An Experimental Study on the Impact of a Food Addiction Explanatory Model of Eating Behaviors on Stigma Related To Weight

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Abstract

This study explores the relationship between the explanatory model of food addiction and its impact on stigma related to weight. With rising concerns about obesity and its social implications, understanding how different narratives about eating behaviors a fect societal attitudes is crucial. This research employs an experimental design to evaluate whether framing eating behaviors as an addiction infuences perceptions of individuals with obesity and the associated stigma. The findings indicate that the food addiction model may reduce blame but also has the

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perceived control over eating behaviors.

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e study sample consisted of 300 adults, recruited through online platforms. e demographic characteristics of the sample, including age, gender, and body mass index (BMI), were recorded to ensure a diverse representation.

Participants were rst provided with a brief description of the study and gave informed consent. ose in the food addiction group read a passage explaining obesity in terms of food addiction, emphasizing biological predispositions and neurological responses to food. e behavioral model group read a passage explaining obesity as a result of poor eating habits and lack of exercise. e control group did not receive any explanatory passage.

A er reading the passages, participants completed the following measures:

• f_{1} : Assesses negative attitudes and beliefs about individuals with obesity.

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/ : Evaluates participants' perceptions of how much control individuals with obesity have over their eating behaviors.

Data were analyzed using ANOVA to compare stigma, blame, and perceived control across the three groups. Post-hoc tests were conducted to identify speci c group di erences. Additionally, regression analyses were performed to examine the relationship between demographic factors and stigma levels [3].

Participants exposed to the food addiction explanatory model reported signi cantly lower levels of stigma compared to those in the behavioral model group (p <0.05). However, the stigma levels in the food addiction group were still higher than those in the control group (p <0.05), indicating that while the food addiction model reduced stigma; it did not eliminate it entirely.

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e food addiction group attributed signi cantly less blame to individuals with obesity than the behavioral model group (p <0.01). e control group attributed the least blame overall, but the di erence

between the control and food addiction groups was not statistically

signi cant.

Participants in the food addiction group perceived individuals with obesity as having less control over their eating behaviors compared to the behavioral model group (p <0.01). is perception was correlated with lower levels of blame attribution but was also associated with a higher likelihood of endorsing negative stereotypes about self-control [4].

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e ndings of this study suggest that framing eating behaviors as an addiction can reduce blame but may not be e ective in fully addressing weight stigma. e reduction in blame is a positive outcome, as it may encourage more empathetic attitudes towards individuals with obesity. However, the persistence of negative stereotypes, particularly those related to self-control, indicates that the food addiction model alone may not be su cient to combat stigma. e ndings indicate that the food addiction model can lead to a reduction in the personal blame attributed to individuals with obesity, which is a positive outcome in the context of stigma reduction [5]. is model's focus on biological and neurological factors can shi the narrative away from personal failure, potentially fostering more empathy and support. However, while the food addiction model reduces blame, it does not entirely eliminate stigma. Participants exposed to this model still reported higher levels of stigma compared to the control group. is persistent stigma suggests that although the food addiction model addresses some aspects of negative attitudes, it may not fully resolve the complex social and psychological dimensions of weight-related stigma. e food addiction model's emphasis on the addictive nature of certain foods might inadvertently reinforce stereotypes about lack of self-control, which could contribute to negative perceptions of individuals with e study also found that participants in the food addiction obesity [6]. group perceived individuals with obesity as having less control over their eating behaviors compared to those exposed to the behavioral is nding highlights the dual nature of the food addiction model model---it reduces blame but may simultaneously perpetuate certain stereotypes. e perception of diminished control can lead to a more deterministic view of obesity, which might limit the perceived ability of individuals to change their behaviors or seek e ective treatments.

e implications of these ndings for public health are signi cant. While the food addiction model o ers a promising approach to reducing blame and fostering empathy, it must be implemented carefully to avoid reinforcing negative stereotypes [7]. Public health messages should balance the acknowledgment of biological factors with recognition of the complexity of obesity, including the role of lifestyle choices, environmental in uences, and psychological factors.

is balanced approach can help mitigate stigma while promoting a comprehensive understanding of obesity. Public health campaigns should also consider integrating multiple explanatory models to address the multifaceted nature of obesity. By combining insights from the food addiction model with other perspectives, such as behavioral and environmental factors, public health messages can provide a more nuanced and supportive framework for understanding and addressing obesity. Additionally, e orts to reduce stigma should focus on broader societal changes, including improving access to healthcare, promoting healthy environments, and challenging harmful stereotypes and discrimination [8]. is study has several limitations that should be considered. e use of self-reported measures may introduce biases, and the sample may not fully represent the general population. Future research should include diverse populations and employ a variety of methodological approaches to validate these ndings. Longitudinal studies could also explore the long-term e ects of di erent explanatory models on stigma and behavior change. Additionally, research should investigate how di erent models of eating behaviors in uence actual treatment outcomes and behavioral changes. Understanding how these models a ect individuals' engagement with healthcare and their willingness to adopt healthy behaviors can provide further insights into their practical implications [9].

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implications for public health messaging. While the food addiction model may be useful in reducing personal blame, it should be presented carefully to avoid reinforcing harmful stereotypes. Public health campaigns may bene t from integrating multiple explanatory models that highlight the complexity of obesity without oversimplifying it as a matter of addiction or personal failure.

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e food addiction explanatory model has the potential to reduce blame and stigma associated with obesity, but it must be used with caution to avoid reinforcing negative stereotypes. A nuanced approach that incorporates multiple perspectives on eating behaviors may be more e ective in reducing weight-related stigma and improving public health outcomes. By continuing to explore and re ne approaches to stigma reduction, we can work towards more inclusive and e ective strategies for addressing the complex challenges associated with obesity.

A None

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