# Weekly Consuption of Fruits and Vegetables Among Undergraduate Students 

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# Weekly Consumption of Fruits and Vegetables Among Undergraduate Students 

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## Abstract

Background - Intake of fruits and vegetables is important in the overall health and Bellness of individuals. Diseases such as coronary heart disease, diabetes and some
cancers can be associated with a healthy lifestyle including a diet rich in fruits and vegetables. ${ }^{1}$ Fruits and vegetables are high in micronutrients and antioxidants that are beneficial to our health. ${ }^{2}$
Objective - The purpose of this study is to understand the choices students make regarding food after leaving their family homes. To see when left on their own and the
influence of their new college lifestyle has affected their diets. This study will help to evaluate the need for nutrition education on campus.
Design - The design was a survey questionnaire given to students prior to the start of evaluate the ned der was a survey questionnaire given to students prior to the start of
Design - The design wer
their class. The research was collected at the beginning of the month of September their class. The research was collected at the beginning of the month of Sep
2021 . Statisistical Analysisis - Excel® was used to organize the data
Results - There were a total of 19 males and 31 females ( $n=50$ ). The results from this
Ster study have confirmed what these studies have states, which is that very few participants consumed even 3 servings of their fruits $(1 \%$ ) and vegetables $(5 \%)$ per meal. Conclusion - The data showed that the majority of undergraduate students do not meet
the daily recommended intake of fruits and vegetables.

## Objective

The objective of this study is to understand the choices students make regarding food The objective of this study is to understand the choices students make regarding food
after leaving their family homes. To see when left on their own and the influence of their new college lifestyle has affected their diets. This study will help to evaluate the
need for nutrition education on campus. need for nutrition education on campus.

## Introduction

 As college studdents leave their family homes, they experience many challenges andlifestyle changes. They begin to make their own decisisons influenced by onther factors
outside of their family units. These factors can include finances, peers, and outside of their family units. These factors can include fininances, peers, and
convenience College suduents are busy and want to be with their friend con onvenience.College students are busy and want to be with their friends constantly
Meaning they are not grocery shopping or spending significant time preparing and Meaning they are no
cooking their food.
Do the new influences and lifestyles of living outside of the family home affect the
intake of fruits and vegetables of the college student? Intake of fruits and vegetables is intake of fruits and vegetables of the college student? Intake of fruits and vegetables is
important in the overall health and wellness of individuls. important in the overall health and wellness of individuals.
Previous studies hhve noted that fruit and vegetable consumption can impact the
prevalence of chronic diseases. 14 Diseases such as coronary heart disease, diabetes some cancers can be associated with a healthy lifestyle including a diet rich in fruits and
 beneficial to our health. ${ }^{23}$ In one study it was reported that only about $5 \%$ of college
students eat the daily recommended value of 5 servings of fruit and vegetables a day. ${ }^{4}$ students eat the daily recommended value of 5 servings of frut and vegetables a day. ${ }^{4}$
That is less than half of the population of students. Another study said that "Fewer than $18 \%$ of American adults meet the daily recommendations for fruit and vegetable servings." ${ }^{2}$ This shows she eve anter college there is a gap in the diet of the American
dulut, but it is sspecially low in college students and that could be due to the chanes adult, but $i$ it is especially low in college students and that could be due to the changes in
lifestyle. Understanding the amount of fruits and vegetables that are consumed by the average college student can help to evaluate the choices made in the new transition of average collegif state

## Methodology

 ey whid alow hirir studs to parip those who agreed participated in the study. questionnaire. f the study and create various diagrams to present the data graphically.Table 1. Survey Questionnaire

This research was sent to the Ouachita Baptist University Institutional Review Board in September 2021, in which approval was granted. The questionnaire asked question regarding fruit and vegetable intake among undergraduate students on a weekly basis.

The first five questions of the questionnaire collected demographic information, such as age, gender, race, academic school and student classification (i.e. freshman, sophomore, nor, senior). The following questions collected data on whether
articipants were aged $18-22+$ years and were randomly selected students on Ouachita Baptist University's campus. Emails were sent to professors around campus to see if

The questionnaire was either given to the professor in person, or set in their box outside of their office. The professor then handed out a paper copy of the survey to the students hat wanted to participate. Participants were given the informed consent form in person, o sign and date, and once completed, they were given the questionnaire. The
participants had 15 minutes to fill out the informed consent form and complete the

The statistical analysis was conducted using Excel®. The data collected from the urvey questionnaires were compiled into an Excel@ worksheet to examine the findings


