

Prescription Pantry: Proposed Screening & Management for Food Insecurity at Mission Medical

School of Medicine
UNIVERSITY OF COLORADO
COLORADO SPRINGS BRANCH

Brittany Denzer, MSIII, Taylor South, MSIII
University of Colorado School of Medicine, Colorado Springs Branch

Background

- Food insecurity, defined as a house-hold level economic and social condition of limited access to food, is associated with higher health care costs and poor health outcomes for adults and children.¹
- In 2020, amidst the COVID pandemic, food insecurity doubled to 23% of American households from 10.5% of households in 2019.²
- Mission Medical Clinic (MMC) provides primary and specialty medical care to uninsured, under-served, and low income people living in the Pikes Peak community.
- MMC has an on-site food pantry available for patient use, however the prevalence of food insecurity in this patient population is unknown. There is also no protocol for referring patients to this resource.
- A 2-question screening survey has been validated across highrisk population subgroups with a sensitivity of ≥97 % and a specificity of ≥74% for food insecurity.³
- The Nutrition Environment Food Pantry Assessment Tool (NEFPAT) is a validated instrument for assessing the clinical nutrition environment of food pantries and providing recommendations for improvements.⁴
- Clinical Nutrition Environment encompasses the types, quantities, placement, range of choices, freshness and labeling of foods in a pantry. These factors have been shown to influence food selection choices by food pantry patrons.⁴
 - "Foods to Encourage (F2E)" are healthy foods that meet specific criteria defined by the NEFPAT

Objectives

- Evaluate the prevalence of food insecurity in the MMC patient population
- Complete NEFPAT assessment of MMC's food pantry
- Provide recommendations to improve food pantry based on NEFPAT results

Project Description

Food Insecurity Screening

 A 2-question screening survey was administered as part of routine intake survey at primary care and specialty clinics at MMC from November 2020-February 2021

Improvement of Food Pantry

- Food Pantry was evaluated using the NEFPAT
- Recommendations will be provided to MMC leadership based on NEFPAT results

Screening Survey

- 1. '(I/We) worried whether (my/our) food would run out before (I/we) got money to buy more.' Was that often true, sometimes true, or never true for (you/your household) in the last 12 months?
- o Often true
- o Sometimes true
- o Never true
- 2. 'The food that (I/we) bought just didn't last, and (I/we) didn't have money to get more.' Was that often, sometimes, or never true for (you/your household) in the last 12 months?
- o Often true
- o Sometimes true
- o Never true

*Screening is positive if "often true" or "sometimes true" is selected for either question.

