CNS SPECTRUMS®

THE INTERNATIONAL JOURNAL OF NEUROPSYCHIATRIC MEDICINE

EXPERT PANEL SUPPLEMENT

PHARMACOLOGIC AND THERAPEUTIC STRATEGIES IN TREATMENT-RESISTANT DEPRESSION

AUTHORS

John P. O'Reardon, MD Michael E. Thase, MD George I. Papakostas, MD

CME COURSE DIRECTOR

James C.-Y. Chou, MD

ABSTRACT

Treatment-resistant depression (TRD) is defined as the failure of an episode of major depression to respond fully to the adequate administration of a treatment that is known to be effective. TRD comprises many different clinical scenarios, including bipolar and unipolar depression, and known adequate treatments include psychotherapeutic and pharmacotherapeutic regimens. Studies have shown that ~50% of patients with major depressive disorder (MDD) receiving antidepressants experienced a clinical response (≥50% reduction in symptoms). When first-line antidepressant strategies fail to bring about response or remission of an episode of depression, clinicians may reevaluate the patient's diagnosis, ensure that any or all comorbidities have been diagnosed properly, and assess treatment adherence. It is common for clinicians to resort to second-, third-, and sometimes fourth-line treatment strategies to reach full remission of a depressive episode. These strategies may entail a within-class antidepressant switch, an out-of-class switch, or augmenting the first-line antidepressant. The major rationale for augmentation is that it builds upon whatever gains have been made with the first treatment trial. An adjunctive treatment may also target selected symptoms, such as a benzodiazepine or buspirone for anxiety symptoms, or modafinil for fatigue or lethargy. Augmentation of antidepressants with an atypical antipsychotic is a common polypharmacy strategy in the treatment of MDD. Some atypical antipsychotics possess affinity for the 5-HT_{1D} or 5-HT_{1D} receptor, both of which are of interest to treating depressive symptoms. There is an urgent need to continue to expand the repertoire of treatments available for MDD, including TRD. The long-term efficacy and safety data for atypical augmentation strategies must still be established, and these strategies must be compared to other augmentation or switching strategies.



This activity is jointly sponsored by the Mount Sinai School of Medicine and MBL Communications, Inc.



Copyright ©2009 MBL Communications, Inc. 333 Hudson Street, 7th floor, New York, NY 10013. Printed in the USA.

All rights reserved, including the right of reproduction, in whole or in part, in any form.

EXPERT PANEL SUPPLEMENT -

An expert panel review of clinical challenges in psychiatry

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the Mount Sinai School of Medicine and MBL Communications, Inc. The Mount Sinai School of

OUNT SINAI Medicine is accredited by the ACCME to provide MEDICINE continuing medical education for physicians.

Credit Designation

The Mount Sinai School of Medicine designates this educational activity for a maximum of 2 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Faculty Disclosure Policy Statement

It is the policy of the Mount Sinai School of Medicine to ensure objectivity, balance, independence, transparency, and scientific rigor in all CME-sponsored educational activities. All faculty participating in the planning or implementation of a sponsored activity are expected to disclose to the audience any relevant financial relationships and to assist in resolving any conflict of interest that may arise from the relationship. Presenters must also make a meaningful disclosure to the audience of their discussions of unlabeled or unapproved drugs or devices.

Statement of Need and Purpose

Although numerous clinical trials have demonstrated the clinical efficacy and safety of antidepressant drugs, their overall efficacy in MDD is, at best, modest. Studies have shown that ~50% of patients with MDD receiving antidepressants experienced a clinical response (≥50% reduction in symptoms). It is common for clinicians to resort to second-, third-, and sometimes fourth-line treatment strategies to reach full remission of a depressive episode. There are extensive data on switching or augmenting antidepressants for treatment-resistant episodes of depression. A careful evaluation of each patient's history, combined with the results of controlled clinical studies, can lead to improved outcomes and safety in clinical practice.

Target Audience

This activity is designed to meet the educational needs of psychiatrists.

Learning Objectives

- Define treatment-resistant depression (TRD) and how it relates to therapy, treatment response, and a spectrum of severity so that patients are accurately diagnosed with TRD.
- Assess the validity and accuracy of a patient's current diagnosis and treatment strategy before enacting a second- or third-line switch or augmentation strategy.
- List the relative advantages and disadvantages of polypharmacy—combination and augmentation strategies for TRD treatment.

