm (June-August) 840 Front St, Binghamton (607) 584-5019

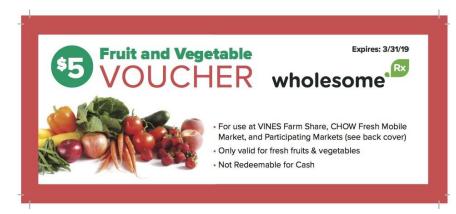
Participating Stores

Our Green Acres Farm Store (Open Jun-Nov):

Mon-Fri, 9:30am-6:00pm Sat, 9:30am-5:00pm Sun. 10:00am-5:00pm 3965 Waverly Rd, Owego

John's Fine Foods:

Mon-Sun, 8:00am-6:00pm 88 North Ave, Owego







Name		

Wholesome Rx Patient ID#

Bring this card when you shop with your Wholesome Rx vouchers

COMMUNITY EDUCATION

- Cooking demos & tours at markets
- Gardening, cooking & preserving classes in the community
- Eat Smart NY and Just Say Yes to Fruits & Vegetables
- Peer-led Chronic Disease Self-Management
 Program



MEASURING IMPACT & ROI:

- Evaluation partnership with Binghamton University
- Return on Investment for preventive nutrition & food security interventions
- Alignment with 4 DSRIP Projects
 - 1. 2.b.iv Care Transitions for Chronic Diseases
 - 2. 2.c.i Navigation
 - 3. 2.d.i Patient Activation
 - 4. 3.b.i Evidenced based best practice strategies for cardiovascular disease management in adults



WHAT ARE WE MEASURING?

- Changes in household food security
- Changes in fruit and vegetable consumption.
- Knowledge and attitudes about healthy eating and how to improve their health
- Basic demographic data (household size, SNAP, WIC
- Sales data
- Health metrics via EMR
- Provider & Participant satisfaction



WHAT DOES SUCCESS LOOK LIKE?

- 80% of participants attend 2 of the 3 FVRx visits
- Increase in fruit and vegetable consumption
- Decrease in household food insecurity
- Reduced healthcare utilization when compared to control group.
- Improvements in chronic, diet-related disease
- Increased referrals to community resources





IMPACT ON PARTICIPANTS:

Weight loss Reduced blood pressure Improved blood sugar numbers **Greater autonomy in healthy decisions Reduced stress** Reduced pain



"I lost 11-lbs from the last time I saw you! My pulmonary specialist was very happy and told me if I keep going my breathing will get better. I love all the fruits and vegetables, they are just so expensive to afford, and my whole family enjoys them. I'm eating vegetarian three days a week now."

"Since being involved in the fruit and vegetable voucher program my thought process has changed, I'm cooking more and I am more health conscious. Part of being well means eating well for me. I am on a limited budget and so appreciate having the fresh fruit and vegetables. I am cooking things I haven't cooked in years! I'm teaching my granddaughter how to cook and we are eating as a family better."

IMPACT ON PROVIDERS:

- ✓ Greater engagement with patients
- ✓ Increased collaboration among providers
- √ Tailoring education and approaches
- √ Referrals to outside resources
- ✓ New partnerships with CBOs



COMMUNITY IMPACT:

"We are wrapping care around the patients - from their health care providers to the volunteers at distribution who are supporting them with direct education about the vegetables they are receiving. It's creating community, a safe place for people who may feel vulnerable about so many things to learn a new way to look at the food they are consuming."





IMPACT ON LOCAL ECONOMIES:

✓ New, repeat customers and increased produce sales

✓ Sustaining rural farmers' markets, mobile markets, and retail grocery stores



2017109K purchased

Year 1: \$109,000 in local sales

- \$16,000 FVRx

- \$93,000 Farm to School

2018 2017 234k projected

109K purchased

2018 234K projected

Year 2 (Projected): \$234,580

- \$58,800 FVRx

- \$175,780 Farm to School

RURAL HEALTH
NETWIRK
Serving South Central New York

WHAT'S NEXT? PATH TO SUSTAINABILITY

Integration with Value Based Payment

National Models:

- Managed Care Organizations (ex. Health Partners Plan: Food is Medicine Program)
- Employee Wellness Benefit
- Hospital & Insurance Foundations
- Private Foundations, Federal Grants



QUESTIONS?





Thank You!

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