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Barriers to a Healthy Diet in an Urban, Underserved Primary Care Clinic and how Food Insecurity Impacts These Barriers



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Background

- 33.8 million Americans face food insecurity, severely impacting patient health [Weeks]
- Food insecurity has a direct, strong relationship with poor diet quality [Rivera]
- People with food insecurity are more likely to eat more fatty acids, empty calories, sugary drinks and are less likely to cook at home; more likely to eat fast food [McCullough][Wright]
- Diet quality in urban, underserved, and minority population: historically of lower quality than diet in higher socioeconomic populations [Bishop]
- Diet quality is multifactorial: economics, systemic racism, education, lack of access to grocery stores, and cultural/familial food practices [Bishop]
- Scant research available concerning patient-reported barriers to quality diet

Purpose

- Identify barriers to obtaining a healthy diet in an urban, underserved patient population
- Compare barriers to a healthy diet in those who are at risk for food insecurity and those who are not at risk

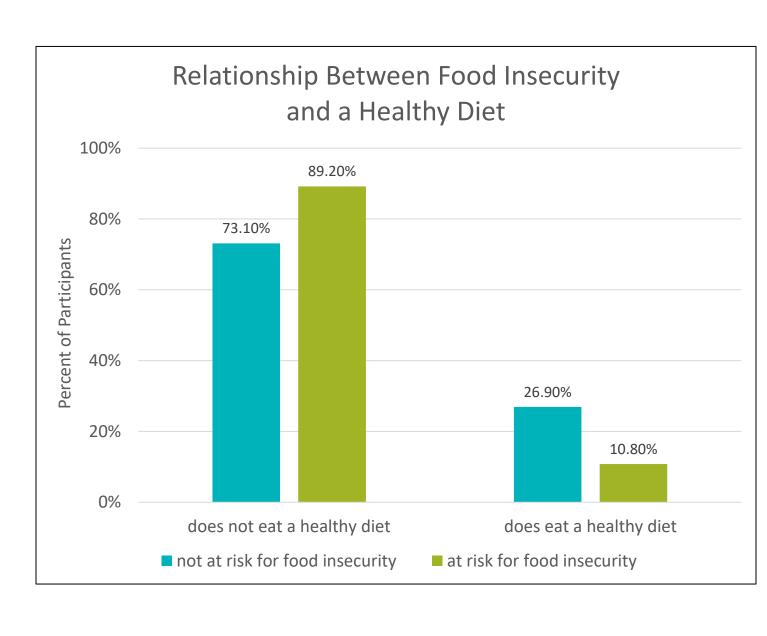
Methods

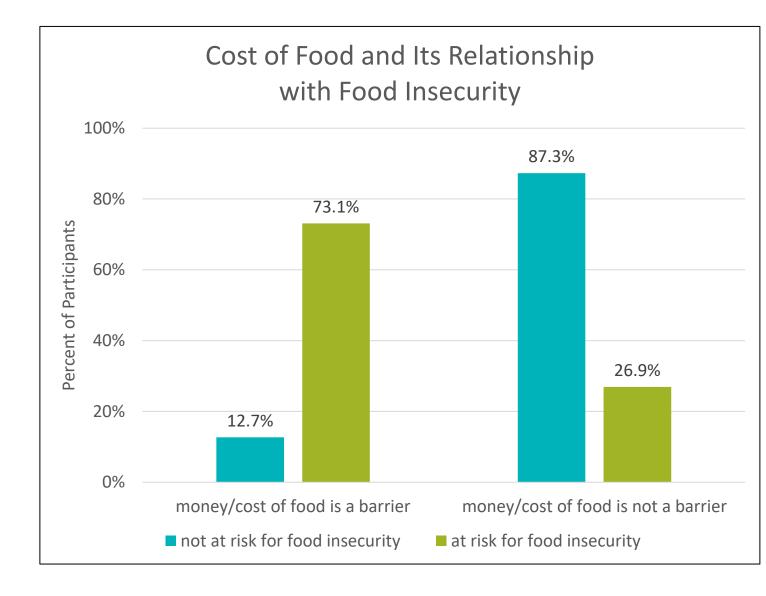
- 355 patients (81% response rate)
- Urban underserved midwestern primary care clinic
- Ages 19+
- Cross-sectional, self-administered survey
 - Rapid Eating Assessment for Patients—shortened version (REAP-s)
 - Hunger Vital Sign screen
 - Demographic information
 - Questions about barriers to a healthy diet
- Descriptive statistics
- Chi Square tests of Independence were used to evaluate the relationship between barriers to a healthy diet and risk for food insecurity

