ASHES, Vol. 14(8) - Just scratching the surface: Potential psychiatric morbidities underlying tobacco dependence

July 31, 2018

Editor's Note: This science review was written by Eamon Atri, a rising junior at Boston College. Mr. Atri is conducting research at the Division on Addiction this summer.

According to the <u>CDC</u>, smoking causes more than 480,000 deaths in the US alone. In the same vein, smokers in the US are more likely than the general population to suffer from a psychiatric or substance use disorder. The connection between smoking and mental health has not been as thoroughly examined outside the US. This week, ASHES reviews a <u>study</u> that observes trends in an Indian sample of tobacco users and non-tobacco users to determine if there is a connection between tobacco usage and *psychiatric morbidity* (i.e., presence of at least one mental illness).

What was the research question?

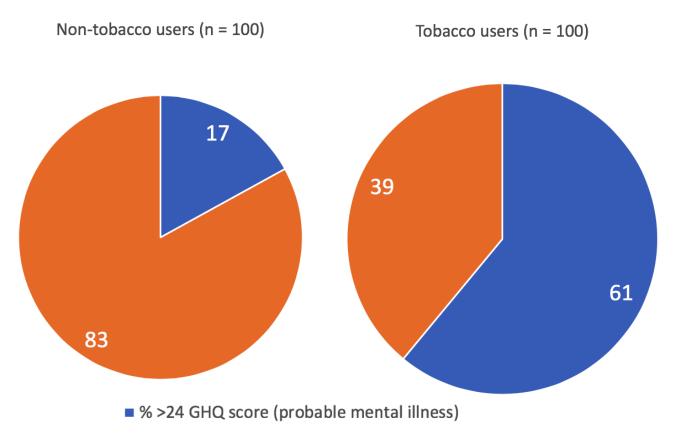
Do tobacco users have a higher level of psychiatric morbidity than non-tobacco users?

What did the researchers do?

The researchers recruited 200 out-patients from the Sinhgad Dental College and Hospital in India. Half of the participants were tobacco users and the other half reported never using tobacco in their lives. All participants completed the <u>General Health Questionnaire-28</u> (GHQ), a questionnaire often used to determine whether a respondent has a psychiatric disorder or is at risk of developing one. A score of 24 or less suggests that a person is mentally healthy whereas a score of greater than 24 indicates the presence or potential existence of a mental illness. The researchers also recorded participants' daily frequency of tobacco use and how many years they have been using tobacco.

What did they find?

A far greater percentage of tobacco users had a potential mental illness (61%) compared to non-tobacco users (17%). As a person's frequency of tobacco usage and duration of tobacco usage increased, so did their GHQ score.



■ % ≤ 24 GHQ score

Figure. The percentage of non-tobacco users and tobacco users who have scored over 24 on the GHQ or less than/equal to 24 on the GHQ. Click image to enlarge.

Why do these findings matter?

The results of this study provide a non-US perspective on the idea that people dependent on tobacco products are much more likely to have psychiatric morbidity. While many of the participants could have been using tobacco to cope with the stress they feel in life, at least some could also be using tobacco to manage symptoms of an underlying mental ailment. If a mental ailment is at least partially responsible for a given case of tobacco dependence, therapy could drastically improve recovery rates. The results of this study therefore implicate the necessity of having addiction/rehabilitation treatments mixed with psychosocial counseling.

Every study has limitations. What are the limitations in this study?

The method of testing for mental health (the GHQ) is customarily used for

screening for low-severity and minor mental illnesses and the version used in this study is particularly limited. Another limitation of this study was that it excluded people who have a dependence or addiction to a drug other than tobacco. Perhaps psychiatric morbidities are not just connected to tobacco dependence but to addictive substances more broadly. Finally, this study was <u>cross-sectional</u>, which means that even if evidence points to a connection between mental illness and tobacco dependence, this does not prove that one can directly cause or lead to the other.

For more information:

Individuals who are concerned about their own smoking or vaping can find resources to help them quit at <u>smokefree.org</u>. Others struggling with their substance use more generally may benefit from using <u>SAMHSA's National</u> <u>Helpline</u>. For additional tools, please visit the BASIS <u>Addiction Resources</u> page.

— Eamon Atri

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