# Prevalence of Meal Skipping among First-Year College Students with and without Food Allergies 

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## Introduction

A food allergy occurs when the body is hypersensitive to certain proteins within foods The CDC reports that rates of food allergies have risen by $50 \%$ from 1997 to $2011^{2}$. Given these rates, it is likely a greater proportion of young adults will enter college with food allergy.


A health condition like a food allergy can be life-threatening and challenging to control. Previous research looking at food allergies in the college student population found that many do not carry a self-injectable device (like an EpiPen), and some do not know how to use one or would be afraid to use one due to fear of needles ${ }^{3}$.

Meal-skipping is the practice of omitting one or more of the "traditional meal" from one's dietary patterns ${ }^{4}$. On-campus students with food allergies that eat at dining halls may experience even higher rates of meal-skipping due to lack of options, fear of cross contact (when certain proteins from one food mix in with another), or many other factors. If skipping meals is prevalent in this population, students may present with nutrition deficiencies.

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References




#### Abstract

\section*{Purpose}

To examine the meal skipping prevalence of first-year college students with and without food allergies to better understand the dietary habits of this population and highlight the need to provide support during this vulnerable time.




Key Findings
In the final sample ( $\mathrm{n}=2614$ ) of first-year students, $9.1 \%(\mathrm{n}=239)$ reported a food allergy(s)
No differences were observed between first-year students with food allergies and meal skipping prevalence compared to those without food allergies $(p=.71)$. Results from logistic regression analysis showed no differences between meal skipping in first year students when adjusting for gender ( $\mathrm{p}=.83$ ).

| Methods |
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| Participants: |
| Undergraduate college students, ages 18-24, were |
| recruited from an introductory nutrition course and |
| provided written consent to participate. (UNH IRB |
| \#5524). |
| Data Collection: |
| - Data were collected between from Fall 2012 to |
| Fall 2021 through the College Health and |
| Nutrition Assessment Survey (an ongoing, cross- |
| sectional study at a midsize, northeast public |
| university). |
| - Both food allergy status and meal skipping |
| prevalence were self-reported via online |
| questionnaire (Qualtrics). |
| - Meal skipping status was categorized into 4 |
| groups: $0,1-3,4-7$, and $\geq 8$ meals skipped per |
| week. |
| Data Management and Analysis: |
| - Data are presented as frequency percentages or |
| as means $\pm$ SD. |
| - Differences in meal skipping and allergy status |
| among first-year students were evaluated using a |
| chi-square analysis (p<.05). |
| - Logistic regression model assessed the |
| differences between meal skipping prevalence in |
| first-year students with food allergies and |
| adjusting for gender. |
| - All analyses were conducted by SPSS V28. |

## Implications for Future Research

- Our data do not show differences in meal skipping between first-year students with or without food allergies
- However, our data shows a high prevalence of overall meal-skipping in first-year students $(87 \%, \mathrm{n}=2106)$
- Future work may consider the impact of food allergies on students throughout the college experience, and the implications of food allergies on eating behaviors and nutrient intake or deficiencies in this population.


## Contact Information

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