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The DRAM, Vol. 18(8) - Destitute, depressed, and dependent: A pathway from socioeconomic deprivation to alcohol dependence

Many countries are currently facing an equity crisis as income inequality has grown in recent decades. This is especially alarming, given that socioeconomic status is predictive of poor health outcomes including depression, sleep quality, and even mortality. There are also connections between socioeconomic status and drinking behaviors and outcomes. Understanding this relationship is an important step towards developing stronger and more effective intervention plans. This week, The DRAM reviews a study by Ruichong Shuai and colleagues that examined an indirect pathway from socioeconomic deprivation to alcohol dependence. This mediational pathway involves aversive experiences, symptom internalization, and drinking as a coping mechanism.

What was the research question?

Are there observable pathways from poor socioeconomic status to alcohol dependence?

What did the researchers do?

The research team recruited 512 participants and collected information on demographics, reward expectations (i.e., what people hope to gain from drinking), and motivations for drinking. Participants completed a battery of assessments covering five concepts the research team hypothesized were part of the mediational pathway. These concepts were socioeconomic deprivation, aversive experiences, symptom internalization (i.e., experiencing depression/anxiety), drinking as a coping mechanism, and finally susceptibility to alcohol dependence. The research team restricted the sample to include only the 219 participants who were between ages 18 and 25 and reported hazardous drinking in the past year, to ensure the data met the assumptions behind the multiple regression models they used.

What did they find?

Notably, the research team did not find a direct relationship between socioeconomic deprivation and alcohol dependence. However, the researchers did find a significant indirect path from socioeconomic deprivation to alcohol dependence through the three mediating variables: aversive experiences, symptom internalization, and drinking as a coping mechanism (see Figure). Put another way, being poor increases the risk for alcohol dependence because it increases the risk for painful experiences, resulting in depression and anxiety, and drinking to cope with those feelings. Each variable was most strongly associated with the next one in the sequence, further supporting the validity of this temporal model.

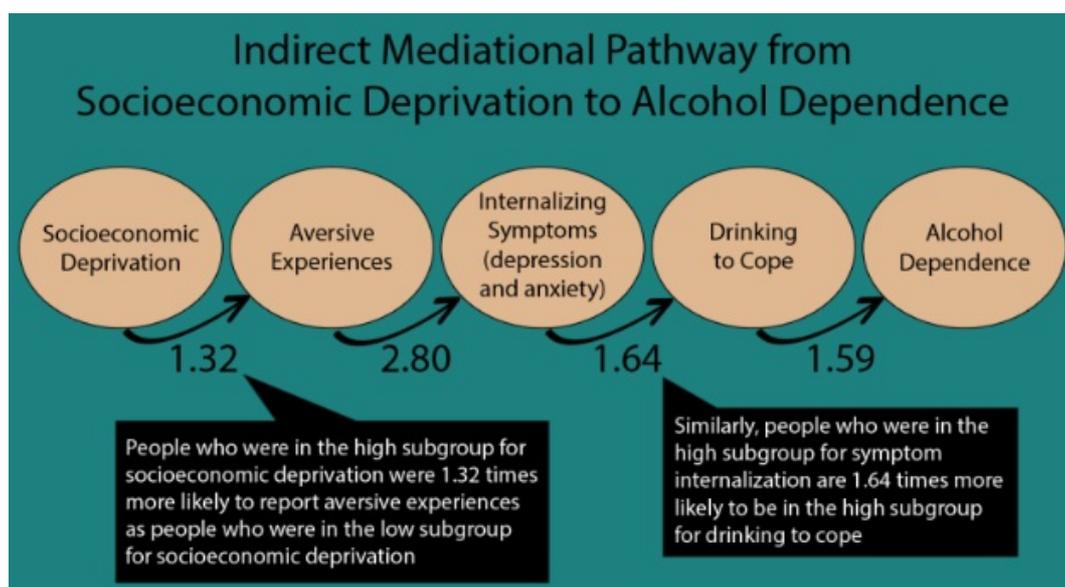


Figure. Indirect pathway from socioeconomic deprivation to alcohol dependence. The numbers on the lines between variables represent the risk ratio of being in the high subgroup of the next variable after experiencing the antecedent variable. For example, participants who were in the high subgroup on socioeconomic deprivation were 1.32 times more likely to be in the high subgroup on experience aversive experiences than participants low in socioeconomic deprivation. Similarly, participants who experienced these aversive experiences were 2.80 times more likely to experience internalizing symptoms. Click image to

enlarge.

Why do these findings matter?

These findings show the importance of a holistic approach to addiction treatment. Alcohol dependence does not manifest in a vacuum. Rather, there are several points at which health professionals can intervene to prevent the development of drinking-related problems. These findings also provide more insight into the [alcohol-harm paradox](#), the tendency for socioeconomically deprived people to experience greater harm from alcohol than wealthier people despite the fact that they do not drink more. Perhaps the [effects of chronic, toxic stress](#), due to aversive experiences and resulting mental suffering, lead to a weakened body that cannot respond as well to alcohol.

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

The majority (86.3%) of this study's participants were undergraduate women so these results may not be [generalizable](#) to the population. Additionally, while this study proposed a [causal](#) pathway, the study surveyed participants [at a single time point](#) and thus could not establish the sequence of events over time. [Longitudinal studies](#) can provide more evidence of causality.

For more information:

Individuals who are concerned about their drinking behavior may find support through [Alcoholics Anonymous](#). Others who wish to learn more about alcohol dependence may benefit from the [Cleveland Clinic's educational resources](#). Additional resources can be found on the BASIS [Addiction Resources](#) page.

-- John Slabczynski

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