Faculty Disclosures

John P. O'Reardon, MD, associate professor of psychiatry at the University of Pennsylvania, is a consultant to Bristol-Myers Squibb and Eli Lilly; and receives grant/ research support from CenRx BioPharma, Cyberonics, and Medtronic.

Michael E. Thase, MD, professor of psychiatry at the University of Pennsylvania, has served as a consultant to AstraZeneca, Bristol-Myers Squibb, Cephalon, Cyberonics, Eli Lilly, Forest, GlaxoSmithKline, Janssen, MedAvante, Neuronetics, Novartis, Organon, Sepracor, Shire, Supernus, and Wyeth; is on the speaker's bureau of AstraZeneca, Bristol-Myers Squibb, Cyberonics, Eli Lilly, GlaxoSmithKline, sanofi-aventis, Schering Plough, and Wyeth; and has received grant/research funding from Eli Lilly and Sepracor.

For the past or future 12 months (date disclosed: 2/13/2009), George I. Papakostas, MD, associate professor of psychiatry at Harvard Medical School, has served as a consultant/advisor to Eli Lilly, GlaxoSmithKline, Otsuka, Pierre Fabre Medicament, and Shire; has served on the speaker board for Bristol-Myers Squibb; has received research support from Bristol-Myers Squibb, Pamlab, Pfizer, Precision Human Biolaboratories, and the National Institute of Mental Health; and has received honoraria from Astra Zeneca, Bristol-Myers Squibb, Eli Lilly, GlaxoSmithKline, Jannsen-Cilag, Lundbeck, Otsuka, Pamlab, Pfizer, Pierre Fabre Medicament, and Servier. Dr. Papakostas discusses off-label investigational use of olanzapine, risperidone, ziprasidone, and quetiapine as adjunctive therapy for major depressive disorder.

James C.-Y. Chou, MD, associate professor of psychiatry at Mount Sinai School of Medicine, has received honoraria from AstraZeneca, Bristol-Myers-Squibb, Eli Lilly, GlaxoSmithKline, Janssen, and Pfizer.

Sanjay J. Mathew, MD, has served as an advisor/ consultant to AstraZeneca and Jazz.

Acknowledgment of Commercial Support

Funding for this activity has been provided by an educational grant from Eli Lilly and Company.

Activity Review Information

The activity content has been peer-reviewed by Sanjay J. Mathew, MD, Assistant Professor of Psychiatry at Mount Sinai School of Medicine. Review Date: February 19, 2009.

To Receive Credit for this Activity

Read this Expert Panel Supplement, reflect on the information presented, and complete the CME posttest and evaluation on pages 15 and 16. To obtain credit, you should score 70% or better. Early submission of this posttest is encouraged. Please submit this posttest by March 1, 2011 to be eligible for credit.

Release date: March 1, 2009 Termination date: March 31, 2011

The estimated time to complete this activity is 2 hours.

EDITORS -

EDITOR

Eric Hollander, MD Institute of Clinical Neuroscience New York, NY

INTERNATIONAL EDITOR

Joseph Zohar, MD Chaim Sheba Medical Center Tel-Hashomer, Israel

ASSOCIATE INTERNATIONAL EDITORS

EUROPE

Donatella Marazziti, MD University of Pisa Pisa, Italy

MID-ATLANTIC
Dan J. Stein, MD, PhD
University of Cape Town
Cape Town, South Africa

ASIA

Shigeto Yamawaki, MD, PhD Hiroshima University School of Medicine Hiroshima, Japan

FIELD EDITOR
Michael Trimble, MD, FRCP, FRPsych

COLUMNISTS

Uriel Halbriech, MD Stefano Pallanti, MD, PhD Thomas E. Schlaepfer, MD Stephen M. Stahl, MD, PhD Dan J. Stein, MD, PhD

