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INTRODUCTION AND PURPOSE

Literature:

- Appalachia faces oral health disparities to combat the "silent epid where more than 90% of the Appalachian population suffers from by 44 years of age and over 1/2 of adults have periodontal diseas et al., 2018).
- Residents in rural Appalachia are less likely than urban residents dentists, more likely to have no dental insurance, suffer disproper of missing teeth (Savage et al., 2018).
- The low range of dental services that Medicaid can cover in Kent about 1/4 of the population with unmet dental services (Wang et a
- In a survey conducted to investigate oral health behaviors among students in Indonesia, Malaysia, Myanmar, Thailand, and Vietnar researchers found the following: 27.7% of students reported som having tooth ache in the past 12 months, 39.4% reported having cavities, 20.3% did not brush their teeth twice or more times a day not use toothpicks twice or more times a day, and 30.9% had new dentist (Peltzer & Pengpid, 2017).
- The CDC found that the prevalence of dental caries among Amer aged 20-64 years old was 90% (Oral Health Surveillance Report, 2021).
- Oral health should always be looked at as a part of an individual's health, as oral disease have strong links to other noncommunicat such as diabetes and cardiovascular diseases (Duangthip & Chu

Purpose of this study:

 The purpose of this study was to assess self-reported oral hygier and prevalence of dental caries among Kentucky students living

Hypotheses:

- 1. Students who reside in suite style dorms will have a higher freque brushing, flossing, and lower prevalence of dental caries, compare students who live in community style rooms.
- 2. Students who identify as females will have better oral hygiene be students who identify as males.

METHOD

Participants:

- Undergraduate students, 18 years of age and older and enrolled Kentucky university campus.
- Participants from the Kentucky university campus must be an unc student and be a resident of student housing.

Survey:

- The Oral Health Behaviors for University Students (OHBUS) Surv question survey assessing student behaviors regarding their oral dental caries. The survey was created by a graduate researcher a committee. The OHBUS was pilot-tested for clarity and understar
- 5 demographic questions, 7 questions regarding a participant's or behaviors, 1 question regarding dental insurance, 1 question abo behaviors, 1 question about chewing tobacco, 2 questions regard food and drink intake; and 4 questions about perceived oral healt
- Distribution of survey was via email between March 6th- 24th, 2023
- 333 students completed the survey

Data Analysis:

• Means, Standard deviations, Proportions/Percentages, and Chi square analysis

Oral Hygiene Behaviors and Prevalence of Dental Caries for Students Residing on a Kentucky University Campus

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	RESULTS: DATA					
demic", h tooth decay se (Savage	Oral health behaviors/ dental caries	Suite Style n=161	Community Style n=122	χ ²	P-value	
s to visit ortionate rates	Brushing	148	97	9.21	0.002*	Nat
tucky affects al., 2021). a university	Flossing	90	61	.97	.324	
m, netimes one or more	Dental caries	33	25	0.0	.99	
ay, 89.5% did ver been to a	*p<.05					
rican adults , 2019, 's general	Oral health behaviors/ dental Caries	Male n=49	Female n=202	χ²	P-value	
ble diseases 1, 2020).	Brushing	43	185	0.69	0.41	
on campus.	Other Cleaning Aids	23	117	1.93	.17	
ared to ehaviors than	Dental caries	5	42	2.91	.09	
	*p<.05					250
at a regional	Dorm Living Space					
dergraduate	43%					100
vey is a 21- I hygiene and and their nding. oral hygiene out smoking	57%					
ding sugar th. 23.	Suite style Community Style					



RESULTS AND DISCUSSION

Students who reside in suite style dorms will have a higher frequency brushing, flossing, and lower prevalence of dental caries, compared to students who live in community style rooms.

The study showed a statistically significant difference (p<.05) between dorm styles and brushing teeth with the proportion of suite style residents reporting more brushing, $\chi^2(1, n=283)=9.21$, p= 0.002. The study showed that there was no statistically significant difference between dorm style and flossing, $\chi^{2}(1,n=283)=0.971,p=0.324$, or between dorm style and self-reported dental

Students who identify as females will have better oral hygiene behaviors

The study showed no statistically significant difference (p<.05) between males/females and brushing, $\chi^2(1, n=251)=0.69$, p= 0.69. Additionally, there was no statistically significant difference (p<.05) between males/females reporting they used other cleaning aids $\chi^2(1, n=283)=1.93$, p= 0.17. Lastly, there was no statistical significance (p<0.05) in results between males/females and prevalence of self-reported dental caries $\chi^2(1,$

Results of the study revealed that the self reported prevalence of dental caries was 20% among survey participants.

10% of males reported dental caries compared to 20% of females 73.4% of students reported that their oral health played a role in self

Implications and Recommendations

Whether students live in a suite style or community style dorm affects brushing teeth behaviors. However, whether a student lives in a suite style or community style dorm does not affect flossing behaviors or number of self

Gender does not seem to play role in oral health behaviors or self reported

Future studies should investigate oral health behaviors based on age and/or race/ethnicity. Another focus should be on assessing oral health knowledge in students residing in on campus dorms. Additionally, further studies can look at overall general perceptions of their oral health.

REFERENCES

1.) Duangthip, D., & Chu, C. H. (2020). Challenges in Oral Hygiene and Oral Health Policy. Frontiers in Oral

https://www.cdc.gov/oralhealth/publications/OHSR-2019-index.html

3.) Peltzer, K., & Pengpid, S. (2017). Dental health status and oral health behavior among university students from five ASEAN countries. Nagoya Journal of Medical Science, 79(2), 123–133.

4.) Savage, M. W., Scott, A. M., Aalboe, J. A., Burch, S., Stein VanArsdall, P. S., & Mullins, R. (2018). Oral health beliefs and behavior among young adults in Appalachian Kentucky. Journal of Applied Communication Research 46(1), 113–134. https://doi.org/10.1080/00909882.2017.1382705

5.) Wang, T. T., Dixon, E. L., Bair, E. F., Ferrell, W., Linn, K. A., Volpp, K. G., Underhill, K., & Venkataramani, A. S. (2021). Oral health and oral health care use among able-bodied adults enrolled in Medicaid in Kentucky after Medicaid expansion: A mixed methods study. Journal of the American Dental Association (1939), 152(9), 747-

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