Results

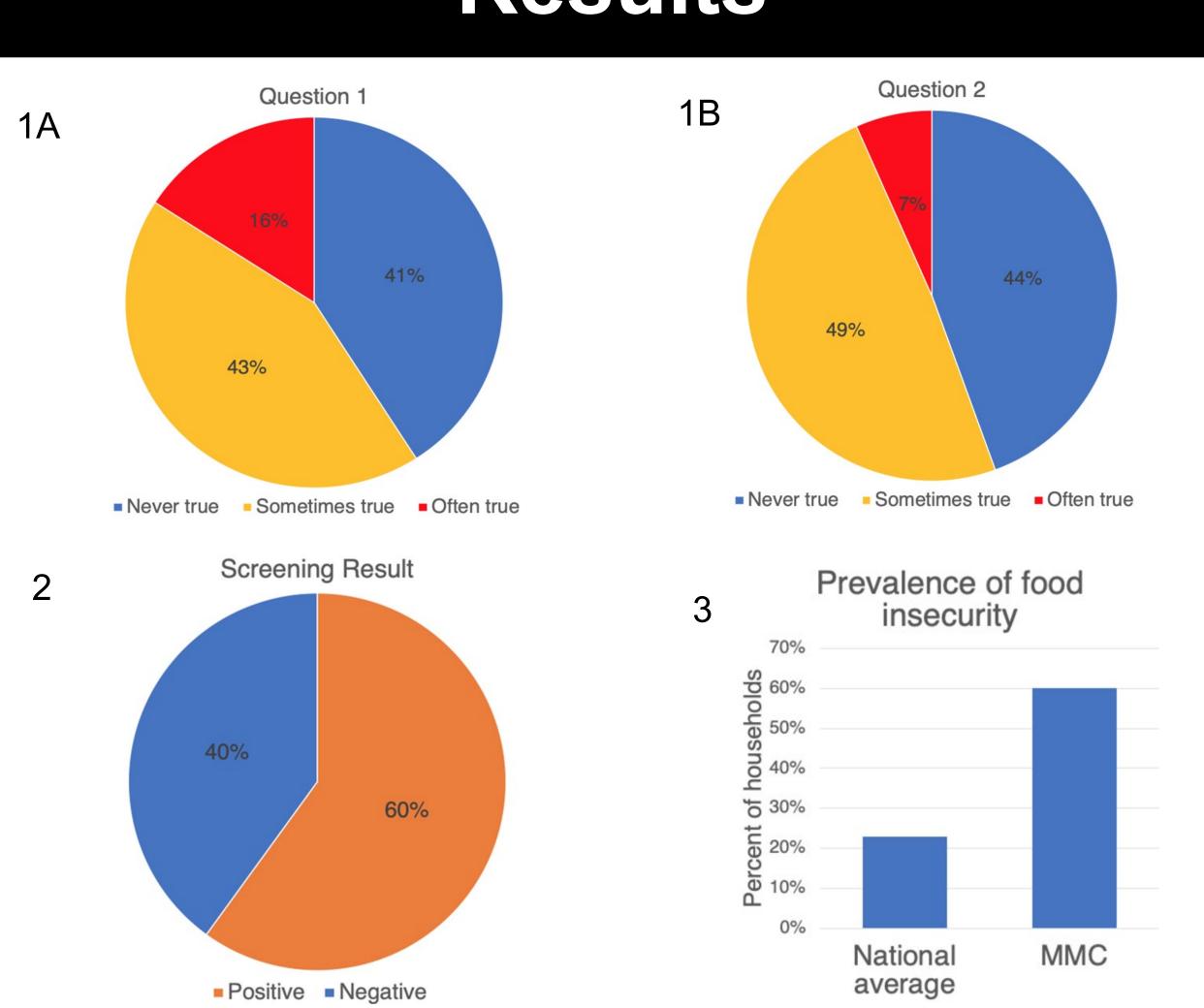


Figure 1: Answers to Food Insecurity Screening Question 1 (A) Question 2 (B) n=47 **Figure 2:** Interpretation of Food Insecurity Screening questions n=47

Figure 3: Prevalence of food insecurity at MMC compared to national average

	NEFPAT Objective	Score (Points/possible points)
買	1. Increase Client Choice for Nutritious Options	3/8
	2. Market & "Nudge" Healthful Projects	1/8
	3. Provide Various <u>Forms</u> of Fruits and/or Vegetables	3/8
₩	4. Provide Various <u>Types</u> of Fruits and/or Vegetables	5/10
	5. Promote Additional Resources	3/8
	6. Plan for Alternate Eating Patterns	0/5
	NEFPAT Total Score	15 (Bronze)

Table 1: NEFPAT score based on Feb 2021 pantry visit. NEFPAT Scoring range: 0-47 NEFPAT Scoring classifications: Bronze: 0-15, Silver: 16-31, Gold: 32-47

Assessment of Existing Food Pantry			
% of pantry stock that qualify as "Foods to Encourage (F2E)"	33%		
Average number of food pantry visits per month (Sep 2020-Feb 2021)	7.8		

Discussion

- •The patient population of MMC was found to have a high prevalence (60%) of food insecurity.
- •The food pantry at MMC is an under-utilized resource with the potential for both expansion and improvement in Clinical Nutrition Environment.
- •Barriers to improvement of the food pantry identified by MMC staff included lack of dedicated staff/volunteers for operating food pantry, low volume of use, quality of food products offered by primary pantry resource, and difficulty storing and distributing perishable items including fresh produce.
- •MMC's food pantry's strengths include a variety of fruits and vegetables in canned and juice forms as well as print outs of additional food resources.
- •Potential areas of improvement include expanding "Foods to Encourage," adopting pantry organization strategies to facilitate healthy choices, and incorporating educational resources.
- •On-site food pantries, like MMC's, have the potential to support the health of a population facing significant food insecurity.

Next Steps

- Formal presentation of findings and recommendations to Mission Medical leadership and staff
- Support implementation of recommendations (e.g. recruit volunteers to staff pantry, creation of educational resources and pantry labeling)
- Explore additional stocking sources for fresh foods (Fresh food rescues, community gardens)
- Repeat NEFPAT score in 1 year

References

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