Substance Abusing Latinos

Current Research on Epidemiology, Prevention, and Treatment

Mario R. De La Rosa Lori K. Holleran Shulamith Lala Ashenberg Straussner

Editors

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment

ere alle e al

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment has been co-published simultaneously as Journal of Social Work Practice in the Addictions, Volume 5, Numbers 1/2 2005.

Pre-publication REVIEWS, COMMENTARIES, EVALUATIONS . . . "Tof putting together a book that touches all of the key conceptual and methodological issues regarding Latinos and substance abuse, and have managed to assemble a contributing cast of scholars with national reputations in the process. THE CONTRIBUTIONS REFLECT THE LATEST THINKING IN THE FIELD AND ADDRESS MANY OF THE THORNY CHALLENGES CONFRONTING PRACTI-TIONERS AS WELL AS SCHOLARS."

Melvin Delgado, PhD

Professor of Social Work and Chair of Macro-Practice School of Social Work Graduate Institution Boston University



av av

More Pre-publication REVIEWS, COMMENTARIES, EVALUATIONS . . .

 $``A {\rm dvances \ in \ the \ design \ and} \\ {\rm delivery \ of \ effective \ sub-}$ stance abuse services for vulnerable populations require the breadth and depth of research provided in this important collection. The authors draw on a range of social science and prevention research methods, and each chapter offers well-considered implications for substance abuse interventions with specific Latino subgroups. This book's approach can serve as a model for others who aim to provide research that is easily transferred to practice with other groups vulnerable to addiction."

Lynn A. Warner, PhD, MSW Associate Professor SUNY-Albany "A STRONG RESOURCE for gaining insight. Those who want to advance the field will find this book a useful foundation."

William A. Vega, PhD Professor of Psychiatry Robert Wood Johnson Medical School University of Medicine and Dentistry of New Jersey





The Haworth Social Work Practice Press An Imprint of The Haworth Press, Inc.

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment has been co-published simultaneously as Journal of Social Work Practice in the Addictions, Volume 5, Numbers 1/2 2005.

Monographic Separates from the *Journal of Social Work Practice in the* Addictions

For additional information on these and other Haworth Press titles, including descriptions, tables of contents, reviews, and prices, use the QuickSearch catalog at http://www.HaworthPress.com.

- Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment, edited by Mario R. De La Rosa, PhD, Lori K. Holleran, PhD, Shulamith Lala Ashenberg Straussner, DSW, CAS (Vol. 5, No. 1/2, 2005). Examines the latest information, research, and recent advances in the prevention of substance abuse and HIV/AIDS in Latino populations.
- International Aspects of Social Work Practice in the Addictions, edited by Shulamith Lala Ashenberg Straussner, DSW, CAS, and Larry Harrison, MA, CQSW (Vol. 2, No. 3/4, 2002). "Provides valuable insight into one of the most significant changes in social life during the last fifty years and indicates some of the likely direction for changes in the first half of the twenty-first century." (Tony Clamp, DipCouns, DipSW, MA, Lecturer in Applied Social Studies, University of Durham, United Kingdom)
- *Neurobiology of Addictions: Implications for Clinical Practice*, edited by Richard T. Spence, PhD, MSSW, Diana M. DiNitto, PhD, and Shulamith Lala Ashenberg Straussner, DSW, CAS (Vol. 1, No. 3, 2001). *Presents the neurobiological theories of addiction in a psychosocial context and connects the theoretical information with practical applications.*

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment

Mario R. De La Rosa Lori K. Holleran Shulamith Lala Ashenberg Straussner Editors

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment has been co-published simultaneously as Journal of Social Work Practice in the Addictions, Volume 5, Numbers 1/2 2005.



The Haworth Social Work Practice Press An Imprint of The Haworth Press, Inc.



Published by

The Haworth Social Work Practice Press, 10 Alice Street, Binghamton, NY 13904-1580 USA

The Haworth Social Work Practice Press is an imprint of The Haworth Press, Inc., 10 Alice Street, Binghamton, NY 13904-1580 USA.

Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment has been co-published simultaneously as Journal of Social Work Practice in the Addictions, Volume 5, Numbers 1/2 2005.

