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Smoking behavior is associated with suicidality in individuals with psychosis and bipolar disorder: a systematic quantitative review and meta-analysis

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Smoking behavior has been well-established to be more prevalent in individuals with psychosis and bipolar disorder compared to the general population. However, reports about higher suicide attempt prevalence of smoking compared to non-smoking patients suggest that smoking behavior may contribute to identifying at-risk groups of patients in a comparatively easy manner. In the present systematic quantitative review, we provide meta-analytical evidence on the smoking and suicide attempt link in 22 studies ($k = 27$ independent samples; $N = 11,452$) of patients with psychosis and bipolar disorder. We observed a small meaningful effect of smoking on suicide attempts ($OR = 1.70$; 95% CI [1.48; 1.95]), indicating that smokers have 1.70 the odds of having reported a suicide attempt compared to non-smokers. This effect generalized across diagnosis type (i.e., schizophrenia vs. bipolar spectrum disorder), sample type (i.e., in- vs. outpatients), and participant sex. However, the observed summary effect appeared somewhat inflated due to publication process-related mechanisms, showing some evidence for effect-inflating publication bias and a decline effect. In all, the presently observed smoking and suicide attempt link appears to be small but meaningful and robust, thus suggesting smoking status represents a useful variable for the identification of at-risk populations for suicide attempts.

KEYWORDS

smoking, suicide, meta-analysis, psychosis, quantitative review, bipolar disorder

1 Introduction

It has been well-established that people who have been diagnosed with mental illnesses have elevated smoking rates (Hart et al., 2014). For instance, psychotic patients have been reported to show a smoking prevalence that is more than twice as large compared to that of the general population (Dickerson et al., 2013). However, individuals with psychosis are not only more likely to smoke but also to consume more, stronger, and often unfiltered cigarettes (and therefore more laden with nicotine and tar) (De Souza et al., 2012). Moreover, they have been reported to have more difficulty quitting than other individuals (Haukestein et al., 2002).

Several candidate theories have been proposed that may explain the smoking prevalence differences between healthy adults and individuals diagnosed with psychosis and bipolar disorder. Arguably, the most prominent theory is currently the self-medication theory (Leimu

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Jiyuan Zhang



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Studies and Issues in Smoking Behavior Salvatore V. Zagana, 1967 Studies and Issues in Smoking Behavior Salvatore V. Zagana, 1967 *Public Health Service Publication* , *Public Health Bibliography Series* United States. Public Health Service, 1951 **Behavioral and Biochemical Issues in Substance Abuse** Doris Clouet, Frank R George, Barry Stimmel, 2014-06-03 This excellent book is a concise yet thorough examination of the important and emerging field of the study of biological risk factors in drug abuse Historically drug abuse research has concentrated on the contributions of environmental and behavioral factors as the major influences on addiction The revelatory studies in this volume examine the genetic contributions to drug taking behavior through the use of animal models cellular experiments and human clinical studies Behavioral and Biochemical Issues in Substance Abuse provides for the first time in one volume up to date easily digested reviews of topics concerning biological and genetic factors in drug abuse Medical researchers in all areas of alcoholism and drug abuse researchers in pharmacology psychology psychiatry and neuroscience and clinicians interested in biological approaches to alcoholism and drug abuse problems will benefit greatly from this valuable resource Authoritative contributors clearly demonstrate the capability of genetic factors to modulate the reinforcing or rewarding effects of drugs thereby altering their addictive potential In addition to gaining comprehension of the biological factors affecting addiction a greater understanding of genetics related to drug abuse will enable future research to control biological factors leading to more accurate studies of behavioral and environmental influences on drug and alcohol abuse **NIDA Research Monograph** , 1976 Research Issues , 1975 **Bibliography on Smoking and Health** , 1968 **Research Issues** National Institute on Drug Abuse, 1974 Cognitive-Behavioral Interventions Philip C. Kendall, Steven D. Hollon, 2013-10-02 Cognitive Behavioral Interventions Theory Research and Procedures surveys a variety of areas to which cognitive behavioral strategies have been applied The various contributors represent some of the major innovators in the field Each has developed and systematically evaluated programs which apply sound empirically based procedures to cognitive and behavioral phenomena The opening chapter traces the short developmental history and describes the current professional environment of the cognitive behavioral movement The chapters that follow represent major contributions by the leading investigators across a number of areas of intervention Each chapter describes a summary of research in the respective area a description of the actual intervention procedures with supporting empirical data and a consideration of the theoretical foundations and potential implications associated with the intervention The chapter contents vary across three dimensions First the interventions range from those that focus on the acquisition of new capacities to those that deal with the control and modification of existing processes Second several chapters focus on adult populations several on child populations and some on both Finally whereas a number of the chapters deal with problems that have been areas of traditional clinical concern several others explore new and interesting applications for cognitive behavioral interventions

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