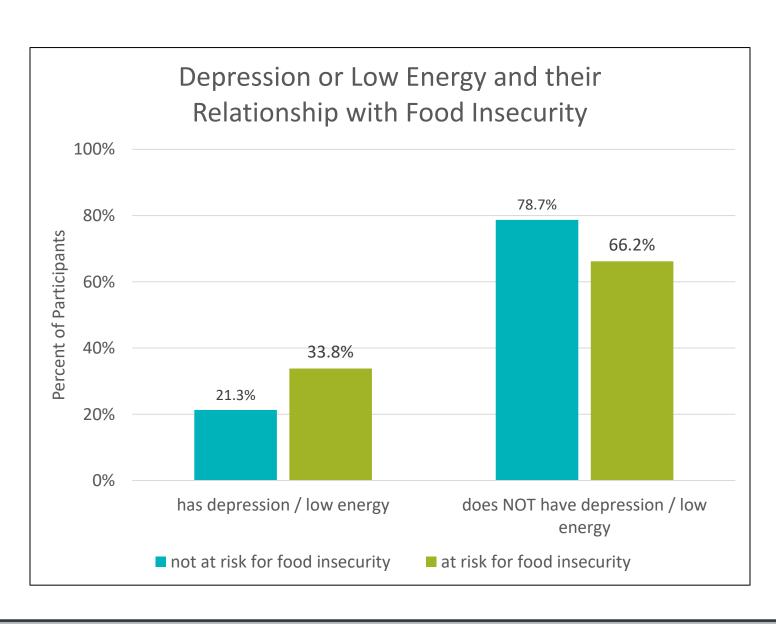
Results

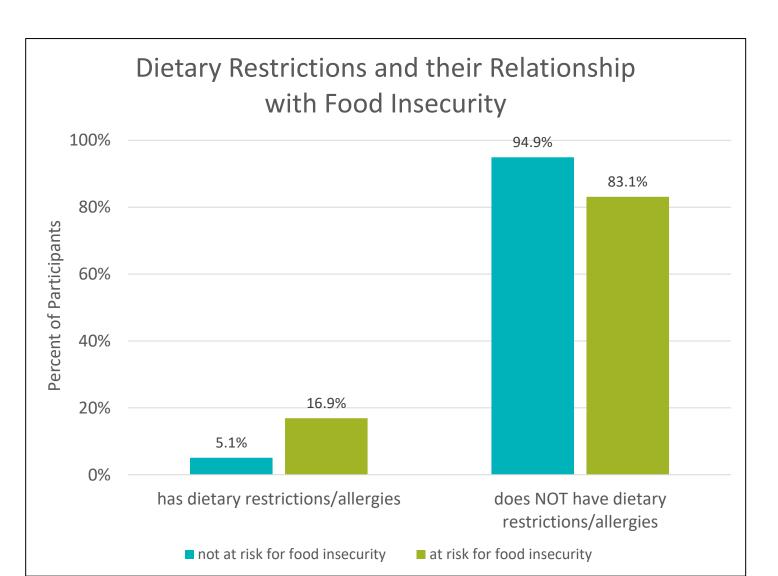
		#	%
What is your gender?	Male	71	21.2%
	Female	262	78.2%
	Non-binary	2	0.6%
What is your	Hispanic or Latino/a	15	4.6%
ethnicity?	Not Hispanic or Latino/a	311	95.4%
What is your race?	American Indian or Alaska Native	3	0.9%
	Asian	3	0.9%
	Black or African American	168	51.7%
	Native Hawaiian or Other Pacific		
	Islander	0	0.0%
	White	129	39.7%
	Other	5	1.5%
	More than one race indicated	17	5.2%
		Mean	SD
What is your age?		48.23	17.5
BMI		32.49	8.7