## Results

There were a total of 19 males and 31 females $(n=50)$. Of the 50 participants, $8(16 \%)$
were $18,13(26 \%)$ were $19,12(24 \%)$ were $20,10(20 \%)$ were 21 and $7(14 \%)$ were 22 were $18,13(26 \%)$ were $19,12(24 \%)$ were $20,10(20 \%)$ were 21, and $7(14 \%)$ were 22
years old or older. $40(80 \%)$ of the participants were Caucasian $3(6 \%)$ were Hispanic years old or older. $40(80 \%)$ of the participants were Caucasian, $3(6 \%)$ were Hispanic,
$3(6 \%)$ were African American, $2(4 \%)$ were Asian, and $2(4 \%)$ identified as Other. $3(6 \%)$ were African American, $2(4 \%)$ were Asian, and $2(4 \%)$ identified as Other. 7 $(14 \%)$ of the participants were freshmen, $14(28 \%)$ were sophomores, $13(26 \%)$ were
juniors, and $16(32 \%)$ were seniors. Of the participants, $37(74 \%)$ belonged to the J.D. Patterson School of Natural Sciences, $5(10 \%)$ to the W.H. Sutton School of Social Sciences, $5(10 \%)$ to the Michael D. Huckabee School of Education, 3 ( $6 \%$ ) to the Frank D. Hickingbotham School of Business, $2(46$ ) to tel School of Humanities, $1(2 \%)$ to the School of Fine Arts. $3(6 \%)$ of the participants were double majors.

Table 1. Survey Questionnaire

| $\begin{gathered} \text { Demographics } \\ \mathrm{n}=50 \\ \hline \end{gathered}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gender | Male <br> 19 (38\%) | Female |  |  |  |  |
| Age | $\left.\right\|_{8(16 \%)} ^{18}$ | $\left.\right\|_{13(26 \%)} ^{19}$ | $\begin{aligned} & 20 \\ & 12(24 \%) \end{aligned}$ | $\begin{aligned} & 21 \\ & 10(20 \%) \end{aligned}$ | $\begin{aligned} & 222 \\ & 7(14 \%) \end{aligned}$ |  |
| Race | $\begin{aligned} & \text { Caucasian } \\ & 40(80 \%) \end{aligned}$ | $\begin{aligned} & \hline \text { Hispanic } \\ & 3(6 \%) \end{aligned}$ | African American 3(6\%) | $\begin{array}{\|l\|l\|} \hline \text { Asian } \\ 2(4 \%) \end{array}$ | $\begin{array}{\|l\|l} \hline \text { Other } \\ 2(4 \%) \end{array}$ |  |
| Classification | $\left.\right\|_{\text {Freshman }} ^{7(14 \%)} \mid$ | Sophomore $14(28 \%)$ | $\begin{array}{\|l\|l} \text { Junior } \\ 13(26 \%) \end{array}$ | Senior <br> 16 (32\%) |  |  |
| Academic <br> School | J.D. Patterson School of Natural 37 (74\%) |  | Michael <br> D. <br> Schackee <br> Education <br> 5 (10\%) | Frank D. Hickingbotha m School of Busines | School of Humanitie 2 (4\%) | School of fine Arts $1(2 \%)$ |

The results of this sudy showed that 29 participants consumed fruits at breakfast, while only 3 participants consumed vegetables at breakfast. 34 participants consumed fruits at lunch while 44 participants consumed vegetables at lunch. 20 participants consumed fruits at
dinner, while 48 participants consumed vegetables at dinner. $45(90 \%)$ consumed fruits as as dinner, while 48 participants consumed vegetables at dinner. $45(90 \%$ ) consumed fruits as as
snack everyday, while $5(10 \%)$ did not. Vegetables were consumed as a daily snack by 33 ( $66 \%$ ) of participants consumed 1 serving of fruit per meal, and $35 \%$ of participant consumed 1 serving of vegetables per meal. Two servings of fruit were consumed in only $11 \%$ of participants, while $22 \%$ consumed two servings of vegetables per meal. Very few participants consumed 3 servings of fruits $(1 \%)$ or vegetables ( $5 \%$ ) per meal.


## Results cont.


igure 2. Amount of servings of fruits and vegetables consumed at each meal.

## Conclusion

The data showed that the majority of undergraduate students do not meet the daily recommended intake of fruits and vegetables. The classes in which the questionnaires were e given were nutrition classes, therefore, it can be deduced that these students have a
basic cunderstanding of how important fruit and vegetable consumption is, yet they still failed to meet the recomen important fruit and vegetable consumption is, yet hermis why undergraduate students are not meeting the daily recommended intake of fruits and yegetables. The hope is to close the gap between the knowledge and actual consumption habits may be avoided. In undergraduate students, this is difficult due to the transition of moving out and making their own decisions on top of a busy schedule.

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