

CONTENTS

List of Contributors	xxiii
Preface	xxvii
Acknowledgments	xxxv

PART I NATURE AND SCOPE OF GAMBLING STUDIES

CHAPTER 1

Situating Gambling Studies

Gerda Reith

Introduction	3
The Historical Context of Gambling	4
The Paradigm Shift	6
The Emergence of “Gambling Studies”	7
Research Domains	8
Interpretivist Approaches	8
Sociological, Anthropological, and Psychological Research	8
Positivist Approaches	10
Economic and Social Cost–Benefit Analyses	14
Biomedical Approaches	16
Clinical Psychological Research	17
Cognitive Psychological Research	19
Epidemiological Research and Public Health Perspectives	21
Conclusions: Current Trends and Future Directions	24

PART II MEASUREMENT ISSUES

CHAPTER 2

Population Surveys

Rachel A. Völberg

Introduction	33
Purposes of Population Surveys in Gambling Studies	34

Problem-Gambling Prevalence and Comorbidity	35
Sampling Issues in Population Surveys	36
Sample Size	36
Sampling Frame	37
Sampling Modality	39
Multimodal Sampling	43
Response Rates	44
Weighting Population Survey Samples	49
Constraints and Choices in Population Research	51

CHAPTER 3

Questionnaire Design: The Art of a Stylized Conversation

Marianna Töce-Gerstein and Dean R. Gerstein

The Interview Context	56
What Is an Interview?	56
Conceptual Context	57
Physical Context: Setting and Mode	58
Social Context	60
Privacy Effects	60
Response Bias	61
Social Desirability Bias	62
Nonresponse	63
Basic Communicative Principles	63
Relevance	64
Neutrality	64
Ambiguity	65
Language of Administration	65
Translating the Questionnaire	65
Using Interpreters	66
Minimizing Cognitive Effects	67
Recall Problems	67
Limited Grasp and Computability of Quantities	68
Scaling of Attitudes, Opinions, and Behaviors	69
Causality	69
Age-Graded Behavior: Special Considerations for Youth	70
Questionnaire Construction	71
Structuring the Questionnaire	71
Major Questions, Sections, and Section Order	72
Pathing Through the Interview	72

Question Flow and Context Effects	73
Item Response Frames	73
Reading Level	74
Pretesting	74
Informed Consent	76
Special Considerations for Gambling Research	77
Definition of Gambling	77
Gambling Participation	78
Attitudes Toward Gambling	78
Problem Gambling	79
Diagnosis of Pathological Gambling	79
Correlates of Problem Gambling	80
Problem Gambling Help and Treatment	81

CHAPTER 4

Experimental Methodologies in Gambling Studies

Sherry H. Stewart and Steven Jefferson

Basic Components of an Experimental Research Study	88
Internal and External Validity	89
Types of Experimental Designs	91
Group Experimental Designs	91
Control Groups	92
Randomization	93
Single-Case Experimental Designs	93
Withdrawal Designs	95
Multiple Baseline Design	97
Sample Experimental Methodologies	98
Behavioral Observation	98
Explicit Cognition	101
Implicit Cognition	102
Think Aloud	105
Reaction Time Tasks	105
Conclusions	107

CHAPTER 5

Qualitative Methodologies

Robert A. Stebbins

Grounded Theory and Exploration	112
Exploratory Concatenation	113

Confirmatory Qualitative Research	114
Validity and Reliability	115
Methods of Data Collection	117
Qualitative Research on Gambling Issues	120
Conclusions	122

