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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) (Le Bouteiller et al., 2012). Moreover, they have been reported to have more difficulty quitting than other individuals (Haugeton 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 (Leuru

Studies And Issues In Smoking Behavior

Tobias Bleicker



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Studies and Issues in Smoking Behavior Salvatore V. Zagona, 1967 **Public Health Service Publication**, **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. *Bibliography on Smoking and Health*, 1968 *Public Health Bibliography Series* United States. Public Health Service, 1951 *Research Issues*, 1975 **Research Issues** National Institute on Drug Abuse, 1974 **NIDA Research Monograph**, 1976 *Basic Issues in Biomedical and Behavioral Research*, 1976 United States. Congress. Senate. Committee on Labor and Public Welfare. Subcommittee on Health, 1976 **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

Health Services Reports United States. Health Services and Mental Health Administration,1973 *The Behavioral Sciences and Preventive Medicine Opportunities and Dilemmas* Robert L. Kane,1977 *Principles of Research in Behavioral Science* Bernard E. Whitley,Mary E. Kite,Heather L. Adams,2013 Intended for beginning graduate or advanced undergraduate students this book provides a comprehensive review of research methods used in psychology and related disciplines It covers topics that are often omitted in other texts including correlational and qualitative research and integrative literature reviews Basic principles are reviewed for those who need a refresher The focus is on conceptual issues statistics are kept to a minimum Featuring examples from all fields of psychology the book addresses laboratory and field research Chapters are written to be used independently so instructors can pick and choose those that fit their course needs Reorganized to parallel the steps of the research process tips on writing reports are also provided Each chapter features an outline key terms a summary and questions and exercises that integrate chapter topics and put theory into practice A glossary and an annotated list of readings are now included Extensively updated throughout the new edition features a new co author Mary Kite and New chapters on qualitative research and content analysis and another on integrative literature reviews including meta analysis critical techniques for today s research environment A new chapter on exploratory and confirmatory factor analysis that addresses the use of path analysis and structural equation modeling A new chapter on how to write a research report using APA style Examples from cross cultural and multi cultural research neuroscience cognitive and developmental psychology along with ones from social industrial and clinical psychology More on Internet research and studies Greatly expanded Part 3 on research designs with chapters on true experiments field research correlational and single case designs content analysis and survey and qualitative research A website with PowerPoint slides for each chapter a test bank with short answer and multiple choice questions additional teaching resources and the tables and figures from the book for Instructor s and chapter outlines suggested readings and links to related web sites for students Intended as a text for beginning graduate and or advanced undergraduate courses in research methods or experimental methods or design taught in psychology human development family studies education or other social and behavioral sciences a prerequisite of undergraduate statistics and a beginning research methods course is assumed **The Behavioral Sciences and Preventive Medicine** John E. Fogarty International Center for Advanced Study in the Health Sciences,1977 *The Role of the Media in Promoting and Reducing Tobacco Use* Ronald M. Davis,2008 *Progress in Behavior Modification* Michel Hersen,Richard M. Eisler,Peter M. Miller,2013-10-22 Progress in Behavior Modification Volume 3 is a multidisciplinary serial publication that encompasses the contributions of psychology psychiatry social work speech therapy education and rehabilitation This serial aims to meet the need for a review publication that undertakes to present yearly in depth evaluations that include a scholarly examination of theoretical underpinnings a careful survey of research findings and a

comparative analysis of existing techniques and methodologies The discussions center on a wide spectrum of child and adult disorders The present volume opens with a chapter on behavior modification and hypnosis This is followed by separate chapters on applications of behavior modification procedures in classroom settings smoking behavior modification and psychotherapy outcome research Subsequent chapters deal with the behavioral approach to teaching learning disabled children evaluation of animal analogues of behavioral treatment therapy for sexual dysfunction and research in the area of transfer of training of operant treatment effects with children **A Summary of the Proceedings** ,1968 **Preventing Tobacco Use Among Youth and Young Adults** United States. Public Health Service. Office of the Surgeon General,2012 This Surgeon General s report details the causes and the consequences of tobacco use among youth and young adults by focusing on the social environmental advertising and marketing influences that encourage youth and young adults to initiate and sustain tobacco use This is the first time tobacco data on young adults as a discrete population have been explored in detail The report also highlights successful strategies to prevent young people from using tobacco **Hearings, Reports and Prints of the Senate Committee on Labor and Public Welfare** United States. Congress. Senate. Committee on Labor and Public Welfare,1975

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