

Does food insecurity prevalence differ between first-generation and non-first-generation college students?

Introduction

- College students are a uniquely vulnerable populat • that face higher rates of food insecurity.¹
- Food insecurity is defined as having limited availability or access to nutritionally adequate and safe foods.²
- Studies indicate first-generation (FG) students are • more likely to be food insecure.^{3,4}
- Recent data regarding this at-risk population is limit at a northeastern university.

Objective

To assess differences in food insecurity prevalence between FG and non-FG college students at a public northeastern university.

Methods

- Data were collected between Fall 2018-Spring 202 from the College Health and Nutrition Assessment Survey, an ongoing, cross-sectional study conducte at a public northeastern university (UNH IRB #552
- Participants (ages 18-24) were recruited from an introductory nutrition course and completed an only questionnaire (Qualtrics).
- Food insecurity status was measured using the USI Six-Item Short Form Food Security Survey.⁵
- A total food security score was calculated and used categorize participants as high food security, margin food security, low food security, or very low food security.⁵
- Participants were then classified overall as either for secure or food insecure.⁵
- FG status was self-reported and defined as neither parent completing 4 years of university.
- Differences in food security between FG and non-F students were assessed using chi-square test (p<.05 (SPSS, v28).

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	Sı	ubject Character	istics	Results	
ation	Gender	FG (n, %) Non-FG (n, %) der		• Among all students (n=1202), 21.6% were classi	
	Female	182, 63.2%	630, 60.8%	 FG. Among FG students, 77.7% reported high or man 	
1	Male 106, 36.8%		406, 39.2%	food security, while 22.3% reported low or very	
a	Race			food security.	
	White	257, 90.5%	960, 94.2%	• Among non-FG students, 86.2% reported high or	
re	Other races	27, 9.5%	59, 5.8%	marginal food security, while 13.8% reported low	
• , 1	Pell grant status			very low food security.	
nited	Yes	95, 40.9%	155, 19.1%	• There were significantly less FG than non-FG stu	
	No Financial Aid	137, 59.1%	657, 80.9%	in the high food security category.	
	Yes	221, 82.5%	598, 62.9%	 There were significantly more FG than non-FG s in the low food security and very low food security 	
				categories.	
ce lic,	No	47, 17.5%	352, 37.1%	 Food insecurity was significantly higher among I 	
IIC,	Food Security Level by USDA 6-Item Scale			than non-FG students (22.3% vs. 13.8%, p<0.00)	
	1000 50001	First-Gen vs. Non-First-			
	80% — *	* FG $n=260$ 72.5% Non-FG $n=942$		Conclusion	
21				 Approximately one in five FG students report 	
nt	dents	65.0%		food insecurity.	
ted	ng 40% +			• Prevalence of low food security and very low foo	
524).	bog 20% – 20% –			security status was significantly higher among F	
	Perce	12.7% 13.7% 15.8% * 6.5% * 3.2%		students than non-FG students.	
nline High Fo			• Future research related to use and perception of f		
	Security	Security Food Security Food Security Security *p<0.05		access resources should target at-risk students in	
SDA				those who are FG status.	
ed to ginal	Comparison of Student Food Security			Acknowledgements	
	First-Gen vs. Non-First-Gen			This research was funded by New Hampshire Agriculture Exp	
	100% T	*	FG n=260	Station and USDA National Institute of Food and Agriculture	
	★ Non-FG n=942			Project 1010738.	
food	77.7%			Deferences	
	S 50% +	50% –		References	
ſ	of the second se			 Freudenberg et al. College Students and SNAP: The New Face of Food Insecurity in the <i>Am J Public Health</i>. 2019;109(12):1652-1658. 	
-FG	0% + 22.3% * 13.8%		*	 Food Security in the US - Measurement. USDA ERS. Davidson AR, Morrell JS. Food Insecurity Prevalence Among University Students in Ne 	
)5)				 Journal of Hunger & Environmental Nutrition. 2020;15(1):118-127. 4. El Zein et al. Prevalence and correlates of food insecurity among U.S. college students: a 	
-)	F	ood Secure Food In	secure *p<0.05	 institutional study. <i>BMC Public Health</i>. 2019;19(1):660. 5. Six-Item Short Form Food Security Survey Module. <i>USDA ERS</i>. 	







