## Contents

### Part I  Overview

1  **History of Substance Abuse Research in the United States** ......................................................... 3  
   Jonathan B. VanGeest, Timothy P. Johnson, and Sonia A. Alemagno

2  **Transdisciplinary Research Perspective: Epidemiological Criminology as an Emerging Theoretical Framework for Substance Abuse Research** ................................................. 27  
   Jennifer M. Reingle Gonzalez, and Timothy A. Akers

### Part II  Quantitative Approaches

3  **Randomized Controlled Trials in Substance Abuse Treatment Research: Fundamental Aspects and New Developments in Random Assignment Strategies, Comparison/Control Conditions, and Design Characteristics** ........................................................................................................ 43  
   James A. Swartz

4  **Sampling Strategies for Substance Abuse Research** ................................................................. 65  
   Joseph Gfroerer, Arthur Hughes, and Jonaki Bose

5  **Common Statistical Methods for Primary and Secondary Analysis in Substance Abuse Research** ................................................................................................................................. 81  
   Adam King, Libo Li, and Yih-Ing Hser

6  **Longitudinal Methods in Substance Use Research** .............................................................. 113  
   Brent Teasdale and Jerreed Ivanich

### Part III  Qualitative and Mixed-Method Approaches

7  **Qualitative Methods in Substance Abuse Research** ........................................................... 129  
   Paul Draus

8  **Qualitative Data Analysis in Drug Research** ................................................................. 147  
   Henry H. Brownstein

9  **Using GIS for Substance Abuse Research and Intervention** ............................................ 161  
   Jacqueline W. Curtis and Andrew Curtis
10 All Mixed Up: Considerations in Blending Qualitative and Quantitative Components in Substance Abuse Research
Sheryl L. Chatfield and Jeffrey S. Hallam

Part IV Measurement Issues

11 Assessment of Substance Misuse
Timothy J. Grigsby, Steve Sussman, Chih-Ping Chou, and Susan L. Ames

12 Validity: Conceptual and Methodological Issues in Substance Abuse Research
Brian E. Perron, David Cordova, Christopher Salas-Wright, and Michael G. Vaughn

13 Using Surveys to Study Substance Use Behavior
Timothy P. Johnson and Jonathan B. VanGeest

14 The Use of Biological Measures in Social Research on Drug Misuse
Michael Fendrich, Timothy P. Johnson, and Jessica Becker

Part V Special Populations

15 Conducting Research on Adolescent Substance Abuse
Dianne L. Kerr and Willie H. Oglesby

16 LGBT Populations and Substance Abuse Research: An Overview
Dianne L. Kerr and Willie H. Oglesby

17 Conducting Substance Abuse Research: Incarcerated Populations
Sage Kim and Michael Puisis

Part VI Policy Research

18 Application: What Role Does Research Play in Shaping Substance Abuse Policy?
John T. Carnevale

19 Economic Evaluation of Substance Abuse and Prevention Programs
Willie H. Oglesby and Lauren Birmingham

20 Evaluation of Substance Abuse Prevention and Treatment Programs
Peggy Stephens, Zili Sloboda, and Deric Kenne

Index
Research Methods in the Study of Substance Abuse
VanGeest, J.B.; Johnson, T.P.; Alemagno, S.A. (Eds.)
2017, XIII, 450 p. 19 illus., 12 illus. in color., Hardcover
ISBN: 978-3-319-55978-0