

Psychopharmacology 2021

Thursday – Sunday • October 21-24, 2021

Virtual

WELCOME

On behalf of the entire Massachusetts General Hospital Department of Psychiatry, we are proud to welcome you to our *45th Annual Psychopharmacology Conference*.

Over the years this event has educated thousands of professionals on the latest advances in mental health. During each session, we ask our faculty to share their experience in both clinical research and patient care. This unique perspective as clinician-researchers helps mold standards of care in mental health. They review the latest data from clinical trials and new studies. They also highlight effective pharmacologic and behavioral interventions for an array of mental health conditions. Specific sessions cover anxiety, ADHD, depression, bipolar disorder, eating disorders, OCD, psychosis, PTSD, substance use, and much more.

Thank you for joining us this year.

TARGET AUDIENCE

The target audience for this event is Psychiatrists, Psychologists, General and Family Practice Physicians, Psychiatric Nurses, Physician Assistants, Nurse Practitioners and Social Workers.

EVALUATION FORMS/CME/CEU CERTIFICATES

Every participant needs to complete the activity evaluation online to claim CME/CEU credits for this course. Please refer to the **Evaluation and CME Information** document in this syllabus for more information. We strongly encourage you to complete the evaluation, even if you do not require a certificate. Your comments are important to us as we plan future programs. The link to claim credit is as follows:

www.mghcme.org/psychopharm2021

QUESTIONS

Opportunity for questions will be provided at the end of each module during the panel discussion. Please write your questions in the chat box on Zoom. Experience has shown that this method is preferable to that of spontaneous questions.

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CONTACT INFORMATION

For questions or comments, please contact MGH Psychiatry Academy member services at 866-644-7792 or mghcme@mgh.harvard.edu.

LEARNING OBJECTIVES

At the end of this educational activity, participants should be able to:

- Identify rational, evidence-based pharmacologic and non-pharmacologic therapies for patients with unipolar, bipolar, treatment-resistant, and post-partum depression.

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- Assess obstacles to maintenance of long-term recovery and the liability issues associated with psychopharmacology.
- Discuss diagnostic and evidenced-based treatment strategies for pediatric onset mood disorders.
- Compare the neurobiology and evidence-based treatment approaches to addiction, anxiety, schizophrenia, and mood disorders.
- Review the course and treatment of psychiatric disorders during pregnancy and menopause.
- Recognize psychosocial issues and evidence-based treatment modalities for eating and sleep disorders.
- Analyze drug interactions and the pharmacotherapy of adult ADHD and geriatric disorders.

*For a full list of learning objectives, please reference the conference website.

ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of McLean Hospital and Massachusetts General Hospital. McLean Hospital is accredited by the ACCME to provide continuing medical education for physicians.

3-Day Conference (Friday-Sunday):

The main conference is approved for *24.5 AMA PRA Category 1 Credit(s)*TM

Optional Thursday Seminars:

Clozapine Workshop - *2.00 AMA PRA Category 1 Credits*TM

Law and Psychiatry Seminar - *4.00 AMA PRA Category 1 Credits*TM

Psychosomatic Medicine/Consultation-Liaison Psychiatry - *4.00 AMA PRA Category 1 Credits*TM

The Neuroscience Revolution: How will it Affect Patient Care? - *4.00 AMA PRA Category 1 Credits*TM

Full Conference Attendance

30.50 AMA PRA Category 1 CreditTM

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of McLean Hospital and Massachusetts General Hospital. McLean Hospital is accredited by the ACCME to provide continuing medical education for physicians.

McLean Hospital designates this live activity for a maximum of **30.50 AMA PRA Category 1 Credit**TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

PSYCHOLOGISTS

The Massachusetts General Hospital Department of Psychiatry is approved by the American Psychological Association to sponsor continuing education (CE) for psychologists. The Massachusetts General Hospital Department of Psychiatry maintains responsibility for this program and its content. This offering meets the criteria for **30.50** Continuing Education (CE) credits for psychologists.

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REGISTERED NURSES

This program meets the requirements of the Massachusetts Board of Registration in Nursing (244 CMR 5.00) for **30.50** contact hours of nursing continuing education credit. Advance practice nurses, please note: Educational activities which meet the requirements of the ACCME (such as this activity) count towards 50% of the nursing requirement for ANCC accreditation.

SOCIAL WORKERS

The Collaborative of NASW, Boston College, and Simmons College Schools of Social Work authorizes social work continuing education credits for courses, workshops, and educational programs that meet the criteria outlined in 258 CMR of the Massachusetts Board of Registration of Social Workers.

This program has been approved for **30.50** Social Work Continuing Education hours for relicensure, in accordance with 258 CMR. Collaborative of NASW and the Boston College and Simmons Schools of Social Work Authorization Number D90436-1.

Other CE Licenses: Other Providers can claim a Participation Certificate upon successful completion of this course. Participation Certificates will specify the title, location, type of activity, date of activity, and number of *AMA PRA Category 1 Credits*[™] associated with the activity. Providers should check with their regulatory agencies to determine ways in which *AMA PRA Category 1 Credits*[™] may or may not fulfill continuing education requirements. Providers should also consider saving copies of brochures, agenda, and other supporting documents.

