Sound Rage: A Review of the Implications of Misophonia for College Age Students

Emilie Schramer and Alicia Pensamiento
Speech and Hearing Science, Auditory Cognitive Neuroscience Lab, University of Illinois at Urbana-Champaign

INTRODUCTION

What is misophonia?
• A relatively recently identified disorder in humans, only recognized as a medical disorder since 2001
• Individuals have low tolerance and extreme sensitivity to certain sound stimuli (mouth sounds, eating, nasal sounds, rustling or crinkling, repetitive tapping, etc).
• Many act on this sensitivity with outbursts, rage, avoidance, or other uncontrollably negative emotions
• Familiarity component: misophonic reactions typically worsen when the sounds are produced by parents or siblings

How is it classified or diagnosed?
• Misophonia has disordered aspects in audiology, with the sound sensitivity, as well as psychological components: anxiety, rage, and common co-occurrent disorders such as OCD or eating disorders
• Currently many assessments created to diagnose/study misophonia among researchers (not standardized)
• Variation in definition and diagnostic criteria → no official diagnostic formulation within the DSM-V or ICD-10

AIM
To investigate existing literature, synthesizing research on misophonia in the population of college age students in order to understand any patterns. Particularly, our interest lies in the potential negative effects misophonia has on college students’ learning.

LITERATURE SEARCH

We conducted a review of already-published articles on misophonia. This was done in this sequence.

Initial UIUC Library Database Search
• Search term “misophonia”
• 2006 – 2022
• Academic Journal Articles (534)
• Main Databases: 122 Complementary Index, 112 MEDLINE, 105 Academic Search Ultimate
• Expository information gained

Targeted UIUC Library Database Search
• Search term “misophonia” + “college”
• 2006 – 2022
• Academic Journal Articles (181)
• Main Databases: 74 Scopus, 69 Academic Search Ultimate, 20 MEDLINE
• Specific, college-age population information gained

Inclusion and Exclusion of Articles
• Inclusion was then based on a main focus of misophonia as the subject of research, and any level of description of college age population relating to misophonia
• Type of study was irrelevant: we used case studies, experiment/intervention designs, other scoping reviews, etc.
• Exclusion of studies occurred for articles which returned key terms yet did not discuss the college age population specifically

RESULTS

Findings on Prevalence
No widely endorsed guidelines – different definitions of misophonia result in different prevalence reports
• Three main studies focus on prevalence of misophonia among college-aged students

Of these 3 studies:
• Wu et. al (2014) study found 20% with clinically significant misophonia
• Zhou et. al (2017) found 20% with clinically significant misophonia
• Naylor et. al (2020) found 49.1% with clinically significant misophonia

• Compared to general population with about 15% prevalence of misophonia, on average misophonia may affect between 20-25% of the college student samples
• Generalizability is not strong

Findings on Academic Environment
• Survey of 686 professors in the state of Florida
• Only 18.4% self-reported knowledge of misophonia
• Very few professors reported knowledge of accommodations for misophonia
• While there is currently limited information, prevalence rates of misophonia in college-age population may either mirror or be at higher levels than the general population
• Very few professors reported knowledge of accommodations, reflecting a lack of awareness about possible accommodations
• Students with misophonia not likely to get accommodations → academics will suffer
• However, there is a willingness to accommodate these students that may be even greater when education is provided to non-knowledgeable professors
• Educating professors about misophonia is a priority

DISCUSSION

Problems
• Few studies available which focus on misophonia and college-age students
• Even fewer give data on incidence/prevalence
• Very different diagnostic criteria or assessments → different prevalence findings
• External validity unreliable → no conclusion can be drawn on increased prevalence of misophonia for college students vs. general population

Implications on Academic Success
• While there is currently limited information, prevalence rates of misophonia in college-age population may either mirror or be at higher levels than the general population
• Even fewer give data on incidence/prevalence
• Very different diagnostic criteria or assessments → different prevalence findings

REFERENCES

ACKNOWLEDGEMENTS
Our mentor, Callie Brennan of the Auditory Cognitive Neuroscience Lab, and AuD student.

Familiarity component: misophonic reactions typically worsen when the sounds are produced by parents or siblings