CHAPTER 6

Longitudinal Studies of Gambling Behavior

Wendy S. Slutske

Introduction	128
Existing Longitudinal Studies of Gambling Behavior	129
Longitudinal Studies of Gambling Behavior Initiated During Preadolescence and Adolescence	129
Montreal, Canada (Vitaro and colleagues)	129
Minnesota (Winters and colleagues)	131
New York (Barnes and colleagues)	132
Quebec, Canada (Vitaro, Ladouceur, and Bujold)	132
Longitudinal Studies of Gambling Behavior Initiated During Late Adolescence and Early Adulthood	133
Missouri College Students (Slutske, Jackson, and Sher)	133
New York (Barnes and colleagues)	134
Dunedin, New Zealand (Slutske and colleagues)	134
Longitudinal Studies of Gambling Behavior Initiated During Early to Late Adulthood	135
New Zealand (Abbott, Williams, and Volberg)	135
U.S. Casino Employees (Shaffer and Hall)	135
Key Issues and Challenges in Longitudinal Gambling Research	136
Statistical Techniques for Modeling Stability and Change	136
Dealing with Missing Data	137
The Low Prevalence of Pathological Gambling Disorder	139
Important Questions and What We Know So Far	140
Temporal Resolution of Gambling Correlates: Establishing Causality?	140
The Stability of Gambling Behavior	142
The Course of Gambling Behavior and Gambling Problems	145
Sequential/Stage Theories of Gambling Involvement: Is There a “Gateway” to Problems?	146
Developmental Changes Versus Cohort or Period Effects on Levels of Gambling Involvement	148
“Natural Experiments” in Longitudinal Gambling Research	149
Summary of What We Don’t Know (Yet)	150

CHAPTER 7

Quantification and Dimensionalization of Gambling Behavior

Shawn R. Currie and David M. Casey

Historical Perspectives	156
Epidemiological Data on Gambling Expenditure, Frequency, Duration, and Type	157
Quantification of Other Addictive Behaviors	159
Importance of the Quantification of Gambling	160
Variations in Sources of Data	161
Relevant Quantitative Dimensions of Gambling Behaviors	163
Inputs	164
Participation Status	164
Types of Gambling	168
Frequency	168
Expenditure	169
Duration	170
Attitudes and Cognitions	170
Outputs	171
Financial	171
Legal	171
Social and Psychological Harms	172
Clinical Use of Quantitative Gambling Data	173
Conclusions	173

CHAPTER 8

A Review of Screening and Assessment Instruments for Problem and Pathological Gambling

Randy Stinchfield, Richard Govoni, and G. Ron Frisch

Introduction	180
Instruments	181
Gamblers Anonymous 20 Questions (GA-20)	181
South Oaks Gambling Screen (SOGS)	190
Massachusetts Gambling Screen (MAGS)	193
DSM-IV-MR (MR = Multiple Response)	193
Diagnostic Interview for Gambling Severity (DIGS)	194
Gambling Treatment Outcome Monitoring System (GAMTOMS)	195
National Opinion Research Center DSM-IV Screen for Gambling Problems (NODS)	196
Lie/Bet Questionnaire	198

Gambling Assessment Module (GAM)	199
Canadian Problem Gambling Index (CPGI)	200
Gambling Behavior Interview (GBI)	201
Clinical Global Impression Scale (CGI)	202
Pathological Gambling Adaptation of the Yale Brown Obsessive-Compulsive Scale (PG-YBOCS)	203
Gambling Symptom Assessment Scale (G-SAS)	204
Structured Clinical Interview for Pathological Gambling (SCI-PG)	204
Conclusions and Future Research Directions	205

PART III EMERGING GAMBLING STUDIES RESEARCH ISSUES

CHAPTER 9

The Role of Structural Characteristics in Gambling

Jonathan Parke and Mark Griffiths

Background	218
Payment Characteristics	223
Suspension of Judgment and Cashless Gaming	223
Smart Cards, Spending Limits, and Cashless Gaming	224
Maximum Bet Size and Bill Acceptors	224
Cash Versus Credit Display	225
Playability Characteristics	226
Feature Games and Other Specialist Play Features	226
Stop Buttons	227
Gamble Buttons	229
The Near Miss	230
The Psychology of Familiarity	231
Speed and Frequency Characteristics	231
Bet Frequency and Event Frequency	232
Event Duration	232
In-Running Betting	233
Payout Interval	233
Autoplay	234
Educational Characteristics	234
Clocks	235
Transparency of Expenditure and Statements	235
Warnings/Pop-Up Messages	235

Ambient Characteristics	236
Light and Color Effects	236
Sound Effects	236
General Sound	237
Verbal Interaction	238
Music	238
Reward Characteristics	239
Multiplier Potential and Betting Lines	239
Payout Ratios and Randomness	240
Jackpots	241
Reward Schedules and Reinforcers	242
Mandatory Cashouts	242
Issues Relating to Research and Measurement	243
Ecological Validity: Laboratory Versus Natural Setting	243
Experiments in the Natural Setting	244
Ethics in Gambling Experiments	245
Conclusions	245

