INTRODUCTION AND PURPOSE

LITERATURE:
- Appalachia faces oral health disparities to combat the “silent epidemic,” where more than 90% of the Appalachian population suffers from tooth decay by age 44, and 89% of adults over 64 have untreated dental caries (Savage et al., 2018).
- Residents in rural Appalachia are less likely than urban residents to visit dentists, more likely to have no dental insurance, suffer disproportionately rates of missing teeth (Savage et al., 2018).
- The low range of dental services that Medicaid can cover in Kentucky affects about 1/4 of the population with untreated dental services (Wang et al., 2021).
- In a survey conducted to investigate oral health behaviors among university students in Indonesia, Malaysia, Myanmar, Thailand, and Vietnam, researchers found the following: 27.7% of students reported sometimes having toothache in the past 12 months, 39.4% reported having one or more cavities, 20.3% did not brush their teeth twice or more times a day, 89.5% did not use toothpicks twice or more times a day, and 30.9% had never been to a dentist (Pellet & Pengpid, 2017).
- The CDC found that the prevalence of dental caries among American adults aged 20-64 years old was 90% (Oral Health Surveillance Report, 2019).
- Oral health should always be looked at as a part of an individual’s general health, as oral disease can lead to other noncommunicable like diabetes and cardiovascular diseases (Duangthip & Chu, 2020).

PURPOSE OF THIS STUDY:
- The purpose of this study was to assess self-reported oral hygiene practices and prevalence of dental caries among Kentucky students living on campus.

HYPOTHESES:
1. Students who reside in suite style dorms will have a higher frequency of brushing, flossing, and lower prevalence of dental caries, compared to students who live in community style rooms.
2. Students who identify as females will have better oral hygiene behaviors than students who identify as males.

METHOD

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

SURVEY:
- The Oral Health Behaviors for University Students (OHBUS) Survey is a 21-question survey assessing student behaviors regarding their oral hygiene and dental caries. The survey was created by a graduate researcher and their colleagues. The OHBUS was pilot-tested for clarity and understanding.
- 5 demographic questions, 7 questions regarding a participant’s oral hygiene behaviors, 1 question regarding dental insurance, 1 question about smoking behaviors, 1 question about chewing tobacco, 2 questions regarding sugar food and drink intake, and 4 questions about perceived oral health.
- 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

RESULTS AND DISCUSSION

Students who reside in suite style dorms will have a higher frequency of 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<0.05) between dorm styles and brushing teeth with the proportion of suite style residents reporting more brushing, χ²(1, n=283)=9.21, p= 0.002. The study showed that there was no statistically significant difference between dorm styles and flossing, χ²(1, n=283)=0.577, p= 0.24, or between dorm style and self-reported dental caries, χ²(1, n=283)<0.0001, p= 0.99.

Students who identify as females will have better oral hygiene behaviors than students who identify as males.
- The study showed no statistically significant difference (p>0.05) between males/females and brushing, χ²(1, n=251)=0.69, p= 0.69. Additionally, there was no statistically significant difference (p>0.05) in results between males/females and prevalence of self-reported dental caries χ²(1, n=283)=2.91, p= 0.09.

OTHER FINDINGS:
- Results of the study revealed that the self-reported prevalence of dental caries was 20% among survey participants.
- 10% of men reported dental caries compared to 20% of females.
- 73.4% of students reported that their oral health played a role in self-confidence and how they looked or felt.

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-reported dental caries.
- Gender does not seem to play a role in oral health behaviors or self-reported dental caries.
- Future studies should investigate oral health behaviors based on age and/or race/ethnicity. Another factor 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

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