Factors that Influence Dietetic Interns' Dietary Practices C Weese; K Breinholt; M Easton; K Thompson; M Gunter; B Oronoz; J Sacks, BA; K Reich; B McFarlane; D Croxall; A White; K Devitt; L Peterson, MS, RDN, BC-ADM, CDCES, FADCES, FAND; R Charlton, MPH, RDN; H Hopkins, RDN; K Brown, PhD, RDN, CSSD

Background

The dietetic internship is a rigorous supervised practice experience that all future registered dietitians must complete [1]. Research suggests that environmental and social factors may affect dietary choices [2]. No studies have assessed if the rigorous internship experience affects interns' dietary practices. The objective of this focus group research study was to gather opinions from various dietetic interns to understand what factors of the internship experience, if any, affected their dietary habits.

Methods

Candidates were recruited across the United States through an email distributed by dietetic internship directors. Participants who were currently completing or had completed their dietetic internship within the past six months attended one of seven virtual focus groups. Transcriptions. Transcripts were separately coded by two to three trained researchers using methods outlined by Krueger and Casey to identify major and minor themes [3]. Researchers discussed any disagreements in coding and established a consensus.

References

1. About Accredited Programs. Accessed June 5, 2021. https://www.eatrightpro.org/acend/accredited-programs/about-accredited-programs 2. Cruwys T, Bevelander KE, Hermans RCJ. Social modeling of eating: a review of when and why social influence affects food intake and choice. Appetite. 2015;86:3-18. doi:10.1016/j.appet.2014.08.035 3. Krueger RA, Casey MA. Focus Groups: A Practical Guide for Applied Research. 5th ed. SAGE.

4. Verstraeten, R., Van Royen, K., Ochoa-Avilés, A., Penafiel, D., Holdsworth, M., Donoso, S., Maes, L., & Kolsteren, P. (2014). A conceptual framework for Healthy Eating Behavior in Ecuadorian adolescents: A qualitative study. PLoS ONE, 9(1). https://doi.org/10.1371/journal.pone.0087183 5. Venn, D., & Strazdins, L. (2017). Your money or your time? how both types of scarcity matter to physical activity and healthy eating. Social Science & Medicine, 172, 98–106. https://doi.org/10.1016/j.socscimed.2016.10.023 6. El-Mani, S. F., Mansour, R. M., Abdessamad, A. E., Al-Abbar, E. A., Shallouf, N., & Amer, R. (2020). Factors influencing eating behavior of Benghazi University students. Asian Journal of Medical Sciences, 11(4), 20–29. https://doi.org/10.3126/ajms.v11i4.26464 7.El Zein A, Shelnutt KP, Colby S, et al. Prevalence and correlates of food insecurity among U.S. college students: a multi-institutional study. BMC Public Health. 2019;19(1):660. Published 2019 May 29. doi:10.1186/s12889-019-6943-6 8. Silva FB. Osborn DE. Owens MR. Influence of COVID-19 Pandemic Restrictions on College Students' Dietary Quality and Experience of the Food Environment. Nutrients. 2021; 13(8): 2790. DOI: https://doi.org/10.3390/nu13082790 9. Choi J. Impact of Stress Levels on Eating Behaviors among College Students. Nutrients. 2020;12(5):1241. Published 2020 Apr 27. doi:10.3390/nu12051241 10. Boutté AK, Turner-McGrievy GM, Wilcox S, Liu J, Eberth JM, Kaczynski AT. Associations of maternal stress and/or depressive symptoms with diet quality during pregnancy: a narrative review. Nutr Rev. 2021;79(5):495-517. doi:10.1093/nutrit/nuaa019 11. Hill DC, Moss RH, Sykes-Muskett B, Conner M, O'Connor DB. Stress and eating behaviors in children and adolescents: Systematic review and meta-analysis. Appetite. 2018;123:14-22. doi:10.1016/j.appet.2017.11.109 12.Kobayashi S, Asakura K, Suga H, Sasaki S, Three-generation Study of Women on Diets and Health Study Group. Living status and frequency of eating out-of-home foods in relation to nutritional adequacy in 4,017 Japanese female dietetic students aged 18-20 years: A multicenter cross-sectional study. J Epidemiol. 2017;27(6):287-293. doi:10.1016/j.je.2016.07.002

Results

Participants' (N=42; ages 20-40 years) represented 23 US states and territories. Most (95%) were female. Major and minor themes of factors that affected interns' dietary intake are seen in Table 1. The majority of participant comments suggested a decline in dietary habits due to these factors. However, many interns indicated that there was an overall improvement or no change in their diet.

	Table 1. Summai
	Major The
Time	"I also did say that I find are doing, so if my prece they're eating at their dea
Finances	"It's kind of difficult to be
Access/Availability	"I don't have an oven. I h meal prepping on Sunda but I don't even have spa
Mental Load	"There's a lot of effort to who wants to do that? Es Nobody, nobody!"
Minor Th	
Social Influence	"I was in the eating disor was like a group partial I group, and so I made su and but also included t chocolate or just include

Table 1. Summary Of Themes

emes

myself doing what my preceptors eptor is taking a lunch every day, great. If esk, that's also what I'm doing."

e health conscious on a limited budget."

have a mini-fridge. And I'm used to like ays. And so then, I can just like grab and go, ace to meal prep."

o like, like y'all said, to cook a meal. Like Especially after food service rotation?

heme

order clinic. We were eating with everyone. It hospitalization, so we were eating with the are that whatever I had was balanced so things that, you know, like a little piece of led a variety of foods.

The issue of limited time impacting dietary habits appeared in previous research among adolescents and college students [4-6]. Research also confirmed the influence of financial constraints on diet patterns among the college student population, as 15-25% of college students were found to be food insecure or at-risk for food insecurity [7]. Regarding COVID-19 research has been conducted on the impact it has had on diet quality/intake, but there is a lack of existing research on the impact that COVID-19 has had on access to the space or environment to eat in the workplace [8]. The impact of mental load, including stress and burnout, parallels previous research regarding the link between stress and diet. College students with higher stress levels were at an increased risk for high intake of sugary snacks, fast food, frozen meals, and carbohydrate-rich items compared to those who reported lower stress [9-11]. Some interns relocated to complete their internship, while others lived at home with family. A study of female dietetic students in Japan found that those who lived away from home were less likely to meet their nutrient needs [12]. This was similar to the focus group's expression of dietary changes.

Finances, access/availability, mental load, time, and social influences impacted interns' diets. Dietetic internship programs and preceptors should explore ways to minimize the potential negative impacts of these factors on interns' dietary habits.



Discussion

Conclusion