Barriers and Facilitators to Addressing Food Insecurity in Rural Primary Care Practices in Northern New England

Kayla Hatchell, MD¹, Arvind Suresh², Maureen Boardman, MSN, FNP-C, FAANP¹, Chelsey Canavan, MSPH³, Tiffany D'cruze^{1,2}, Alka Dev, DrPH, MSH⁴, Meaghan Kennedy, MD, MPH¹

Practices were recruited via the following northern New England practice networks:

- The Dartmouth CO-OP Northern New England Primary Care Practice-Based Research Network
- The Bi-State Primary Care Association
- The Northern New England Clinical and Translational Research Network

Table 1. Characteristics of primary care practices and respondents (n=13)

Practice Characteristic	N (%)	
Respondent role		
Provider	5 (38.5%)	
Resource specialist or CHW	3 (23.1%)	
Administrator	3 (23.1%)	
Other practice role	2 (15.4%)	
Practice type		
Hospital-affiliated	6 (46.2%)	
FQHC	4 (30.8%)	
Private practice	2 (15.4%)	
Other	1 (7.7%)	

CHW: community health worker; FQHC: federally qualified health center

Table 2. Additional preliminary themes and exemplary quotes from interviews with rural practice clinicians and staff (n=13)

Theme	Exemplary quote
Barrier: Lack of patient engagement	"I think sometimes people are really in the moment, and if they
with practices or community	get handed a Green Bag, they're happy to take it, but they don't
resources.	really follow up with the community health team the way
	maybe they should." – Administrator
Barrier: Practice consistency in	"In the screening process, I think it's really just time and making
performing FI screening.	sure that people actually follow the process. Sometimes we feel
	like we're rushed, and we have a lot of things going on. Making
	sure that people actually do the screening, that's the only
	barrier. Everything else I think falls into place once the
	screening's done." – Administrator
Barrier: Large service area of rural	"Again, we're in an area that covers nearly 2,200 square miles,
practices.	so it's a huge region to keep up with the different resources
	that are available in each of the communities." – Administrator
Barrier: Limited hours and poor	" and then timing for being able to access the pantry if people
accessibility of community food	work or they just don't know the Kind of back to education,
resources.	but definitely we have very obscure hours for our food pantries
	because they're all volunteer led." – Administrator
Facilitator: Strong connections with	"Through the community health team, we are very connected
community resources.	to what resources are available out there. We're sharing





	information all the time, as far as what new resources are out in the community, so that we can better inform the patients when we have that arise." – Resource specialist or community health worker
Facilitator: Farms increase food availability in rural communities.	"I do know that the [name of local food kitchen] has vegetables and fruits in their meals because local farmers will donate in the summer to them. I do know that." – Provider

Acknowledgements:

We would like to thank the Dartmouth CO-OP Northern New England Practice-Based Research Network and Rural PREP for supporting this study.

This study was supported by the Bureau of Health Workforce (BHW), Health Resources and Services Administration (HRSA), U.S. Department of Health and Human Services (HHS) under cooperative agreement #UH1HP29966. The information, conclusions and opinions expressed in this presentation are those of the authors and no endorsement by BHW, HRSA or HHS is intended or should be inferred.





Author affiliations:

- 1. Department of Community and Family Medicine, Geisel School of Medicine at Dartmouth, Hanover, NH, 03755.
- 2. Geisel School of Medicine at Dartmouth, Hanover, NH 03755.
- 3. Population Health, Dartmouth-Hitchcock Medical Center, Lebanon, NH, 03756.
- 4. The Dartmouth Institute for Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth, Hanover, NH 03755.

References:

- 1. Coleman-Jensen A, Rabbitt MP, Gregory CA, Singh A. *Household Food Security in the United States in 2020,* ERR-298. U.S. Department of Agriculture, Economic Research Service. September 2021;1-47. Accessed September 18, 2021. https://www.ers.usda.gov/webdocs/publications/102076/err-298.pdf?v=7142.5.
- 2. Anderson SA, ed. Core indicators of nutritional state for difficult-to-sample populations. *J Nutr.* 1990;120 Suppl 11:1559-600.
- 3. Gregory CA, Coleman-Jensen A. *Food Insecurity, Chronic Disease, and Health among Working-Age Adults*, ERR-235. U.S. Department of Agriculture, Economic Research Service. July 2017;1-25. Accessed May 13, 2021. https://www.ers.usda.gov/webdocs/publications/84467/err-235.pdf?v=0.
- 4. De Marchis EH, Torres JM, Benesch T, Fichtenberg C, Allen IE, Whitaker EM, et al. Interventions addressing food insecurity in health care settings: A systematic review. *Ann Fam Med*. 2019;17(5):436-447. doi:10.1370/afm.2412