© 2005 by The Haworth Press, Inc. All rights reserved. No part of this work may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, microfilm and recording, or by any information storage and retrieval system, without permission in writing from the publisher. Printed in the United States of America.

The development, preparation, and publication of this work has been undertaken with great care. However, the publisher, employees, editors, and agents of The Haworth Press and all imprints of The Haworth Press, Inc., including The Haworth Medical Press® and The Pharmaceutical Products Press®, are not responsible for any errors contained herein or for consequences that may ensue from use of materials or information contained in this work. Opinions expressed by the author(s) are not necessarily those of The Haworth Press, Inc.

Cover design by Lora Wiggins

Library of Congress Cataloging-in-Publication Data

Substance abusing Latinos: current research on epidemiology, prevention, and treatment/Mario R. De La Rosa, Lori K. Holleran, Shulamith Lala Ashenberg Straussner, editors.

p. cm.

"Co-published simultaneously as Journal of social work practice in the addictions, volume 5, numbers 1/2 2005." Includes bibliographical references and index.

ISBN-13: 978-07890-2882-2 (hc. : alk. paper) ISBN-10: 0-7890-2882-4 (hc. : alk. paper) ISBN-13: 978-07890-2883-9 (pbk. : alk. paper) ISBN-10: 0-7890-2883-2 (pbk. : alk. paper)

1. Hispanic Americans–Substance use. 2. Hispanic Americans–Substance use–Prevention. 3. Substance abuse–United States–Prevention. I. De La Rosa, Mario R. II. Holleran, Lori K. III. Straussner, Shulamith Lala Ashenberg. IV. Journal of social work practice in the addictions. HV5824.E85.S835 2005

362.29'089'68073-dc22

2004027877

Indexing, Abstracting & Website/Internet Coverage



This section provides you with a list of major indexing & abstracting services and other tools for bibliographic access. That is to say, each service began covering this periodical during the year noted in the right column. Most Websites which are listed below have indicated that they will either post, disseminate, compile, archive, cite or alert their own Website users with research-based content from this work. (This list is as current as the copyright date of this publication.)

Abstracting, Website/Indexing Coverage Year When Coverage Began			
•	Alcohol Research. For more information visit us at: http://www.voeding.tno.nl/alcohol-research >		
•	Business Source Corporate: coverage of nearly 3,350 quality magazines and journals; designed to meet the diverse information needs of corporations; EBSCO Publishing <http: bsourcecorp.asp="" corporate="" www.epnet.com=""></http:>		
•	CareData: the database supporting social care management and practice <http: caredata="" caredata.htm="" www.elsc.org.uk=""> 2001</http:>		
•	CINAHL (Cumulative Index to Nursing & Allied Health Literature), in print, EBSCO, and SilverPlatter, Data-Star, and PaperChase. (Support materials include Subject Heading List, Database Search Guide, and instructional video.) <http: www.cinahl.com=""></http:>		
•	Criminal Justice Abstracts		
•	e-psyche, LLC <http: www.e-psyche.net=""></http:>		
•	EBSCOhost Electronic Journals Service (EJS) <http: www.ejournals.ebsco.com=""></http:>		
•	Family & Society Studies Worldwide http://www.nisc.com 2000		
•	Family Index Database http://www.familyscholar.com >		
•	Family Violence & Sexual Assault Bulletin		
	(continued)		