CHAPTER 10

Situational Factors That Affect Gambling Behavior

Max W. Abbott

Introduction	251
Availability, Accessibility, and Exposure	252
Dimensions of Accessibility and Exposure	253
Availability and Participation	255
Studies Using Official Data	256
Surveys and Other Gambling Studies	257
Availability, Participation, and Problem Gambling	259
The Agent Gambling	259
Prevalence Studies	260
Replication Surveys	262
Prevalence Changes in Population Sectors	263
Other Exposure Concentrations	264
Prospective Studies	265
Other Location and Contextual Factors	266
Credit Cards and ATMs	268
Alcohol	269
Tobacco	270
Marketing and Advertising	271
Conclusion	272

CHAPTER 11

Individual Characteristics and Problem Gambling Behavior*Tony Toneatto and Linda Nguyen*

Introduction	280
Demographic Variables	280
Age	280
Gender	281
Socioeconomic Status	282
Marital Status	282
Early Childhood Experiences	283
Influence of Parental Gambling	283
Motivation to Gamble	284
Personality Factors	286
Arousal and Sensation Seeking	286
Sensation Seeking	286
Arousal	287
Impulsivity	288
Drive Reduction	289
Mood Regulation	289
Dissociation	290
Choice of Gambling Activity	290
Cognitive Variables	291
Illusion of Control	292
Illusory Correlation: Superstitious Beliefs	292
Interpretive Biases	293
Attributional Biases	293
The Gambler's Fallacy	294
Chasing	294
Illusory Control over Luck	294
Conclusion	295

CHAPTER 12

Comorbidity and Mental Illness*Nancy M. Petry and Jeremiah Weinstock*

Introduction	305
Current State of Knowledge of Comorbidities with Pathological Gambling	306
Substance Use Disorders	306
Mood Disorders	309
Anxiety Disorders	310
Other Disorders	311

Diagnostic Measurement Issues	311
Structured Instruments for Assessing Psychiatric Disorders	312
Assessment of Psychiatric Symptoms	315
Research Concerns and Summary	318

CHAPTER 13

Research and Measurement Issues in Gambling Studies: Etiological Models

Alex Blaszczynski and Lia Nower

Introduction	323
Overview	324
Etiological Models	325
Psychoanalytic and Psychodynamic	325
Public Health	327
Social Reward	329
Image	329
Social Validation	330
Behavioral Models	331
Cognitive Conceptualizations	333
Neurobiological, Genetic, and Biobehavioral	335
Integrated Models	337
General Theory of Addictions	337
Biopsychosocial	338
Pathways	338
Summary	339

CHAPTER 14

The Neurobiology of Pathological Gambling

Judson A. Brewer, Jon E. Grant, and Marc N. Potenza

Introduction	345
Conceptualization	346
Biochemistry	347
Serotonin	347
Dopamine	348
Norepinephrine	350
Monoamine Oxidase	351
Stress Pathways	352
Opioid System	353

Other Neurotransmitters	353
Neuroimaging	354
Structural Lesions and Decision Making	356
Genetics	357
Population Genetics	357
Molecular Genetics	358
Conclusions	359

CHAPTER 15

Treatment of Problem Gambling

David C. Hodgins and Alice Holub

Introduction	372
Major Approaches to Treatment	373
Psychodynamic Approaches	373
Theoretical Rationale and Therapeutic Model	373
Psychodynamic Efficacy Research	373
Unresolved Psychodynamic Issues	373
Gamblers Anonymous	374
Theoretical Rationale and Therapeutic Model	374
Gamblers Anonymous Efficacy Research	374
Unresolved Gamblers Anonymous Issues	375
Behavioral Therapies	375
Theoretical Rationale and Therapeutic Model	375
Behavioral Efficacy Research	377
Unresolved Behavioral Issues	378
Cognitive and Cognitive-Behavioral Therapies	379
Theoretical Rationale and Therapeutic Model	379
Cognitive-Behavioral Efficacy Research	380
Unresolved Cognitive-Behavioral Issues	382
Brief Treatments and Self-Directed Treatments	382
Theoretical Rationale and Therapeutic Model	382
Brief Treatment Efficacy Research	383
Unresolved Brief Treatment Issues	385
Pharmacological Treatments	385
Theoretical Rationale and Therapeutic Model	385
Pharmacological Efficacy Research	386
Unresolved Pharmacological Issues	387
Alternative Approaches or Adjuncts to Therapy	388