- A significantly higher percentage of patients not getting a healthy diet are facing food insecurity (p<0.001)
- Cost of food is the most frequently reported barrier; disproportionally represented by the group at risk for food insecurity (p<0.001)
- Depression and low energy have a strong relationship with food insecurity (p<0.012)
- Those with dietary restrictions are at greater risk for food insecurity than those without dietary restrictions (p<0.001)









Discussion

- Patients in a midwestern, urban, underserved primary care clinic are struggling to obtain a healthy diet.
- Food insecurity is a strong risk factor for poor quality diet.
- Poor diet quality identified as a major cause of cardiometabolic, musculoskeletal, immunologic, oncologic, neurologic, and psychiatric illness.
- Unless primary care physicians partner with their communities to address food insecurity, these barriers to healthy diets will have a greater influence on their patient's health than those with food security.
- PCPs can identify food insecurity risk in their patients via screening, partner with community assets, and leverage this knowledge to improve their patients' health.
- Future qualitative research is needed locally to partner with community members and leaders to find specific solutions to specific barriers to healthy diet in our communities.
- This could be one-on-one interviews, group interviews, and small meetings to devise strategies that can be effective locally.
- If we are to stand up for our patient's health, we must stand up for their diets and their access to high quality food in our communities.

References

- Bishop NJ, Wang K. Food insecurity, comorbidity, and mobility limitations among older U.S. adults: Findings from the Health and Retirement Study and Health Care and Nutrition Study. Prev Med 114:180–7. 2018.
- Gattu RK, Paik G, Wang Y, Ray P, Lichenstein R, Black MM. The Hunger Vital Sign Identifies Household Food Insecurity among Children in Emergency Departments and Primary Care. Children (Basel). 2019 Oct 2;6(10):107. doi: 10.3390/children6100107. PMID: 31581751; PMCID: PMC6827017.
- Hager, E. R., Quigg, A. M., Black, M. M., Coleman, S. M., Heeren, T., Rose-Jacobs, R., Cook, J. T., Ettinger de Cuba, S. E., Casey, P. H., Chilton, M., Cutts, D. B., Meyers A. F., Frank, D. A. (2010) Development and Validity of a 2-Item Screen to Identify Families at Risk for Food Insecurity. Pediatrics, 126(1), 26-32. doi: 10.1542/peds.2009-3146
- McCullough ML, Chantaprasopsuk S, Islami F, et al. Association of Socioeconomic and Geographic Factors With Diet Quality in US Adults. *JAMA Netw*Open. 2022;5(6):e2216406. doi:10.1001/jamanetworkopen.2022.16406
- Rivera RL, Zhang Y, Wang Q, Maulding MK, Tooze JA, Wright BN, Craig BA, Bailey RL, Eicher-Miller HA. Diet Quality and Associations with Food Security among Women Eligible for Indiana Supplemental Nutrition Assistance Program-Education. J Nutr. 2020 Aug 1;150(8):2191-2198. doi: 10.1093/jn/nxaa171. PMID: 32559278; PMCID: PMC7690761.
- Weeks JD, Mykyta L, Madans JH. Adults living in families experiencing food insecurity in the past 30 days: United States, 2021. NCHS Data Brief, no 465. Hyattsville, MD: National Center for Health Statistics. 2023. DOI: https://dx.doi.org/10.15620/cdc:125707.
- Wright BN, Bailey RL, Craig BA, et al. Daily Dietary Intake Patterns Improve after Visiting a Food Pantry among Food-Insecure Rural Midwestern Adults. Nutrients. 2018;10(5):583. doi:10.3390/nu10050583.