•	Google <http: www.google.com=""></http:>	2004
•	Google Scholar <http: scholar.google.com=""></http:>	2004
•	Haworth Document Delivery Center	2001
•	Health & Psychosocial Instruments (HaPI) Database (available through online and as a CD-ROM from OVID Technologies)	2002
•	IBZ International Bibliography of Periodical Literature <http: www.saur.de=""></http:>	2001
•	Index to Periodical Articles Related to Law <http: www.law.utexas.edu=""></http:>	2001
•	Internationale Bibliographie der geistes- und sozialwissenschaftlichen Zeitschriftenliteratur See IBZ <http: www.saur.de=""></http:>	2001
•	National Criminal Justice Reference Service <http: www.ncjrs.org=""></http:>	2001
•	Peace Research Abstracts Journal	
•	Prevention Evaluation Research Registry for Youth (PERRY)	. 2001
•	Psychlogical Absracts (PsycINFO) <http: www.apa.org=""></http:>	. 2002
•	Sexual Diversity Studies: Gay, Lesbian, Bisexual, and Trangender Abstracts (Formerly Gay & Lesbian Abstracts) provides comprehensive & in-depth coverage of the world's GLBT literture compiled by NISC & published on the Internet & CD-ROM < http://www.nisc.com>	. 2001
•	Social Services Abstracts http://www.csa.com	. 2001
•	Social Work Abstracts <http: catalog="" swab.htm="" www.silverplatter.com=""></http:>	
•	SocIndex (EBSCO)	2003
•	Sociological Abstracts (SA) < http://www.csa.com>	. 2000
•	Violence and Abuse Abstract: A Review of Current Literature on Interpersonal Violence (VAA)	. 2003
	(continued)	

Special Bibliographic Notes related to special journal issues (separates) and indexing/abstracting:

- indexing/abstracting services in this list will also cover material in any "separate" that is co-published simultaneously with Haworth's special thematic journal issue or DocuSerial. Indexing/abstracting usually covers material at the article/chapter level.
- monographic co-editions are intended for either non-subscribers or libraries which intend to purchase a second copy for their circulating collections.
- monographic co-editions are reported to all jobbers/wholesalers/approval plans. The source journal is listed as the "series" to assist the prevention of duplicate purchasing in the same manner utilized for books-in-series.
- to facilitate user/access services all indexing/abstracting services are encouraged to utilize the co-indexing entry note indicated at the bottom of the first page of each article/chapter/contribution.
- this is intended to assist a library user of any reference tool (whether print, electronic, online, or CD-ROM) to locate the monographic version if the library has purchased this version but not a subscription to the source journal.
- individual articles/chapters in any Haworth publication are also available through the Haworth Document Delivery Service (HDDS).



Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment

CONTENTS

Preface	XV
Substance Abuse Among U.S. Latinos: A Review of the Literature Mario R. De La Rosa Lori K. Holleran Douglas Rugh Samuel A. MacMaster	1
Substance Abuse Among Puerto Rican and Dominican Gang Members in a Small City Setting Mario R. De La Rosa Douglas Rugh Patria Rojas	21
Childhood Sexual Abuse and Drug Use Among Low-Income Urban Puerto Rican Women <i>Mildred Vera</i> <i>Margarita Alegría</i> <i>Angela M. Pattatucci-Aragón</i> <i>Marisol Peña</i>	45

69

85

113

Acculturation Status and Substance Use Prevention
with Mexican and Mexican-American Youth
Flavio F. Marsiglia
Stephen Kulis
David A. Wagstaff
Elvira Elek
David Dran

Culturally Competent Intervention with Families of Latino Youth at Risk for Drug Abuse Dhira Crunkilton Juan J. Paz David P. Boyle

Psychiatric, Family, and Ethnicity-Related Factors That Can Impact Treatment Utilization Among Hispanic Substance	
Abusing Adolescents	133
Daniel A. Santisteban	
Frank Dillon	
Maite P. Mena	
Yannine Estrada	
Ellen L. Vaughan	

Factors Associated with Drug Treatment Entry Patterns Among Hispanic Women	
Injection Drug Users Seeking Treatment	157
Lena M. Lundgren Hortensia Amaro Linsey Ben-Ami	
SPECIAL TOPICS	
HIV/AIDS Prevention Practice with Latino/a Substance Abusers: An Interview with Jennifer Herrera <i>Lori K. Holleran</i>	175
ENDPAGE	
The Story of a Bi-Cultural, Latina Addict <i>Evelyn B</i> .	185
Index	191

ABOUT THE EDITORS

Mario B. De La Rosa, PhD, is Associate Professor in the School of Social Work in the College of Health and Urban Affairs at Florida International University. Before joining FIU Dr. De La Rosa was Visiting Research Associate Professor at Boston University's School of Social Work, a Health Science Administrator with the National Institute on Drug Abuse (NIDA), and a Visiting Scholar at Harvard University's David Rockefeller Center for Latin America Studies. Dr. De La Rosa has published more than 50 scientific manuscripts on the etiology of drug use with Latino populations and related consequences. He is currently the principal investigator of two National Institutes of Health (NIH) funded research center grants. Dr. De La Rosa is the recipient of the 1996 American Association for the Advancement of Science award for outstanding work in the substance abuse field, and the 1989 Outstanding Alumni Award from the Office of Minority Affairs, the Ohio State University.