Eye Movement Desensitization and Reprocessing Therapy	388
Inpatient Programs	388
Family Approaches	389
Measurement/Evaluation Issues	390
Summary and Conclusions	391

CHAPTER 16

Prevention of Problem Gambling

Robert J. Williams, Beverly L. West, and Robert I. Simpson

Introduction	400
Educational Initiatives to Prevent Problem Gambling	401
Upstream Interventions	401
Information/Awareness Campaigns	401
More Sustained and Directed Educational Initiatives	404
Policy Initiatives to Prevent Problem Gambling	406
Restrictions on the General Availability of Gambling	406
Restricting the Number of Gambling Venues	406
Restricting More Harmful Types of Gambling	410
Limiting Gambling Opportunities to Gambling Venues	411
Restricting the Location of Gambling Venues	412
Limiting Gambling Venue Hours of Operation	413
Restrictions on Who Can Gamble	414
Prohibition on Youth Gambling	414
Restricting Gambling Venue Entry to Nonresidents	415
Casino Self-Exclusion Contracts	415
Restrictions or Alterations on How Gambling Is Provided	417
On-Site Intervention with At-Risk Gamblers	417
Problem Gambling Awareness Training for	
Employees of Gambling Venues	417
Automated Intervention for At-Risk Gamblers at Gambling Venues	418
On-Site Information/Counseling Centers	418
Modifying Parameters of Electronic Gambling Machines	420
Maximum Loss Limits	420
Restricting Access to Money	421
Restrictions on Concurrent Use of Alcohol and Tobacco	422
Restricting Advertising and Promotional Activities	423
Gambling Venue Design	424
Independence Between Gambling Regulator and Gambling Provider	424
Summary and Recommendations	425

CHAPTER 17

Adolescent Gambling: Current Knowledge, Myths, Assessment Strategies, and Public Policy Implications

Jeffrey L. Derevensky and Rina Gupta

Introduction	438
Adolescent Gambling Behavior	438
Adolescent Problem Gambling	439
Measurement Issues Related to Adolescent Problem Gambling	440
Instruments Used to Assess Youth Problem Gambling	440
Perspectives on the Adolescent Prevalence Data	441
Understanding Adolescent Problem Gambling Behavior	442
Is Pathological Gambling an Enduring Disorder?	443
Are All Forms of Gambling Equally Dangerous?	443
Correlates and Risk Factors Associated with Adolescent Problem Gambling	444
Game Features, Technological Advances, and Environmental Factors	447
Psychiatric and Mental Health Correlates	448
Protective Factors	448
Individual, Situational, and Environmental Factors	449
Treatment	450
Prevention Initiatives	453
Concluding Remarks	456

CHAPTER 18

Cross-Cultural Comparisons

Jan McMillen

Introduction	465
Understanding the Relationship Between Gambling Research and Culture: The Importance of Theory	467
Contending Theoretical Perspectives	468
Normative Theories	468
Behavioral Theories	471
Sociological and Comparative Perspectives	475
Problem Gambling: A Case Study of Research Cultures	476
Theoretical Reflections	480
The Way Forward	483

CHAPTER 19

Internet Gambling: Past, Present, and Future*Robert T. Wood and Robert J. Williams*

Introduction	492
History of Internet Gambling	492
Current Situation	494
Prevalence of Internet Gambling	495
The Comparative Legality of Internet Gambling	496
United Kingdom	496
Other European Countries	497
Australia	497
New Zealand	497
Canada	497
United States	498
Demographic Characteristics of Internet Gamblers	499
Game-Play Patterns	500
Why Do People Gamble on the Internet?	501
Problems with Internet Gambling	501
Unfair or Illegal Business Practices	501
Unfair or Illegal Player Practices	502
Internet Gambling by Prohibited Groups	502
Problem Gambling	503
Lack of Responsible Gambling Practices	505
Future of Internet Gambling	506
Researching Internet Gambling	508