CME COURSE DIRECTOR

James C.-Y. Chou, MD

SUPPLEMENT EDITOR

Joseph Zohar, MD

NEUROLOGISTS

Mitchell F. Brin, MD University of California, Irvine Irvine, CÁ

Jeffrey L. Cummings, MD University of California, Los Angeles Los Angeles, CA

— EDITORIAL ADVISORY BOARD

Jerome Engel, Jr., MD, PhD University of California, Los Angeles Los Angeles, CA

Mark S. George, MD Medical University of South Carolina Charleston, SC

Richard B. Lipton, MD Albert Einstein College of Medicine Bronx, NY

C. Warren Olanow, MD, FRCPC Mount Sinai School of Medicine New York, NY

Steven George Pavlakis, MD Maimonides Medical Center Brooklyn, NY

Stephen D. Silberstein, MD, FACP Thomas Jefferson University Philadelphia, PA

Michael Trimble, MD, FRCP, FRPsych National Hospital for Neurology and Neurosurgery London, United Kingdom

PSYCHIATRISTS

Dennis S. Charney, MD Mount Sinai School of Medicine New York, NY

Dwight L. Evans, MD University of Pennsylvania Philadelphia, PA

Siegfried Kasper, MD University of Vienna Vienna, Austria Martin B. Keller, MD

Brown Medical School Providence, RI

Lorrin M. Koran, MD Stanford University School of Medicine Stanford, CA

Yves Lecrubier, MD Hôpital de la Salpêtrière Paris, France

Herbert Y. Meltzer, MD Vanderbilt University Medical Center Nashville, TN

Stuart A. Montgomery, MD St. Mary's Hospital Medical School London, United Kingdom

Charles B. Nemeroff, MD, PhD Emory University School of Medicine Atlanta, GA

Humberto Nicolini, MD, PhD National Mexican Institute of Psychiatry Mexico City, Mexico

Stefano Pallanti, MD, PhD University of Florence Florence, Italy

Katharine Phillips, MD Brown Medical School Providence, RI

Harold A. Pincus, MD Columbia University New York, NY Scott L. Rauch, MD

Massachusetts General Hospital Charlestown, MA

Alan F. Schatzberg, MD Stanford University School of Medicine Stanford, CA

Thomas E. Schlaepfer, MD University of Bonn

Bonn, Germany Stephen M. Stahl, MD, PhD University of California, San Diego La Jolla, CA

Norman Sussman, MD New York University Medical School New York, NY

Michael E. Thase, MD University of Pennsylvania School of Medicine Philadelphia, PA Madhukar H. Trivedi, MD

University of Texas Southwestern Medical Center Dallas, TX

Karen Dineen Wagner, MD, PhD The University of Texas Medical Branch Galveston, TX

Herman G.M. Westenberg, MD University Hospital Utrecht Utrecht, The Netherlands Stuart C. Yudofsky, MD Baylor College of Medicine Houston, TX

PUBLICATION STAFF

CEO & PUBLISHER

Darren L. Brodeur

VP, MANAGING EDITOR

Christopher Naccar

VP, HUMAN RESOURCES Kimberly A. Brodeu

SENIOR GLOBAL

ACCOUNT DIRECTOR

Richard Ehrlich

GLOBAL ACCOUNT MANAGER

Evan Frieder

SENIOR EDITORS

Dena Croog José Ralat

ASSOCIATE EDITOR

ASSISTANT EDITOR

SENIOR ACQUISITIONS EDITOR

ACQUISITIONS EDITOR

Virginia Jackson

CME DEVELOPMENT MANAGERS

Annette Schwind Shelley Wong

ASSISTANT—CME ADMINISTRATION

Sonny Santana

EDITORIAL INTERN

Amanda Cuomo

ART DIRECTOR Derek Oscarson

GRAPHIC DESIGNER

Michael J. Vodilko

CHIEF FINANCIAL OFFICER John Spano

ACCOUNTING INTERN

Stephanie Spano

SALES & EVENT COORDINATOR

Kimberly Schneider

INFORMATION TECHNOLOGY

Clint Bagwell Consulting

CORPORATION COUNSEL

Lawrence Ross, Esq. Bressler, Amery, and Ross

CNS Spectrums (ISSN 1092-8529) is published monthly by MBL Communications, Inc., 333 Hudson Street, 7th Floor, New York, NY 10013.

SUBSCRIBERS: Send address changes to CNS Spectrums c/o MMS, Inc., 185 Hansen Court, Suite 110, Wood Dale, IL 60191-1150.

Opinions and views expressed by authors are their own and do not necessarily reflect the views of the publisher, MBL Communications, Inc., CNS Spectrums, LLC, or the editorial advisory board.

Copyright © 2009 by MBL Communications, Inc. All rights reserved. Printed in the United States.