Lori K. Holleran, PhD, ACSW, is Assistant Professor in the School of Social Work at the University of Texas at Austin. Before joining UT, Dr. Holleran did clinical work in the area of addictions, supervised adolescent drug counselors, and worked as Research Associate and Ethnographic Analyst on a variety of projects including the Drug Resistance Strategies (DRS) Project. Dr. Holleran has done research in early intervention alcohol prevention and culturally grounded prevention interventions with Mexican Americans. She is currently working on her K01 Mentored Research Scientist Development grant funded by the National Institute on Drug Abuse in the area of culturally grounded substance abuse prevention with high-risk youth in community settings.

Shulamith Lala Ashenberg Straussner, DSW, CEAP, BCD, CAS, is Professor at New York University School of Social Work. She was a Fulbright Senior Scholar to Israel in 2003; Distinguished Visiting Professor, Ben Gurion University, Israel, in January 2002; and Visiting Professor, Omsk State Pedagogical University in Siberia, Russia, Spring, 2000.

Dr. Straussner has numerous publications dealing with substance abuse. Among her thirteen books are: *Clinical Work with Substance Abusing Clients* (Guilford Press, 1994/2004); *International Aspects of Social Work Practice in the Addictions* (co-edited with L. Harrison, The Haworth Press, Inc., 2003); *Understanding Mass Violence: A Social Work Perspective* (co-edited with Norma Phillips, Allyn & Bacon, 2003); *The Handbook of Addiction Treatment for Women* (co-edited with Stephanie Brown, Jossey-Bass, 2002); *Ethnocultural Factors in Addictions Treatment* (Guilford Press, 2001); and *Gender and Addictions: Men and Women in Treatment* (co-edited with E. Zelvin, Jason Aronson Press, 1997). She is the founding editor of the *Journal of Social Work Practice in the Addictions* (The Haworth Press, Inc.)

Dr. Straussner is Regional Director, Project MAINSTREAM, a HRSA/CSAT/AMERSA sponsored national project to expend interdisciplinary AOD training within 17 different health and mental health professions. She has served on the National Center on Substance Abuse Treatment and is a founding board member of the New York State Institute for Professional Development in Addictions. Dr. Straussner is the past chair of NASW Section on Alcohol, Tobacco, and Other Drugs. She received the Social Worker of the Year Award from the NASW ATOD Section in 2000 and Award for Individual Distinction in Addictions Education and Training from NY State IDPA in 2003.

Dr. Straussner serves as a consultant to various hospitals and other organizations and lectures on a variety of topics throughout the U.S. and abroad. She is trained in psychoanalytic psychotherapy, family, and group therapy and has a private therapeutic and supervisory practice in New York City.



Preface

During the past fifteen years there has been a concerted effort to understand the growing problem of substance abuse among Latino populations in the United States, yet information about the substance abuse behaviors of Latinos and the effectiveness of culturally relevant drug treatment and prevention services is still limited. Even more limited is information on the factors associated with substance abuse behaviors among vulnerable Latino subpopulations such as gang members, homeless women, and juvenile delinquent Latinos. What role does membership in gangs have on the onset of substance abuse among Latino gang members? What impact does childhood sexual abuse have on adult drug use among low-income urban Puerto Rican women? What relationship do acculturation and healthy family role models have with substance abuse behaviors of Cuban juvenile offenders?

Information on the effects that cultural, familial, and environmental factors have in the provision of effective drug prevention and treatment services to vulnerable Latino populations is similarly limited. Numerous poignant questions loom in this regard. What impact would the possibility of choosing provision of services in English or Spanish have on the effectiveness of substance abuse prevention services among Latino adolescents? How do parenting skills and their level of acculturation to the values and beliefs system of the United States affect the utilization of outpatient drug treatment counseling by substance abusing Latino adolescents? How does lack of health insurance, prior mental health care history, and involvement with the criminal justice system affect drug using Latino women's utilization of methadone maintenance program?