CHAPTER 20

Social and Economic Impacts of Gambling*Earl L. Grinols*

Introduction	515
Social Harm	518
Economic Development	521
The Eleven Components of Economic Development	
Cost-Benefit Analysis	522
The Two-Sector Economy Revisited	531
Measurement	531
Summary and Conclusions	537

CHAPTER 21
Gambling and Crime

Colin S. Campbell and David Marshall

Introduction	542
Categorizing Gambling and Its Relationship(s) to Crime	544
Illegal Gambling	544
Crimes Correlated to Problem Gambling	545
Crimes Associated with Legal Gambling Expansion	546
Crimes Correlated to Gambling Venues	546
Crimes Distinct to Legal Gambling Operations	547
Graft and Corruption	548
Researching Illegal Gambling	548
Researching Crime Correlated to Problem Gambling	549
Researching the Impact of Gambling Facilities	550
Methodological Challenges of Researching Gambling and Crime	552
Data Problems	553
The Social Construction of "Official Statistics"	554
Demarcation of Gambling	557
Concluding Observations	558

PART IV
POLICY IMPLICATIONS OF GAMBLING
RESEARCH

CHAPTER 22

Values, Objectivity, and Bias in Gambling Research

Jennifer Borrell and Jacques Boulet

Introduction	568
Ontological and Epistemological Premises of Various Research Approaches	568
Positivist (Empiricist) Approaches	569
Interpretationist (Phenomenology) Approaches	570
Critical-Dialectical (Structural/Structuralist) Approaches	571
Critical-Participatory (Action-Oriented) Approaches	571
Postmodernist (Postrelativist) Approaches	572
Transpersonal-Ecological Approaches	573
The Use of the Various Approaches in Existing Gambling Research	574
Context and Corruption of Research: How Values Come to Influence Research Activities	575
Some Contemporary Systemic Influences on Research Processes	577

Organizational and Institutional Influences	577
Neo-Liberal Colonization of Universities and Research Institutions and the Primacy of Commercial Imperatives	577
Government/Industry/Research Institution Collusion in Protecting Positions of Privilege	578
Corruption of Science by Corporate Interests Within a Neo-Liberal Culture	579
Governmental Influences	579
Industry/Research-Institute Partnerships and Influence on Research Programs	580
Values in Gambling Research and Their Relationship with Ideological, Cultural, and Systemic Influences	581
Individualism	581
Individual Pathology and Marginalization of the Problem	582
Neo-Liberal Ideology, Individuals as Freely Choosing Consumers, and Utilitarianism	583
Hiding Behind Putative Neutrality and Objectivity	584
The Way Forward	585
Multilevel Framework	585
Understanding Harm Production	586
Researcher Embeddedness	587
Precautionary Principle	588

CHAPTER 23

Legalized Gambling: The Diffusion of a Morality Policy

Patrick A. Pierce and Donald E. Miller

Introduction	593
History of Legalized Gambling	594
Theoretical Issues	595
Data and Methodological Issues	596
The Diffusion of Lotteries and Casinos	598
The Diffusion of Innovations and Temporal Diffusion of Gambling Policies	598
The Diffusion of Innovations and External Diffusion of Gambling Policies	602
Lotteries	603
Casinos	605
Internal Diffusion of Gambling Policies	606
The Changing Symbolic Weight of the “Sinfulness of Gambling”	609
The Puzzle of Indian Casinos	609

The Future of Legalized Gambling	610
Future Research	612

CHAPTER 24

Gambling and Governance

Peter Collins

Introduction	617
A Free Market in Gambling?	618
Two Types of Arrangement for Regulating Gambling	621
Government Objectives in Relation to Gambling Policy	624
Vice	625
Crime and the Gambling Industry	627
Organized Crime and the Gambling Industry	628
Defrauding Customers	629
Money Laundering and Gambling	629
Increases in Gambling Opportunities and in General Levels of Crime	630
Problem Gambling	630
Gambling Opportunities and Problem Gambling Numbers	633
Economic Benefits	635
Taxation	636
Conclusion: Achieving Democratic Consensus About Gambling Policy	637
Index	641