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Introduction

- -1 in 3 college students tend to become less active (Huang et al., 2003)
- -Brewis et al. (2016) study shows less than 50% of students who live in dorms ate fruits.
- -The same study also found approximately 44% of the students live in dorms ate breakfast.

Introduction

-Abraham, Noriega, & Shin (2018) study concluded convenience and taste are a priority in making food choices.

Our Question:

Are off campus students are more likely to eat nutritious meals than those that live on campus?

Relevance

Nutrition= important aspect of physical and mental health

College students experience many challenges when it comes to proper diet (Finances, time, transportation, access to fresh produce)

Relevance

Our research examined the relationship between SJSU commutership and nutritional needs by asking questions about on campus vs off campus living situations and its effect on basic dietary choices

Operationalizing

Living Situation:

(Off-Campus vs. On-Campus)

Nutrition Assessment:

Weekly Fruits and Veggies

Daily Water Intake

Fast Food Consumption

Check Nutrition Label



VS.





Methods

Study design: Analytic Cross-Sectional

Source population: San Jose State Students





Methods - Data Collection

Instruments: Qualtrics survey, social media,
 SJSU Canvas, electronic devices (cell phones,
 tablets, laptops, computers)



- Procedure:
 - Survey collected on Qualtrics for accessibility
 - Shared through social media platforms and SJSU
 Canvas messaging
 - Each assigned one course outside of Public Health, unshared courses, organization

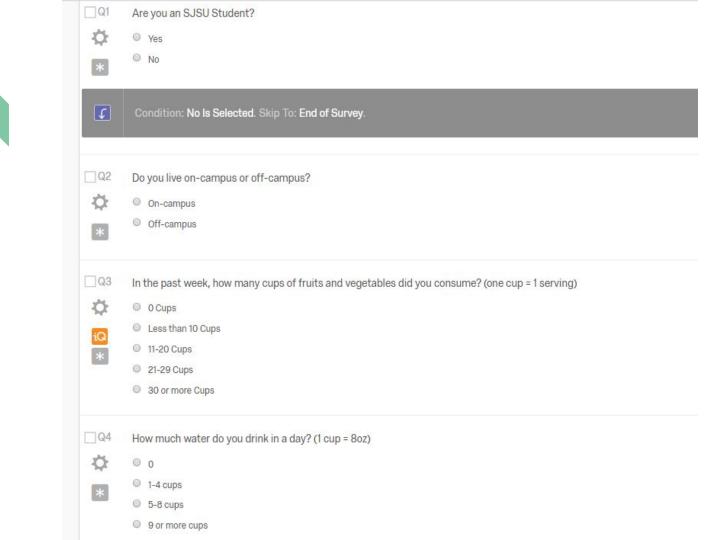


Methods - Samples

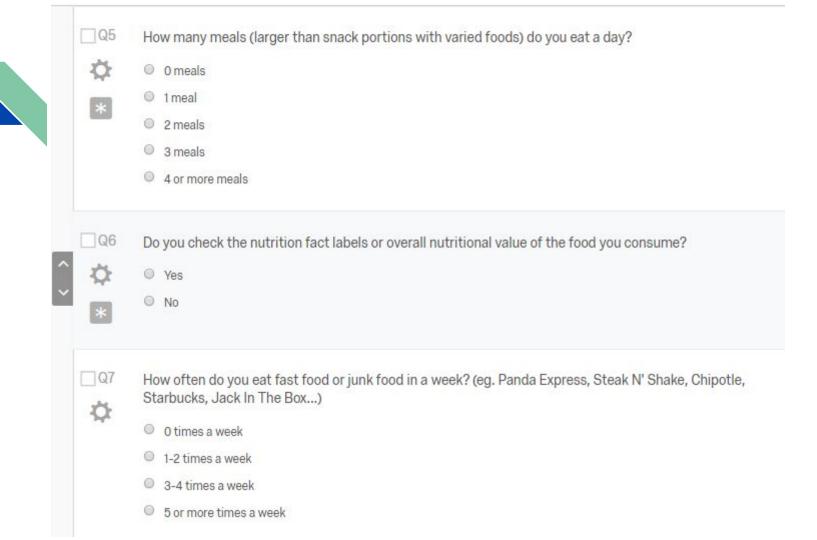
Sample Population: SJSU students from 10/16/2018 - 10/28/2018

Sample Participants: 169 participants, 163 SJSU students

Survey



	N	%	Fruit and Vegetable Consumption per week		
SJSU Students			0 cups	11	7.14%
			> 10 cups	100	64.94%
Yes	156	96.3%	11-20 cups	30	19.48%
No	6	3.7%	21-29 cups	10	6.49%
No response	0	0	30 or more cups	3	1.95%
Tro responde	Ĭ		No response	0	0
Living Situations			Water Consumption per day		
On compute	30	19.24%	0 cups (less than 1)	2	1.30%
On-campus	30	19.24%	1-4 cups	64	41.56%
Off-campus	124	79.48%	5-8 cups	57	37.01%
No response	2	1.28%	> 9 cups	31	20.13%
			No response	0	0%