The purpose of this volume is to augment the extant literature on the extent and nature of substance abuse among vulnerable Latino subpop-

[[]Haworth co-indexing entry note]: "Preface." De La Rosa, Mario, R., Lori K. Holleran, and Shulamith Lala Ashenberg Straussner. Co-published simultaneously in *Journal of Social Work Practice in the Addictions* (The Haworth Press, Inc.) Vol. 5, No.1/2, 2005, pp. xxiii-xxvi; and: *Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment* (ed: Mario R. De La Rosa, Lori K. Holleran, and Shulamith Lala Ashenberg Straussner) The Haworth Press, Inc., 2005, pp. xv-xviii. Single or multiple copies of this article are available for a fee from The Haworth Document Delivery Service [1-800-HAWORTH, 9:00 a.m. - 5:00 p.m. (EST). E-mail address: docdelivery@haworthpress.com].

ulations and to increase the knowledge base regarding the role that cultural, familial, and environmental factors have in the development of effective drug abuse interventions for these subpopulations. In this regard, the articles included in this special issue focus on providing information on the patterns of substance abuse among Latino gang members, Cuban juvenile offenders, and Puerto Rican homeless women. This volume also includes articles that discuss the role that acculturation factors, parenting skills, availability of insurance, and prior experience with mental health care and the justice system have on the provision of effective drug prevention and treatment services to vulnerable Latino populations.

The first article by De La Rosa, Holleran, Rugh, and MacMaster, provides a comprehensive review of research on the extent and nature of substance abuse among Latinos in the United States and the provision of culturally competent drug abuse prevention and treatment programs to Latino populations. The authors found that while significant progress has been made in understanding the drug using behaviors of Latinos and the importance of developing culturally competent substance abuse intervention programs, there are significant gaps in this area of research. The next article, by De La Rosa, Rugh, and Rojas, focuses on documenting the onset and progression of drug abuse in a cohort of Puerto Rican and Dominican gang members living in a small city. The findings from this research indicate, not surprisingly, that the onset of drug use among Latino gang members comes at a very early age and that progression to serious drug use occurs rapidly.

Vera, Alegría, Pattatucci-Aragón, and Peña's article examines the relationship between childhood sexual abuse and adult drug use among a cohort of drug using and non-using low-income urban Puerto Rican women. The results from this article provide further proof of the direct relationship between childhood sexual abuse and adult drug use found in other drug abusing populations. The article by Dévieux, Malow, Ergon-Pérez, Samuels, Rojas, Khushal, and Jean-Gilles examines the sexual and drug using behaviors of a much understudied vulnerable population: African American and Cuban American juvenile offenders. The results indicate that Cuban American adolescents showed higher levels of unprotected sex, higher levels of sex while using drugs, and higher levels of drug/alcohol use three and six months prior to confinement. These differences may be explained by multiple factors, including differences in acculturation levels among the Cuban

American adolescents, differences in health messages targeted at the two groups, and family mores and norms.

Culture, acculturation, and language are powerful issues in Latino/a research. The articles by Marsiglia, Kulis, Wagstaff, Elek, and Dran and by Crunkilton, Paz, and Boyle both focus on exploring the role that acculturation and Latino family beliefs and attitudes have in the effective delivery of prevention education services to Latino adolescents. The article by Marsiglia et al. addresses a major research gap in the literature: the role of language preference as a significant element in the provision of effective delivery of drug prevention services to Latino adolescents. This article's findings suggest that providing prevention education services in the language preferred by the Latino adolescents increases the effectiveness of the intervention in reducing or preventing their drug using behaviors. English speaking Latino adolescents showed the most favorable outcomes in reducing their drug using behaviors while Spanish speaking adolescents increased their negative attitudes toward the use of drugs. Similarly, Crunkilton, Paz, and Boyle's article also found that the incorporation of culturally appropriate language, beliefs, values, and principles improved the effectiveness of prevention programs providing substance abuse education to families. Both of these illustrated the importance of using a cultural approach in the provision of prevention education programs to Latino adolescents or their families.

Improving drug treatment utilization by drug using Latino adolescents and adult women is the purpose of the last two articles in this volume. Santisteban, Dillon, Mena, Estrada, and Vaughan focus on addressing the vexing problem of engaging Latino substance abusing parents and their families in drug treatment services. This study's findings indicate that Latino adolescents with lower levels of mental health disorders and parents with better parenting strategies were more likely to be engaged in drug treatment services than those who did not have such characteristics or conditions. Lundgren, Amaro, and Ben-Ami also examine drug treatment utilization by another vulnerable population: drug using Puerto Rican women. This article's findings suggest that lack of insurance, prior history of involvement with mental health services, and involvement with the justice system were the best predictors of drug treatment service utilization by Puerto Rican women.

In order to illuminate how the research topics and findings of this edition overlap with clients' and clinicians' experiences, this volume features two pieces that strike "where the rubber hits the road." A special topics interview by Holleran with Jennifer Herrera, Director of Pre-

xviii SUBSTANCE ABUSING LATINOS

vention Programs for AIDS Services of Austin, in Texas, elucidates issues related to Latino/a clients, such as poverty, HIV/AIDS, mental health concerns, substance abuse problems, gender issues, and barriers to getting help. Outreach and intervention strategies are shared including peer educators, the use of "Platicas," and two evidence-based interventions: VOICES/VOCES behavioral change group and Reducing AIDS Risk Activities (RARA). The volume concludes with an autobiographical story of a bi-cultural Latina alcoholic and drug addict in recovery.

> Mario R. De La Rosa Lori K. Holleran Shulamith Lala Ashenberg Straussner August, 2004

Substance Abuse Among U.S. Latinos: A Review of the Literature

Mario R. De La Rosa Lori K. Holleran Douglas Rugh Samuel A. MacMaster

SUMMARY. Latinos have recently become the largest minority in the United States. High fertility and high immigration rates suggest continued high rate of growth. Alcohol and illicit drug use within this population give reason for concern. Beginning in early adolescence, Latinos and Native Americans lead the nation in alcohol and illicit drug use. They also have a high need for alcohol and illicit drug treatment compared to Whites and African-Americans. Research concerning ethnic differences is reviewed in order to gain an understanding of the patterns and trajectories of substance use within the Latino community. Prevention and treatment interventions specific to Latinos are described, and gaps in the literature are noted. Finally, implications of the current re-

Mario R. De La Rosa, PhD, is Associate Professor, Florida International University, School of Social Work, 11200 SW 8th Street, Miami, FL 33199 (E-mail: mario.de_la_ rosa@fiu.edu). Lori K. Holleran, PhD, ACSW, is Assistant Professor, The University of Texas at Austin, School of Social Work, 1925 San Jacinto Boulevard, Austin, TX 78712-1203. Douglas Rugh, MSW, is Research Assistant and PhD candidate, Latino Drug Abuse Research Center, College of Health and Urban Affairs, Florida International University. Samuel A. MacMaster, PhD, is Assistant Professor, College of Social Work, University of Tennessee, 193 East Polk Avenue, Nashville, TN 37210.

[Haworth co-indexing entry note]: "Substance Abuse Among U.S. Latinos: A Review of the Literature." De La Rosa, Mario R. et al. Co-published simultaneously in *Journal of Social Work Practice in the Addictions* (The Haworth Press, Inc.) Vol. 5, No. 1/2, 2005, pp. 1-20; and: *Substance Abusing Latinos: Current Research on Epidemiology, Prevention, and Treatment* (ed: Mario R. De La Rosa, Lori K. Holleran, and Shulamith Lala Ashenberg Straussner) The Haworth Press, Inc., 2005, pp. 1-20. Single or multiple copies of this article are available for a fee from The Haworth Document Delivery Service [1-800-HAWORTH, 9:00 a.m. - 5:00 p.m. (EST). E-mail address: docdelivery@haworthpress.com].

http://www.haworthpress.com/web/JSWPA © 2005 by The Haworth Press, Inc. All rights reserved. Digital Object Identifier: 10.1300/J160v05n01_01

1