Meals per Day				
0	0	0%		
1	14	9.09%		
2	85	55.19%		
3	51	33.12%		
4 or more	4	2.60%		
No response	0	0%		

Check Nutrition Label		
Yes	74	48.05%
No	80	51.95%
No response	0	0%
Fast Food Consumption per week		
0 times	17	11.04%
1-2 times	84	54.55%
3-4 times	35	27.73%
5 or more times	18	11.69%
No response	0	0%





Response Rate: 162/500 = 0.324 x 100 = 32.4%

Prevalence:

$$E_1 = 25/30 = 0.83 \times 100 = 83\%$$

$$E_0 = 112/124 = 0.90 \times 100 = 90\%$$

Response Rate: $162/500 = 0.324 \times 100 = 32.4\%$

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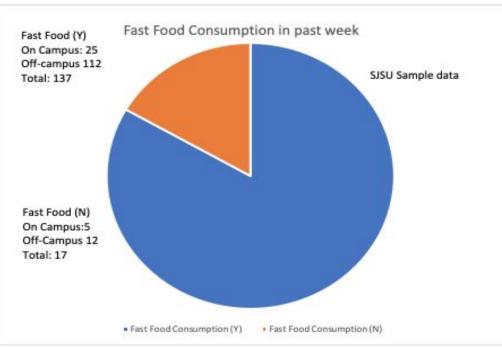
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Fast Food Consumption

	Fast Food Consumption (Y)	Fast Food Consumption (N)	Total
On campus	25	5	30
Off-campus	112	12	124
Total	137	17	154



Incidence Proportion

Students living on campus (exposed) = 83 percent fast food consumption Students living off campus (unexposed) = 90 percent fast food consumption

Incidence difference

 $0.83 - 0.90 = -7 \times 100 = -7 \text{ per } 100 \text{ people (exposed-unexposed)}$

For every 100 students on campus there are 7 less cases of fast food consumption compared to off-campus students.

Incidence ratio

0.83/0.90 = 0.92 (exposed/unexposed)

Therefore, students living on campus are 0.92 times as likely to eat fast food compared to students who live off campus.

Demographics

Did not stratify our data into descriptive categories such as race, age, or gender

Interpretations

From our study, the results show that students who live off-campus tend to consume more fast food than those who live on campus.

Off-campus students often eat more meals and are more aware of their nutritional values than on-campus students.

Strengths

- Study Design
 - Cross-sectional
 - Fast and accessible
 - Done at no cost to either party
 - Good for fast associations first round of study
 - Analytic
 - Adds to quick responses, short survey
 - Removes overly-personal questions
 - Gives data fast

Strengths

- Survey platform and accessibility
 - Not having to go around from individual to individual
 - Removes tension
 - Available on many electronic devices
 - Single shared link
- Short
 - Nothing too personal, not much thought required
 - 2-3 minute survey
- Anonymous
 - More inclined to honestly answer

Limitations

- A limitation within the survey was being able to distribute the survey to more on-campus students
- Thus leading to a substantial difference and possibly underestimating actual on-campus sample responses towards fast-food consumption
- The uneven distribution of the sample population may have led to an unreliable generalizability for the group that is not equally represented

Q2 - Do you live oncampus or offcampus?	Distribution (%)	Actual Count	Weight
On-campus	19.48	30	1
Off-campus	80.52	124	1
	100	154	

Potential Biases

- The questions provided in the survey were standardized in hopes of reducing bias and confounding factors
- Through distribution Methods of MyCanvas, <u>Selection bias</u> was identified as distribution was mostly sent through the Health Science courses student roster
 - Health Science students may be more health conscious of their fast-food consumption compared to general SJSU students
- Recall bias was acknowledged as students may not accurately remember their fast-food consumption from a previous week

Considerations

- Age could play a large factor in fast-food consumption
 - When conducting another survey on the topic of Fast Food consumption, age should be included in the questionnaire as it can be a confounding variable
 - Age could associate to younger people consuming more fast food whether on or off-campus and vice versa for older people who may consume less fast food
- Definition of fast food in the survey was not carefully detailed
 - An exhaustive explanation of what constitutes fast food may be more appropriate for further investigations as there may have been some variability in our results due to individual beliefs

Conclusion

- Students who live off-campus tend to consume more fast food than those who live on campus
- Off-campus students eat more meals throughout the day and are more aware of nutritional values
- Data that was collected was not an accurate representation of all SJSU students

References

Brewis A., Brennhofer S., van Woerden I., Bruening M. Weight stigma and eating behaviors on a college campus: Are students immune to stigma's effects? Prev. Med. Rep.2016;4:578–584.

Small, M., Bailey-Davis, L., Morgan, N., & Maggs, J. (2013). Changes in eating and physical activity behaviors across seven semesters of college: living on or off campus matters.

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