AGENDA

THURSDAY, OCTOBER 21, 2021

- | | |
|---------------|---|
| 1:00 – 3:00PM | Clozapine Workshop
<i>THIS IS A TICKETED EVENT</i> |
| 4:00 – 8:00PM | Law and Psychiatry**
<i>THIS IS A TICKETED EVENT</i> |
| 4:00 – 8:00PM | Psychosomatic Medicine/ Consultation-Liaison Psychiatry
<i>THIS IS A TICKETED EVENT</i> |
| 4:00 – 8:00PM | The Neuroscience Revolution: How will it Affect Patient Care?
<i>THIS IS A TICKETED EVENT</i> |

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FRIDAY, OCTOBER 22, 2021

8:00 – 8:10AM **Welcoming Remarks & Introduction**
Maurizio Fava, MD & Jerrold Rosenbaum, MD

MODULE TOPIC – MOOD DISORDERS

8:10 – 8:55AM **Bipolar Depression**
Andrew A. Nierenberg, MD

8:55 – 9:40AM **Bipolar Long-Term Management**
Roy H. Perlis, MD, MSc

9:40 – 9:55AM **Break**

9:55 – 10:40AM **Treatment Resistant Depression**
Maurizio Fava, MD

10:40 – 11:20 AM **Panel Discussion**
Moderator: Jerrold Rosenbaum, MD
Panelists: Andrew A. Nierenberg, MD, Roy H. Perlis, MD, MSc, Maurizio Fava, MD

11:20 – 12:20PM **Lunch Break**

MODULE TOPIC – ANXIETY/PTSD

12:20 – 1:05PM **PTSD**
Eric Bui, MD, PhD

1:05 – 1:50PM **Anxiety Disorders and Treatments**
Jerrold Rosenbaum, MD

1:50 – 2:30PM **Panel Discussion**
Moderator: Lee Cohen, MD
Panelists: Eric Bui, MD, PhD, Jerrold Rosenbaum, MD, Franklin King, MD

2:30 – 2:45PM **Break**

MODULE TOPIC – WOMEN'S HEALTH

2:45 – 3:30PM **Course and Treatment of Mood and Anxiety Disorders During Pregnancy**

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Lee S. Cohen, MD

3:30 – 4:15PM

Postpartum Mood Disorders

Marlene P. Freeman, MD

4:15 – 4:55PM

Panel Discussion

Moderator: David H. Rubin, MD

Panelists: Lee S. Cohen, MD, & Marlene P. Freeman, MD

4:55 – 5:55 PM

Friday Evening Seminars:

All Friday and Saturday evening seminars will be pre-recorded to allow all attendees to access each session (please pick 2).

Natural Medications for Psychiatric Disorders

David Mischoulon, MD, PhD

Suicide

Theodore A. Stern, MD

The Neurobiology of Addiction

Jodi Gilman, PhD

Psychopharmacology of Sleep Disorders

John W. Winkelman, MD, PhD

The Neurobiology of Mood and Psychotic Disorders

Jacqueline Clauss, MD, PhD

Exercise Interventions to Augment Psychopharmacology

Michael W. Otto, PhD

Stimulation and/or Surgical Approaches to Psychiatric Illness

Joan Camprodon, MD, PhD

Psychopharmacology of Autism

Chris McDougale, MD

5:55PM

Adjourn

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SATURDAY, OCTOBER 23, 2021

8:00 – 8:10 AM **Welcoming Remarks & Introduction**
David H. Rubin, MD

MODULE TOPIC – PSYCHOSIS

8:10 – 8:55AM **First-Episode Psychosis and Schizophrenia**
Oliver Freudenreich, MD, FACLP

8:55 – 9:40AM **Management of Side-Effects of Antipsychotics**
Oliver Freudenreich, MD, FACLP

9:40 – 9:55AM **Break**

MODULE TOPIC – KETAMINE & ESKETAMINE

9:55 – 10:40AM **Ketamine and Esketamine: From Research to Clinical Practice**
Cristina Cusin, MD

10:40 – 11:20AM **Panel Discussion**
Moderator: David H. Rubin, MD
Panelists: Oliver Freudenreich, MD, FACLP & Cristina Cusin, MD

11:20 – 12:20PM **Lunch Break**

MODULE TOPIC – NEW THERAPIES: WHAT IS ON THE HORIZON?

12:20 – 1:05PM **Psychedelic Medicine**
Franklin King, MD

1:05 – 1:50PM **New Treatments for Schizophrenia**
Oliver Freudenreich, MD, FACLP

1:50 – 2:05PM **Break**

2:05 – 2:50PM **New Treatments for Mood Disorders**
Michael E. Henry, MD & Joan Camprodon, MD, PhD

2:50 – 3:35PM **What is New in Addiction?**

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John F. Kelly, PhD

3:35 – 4:15PM

Panel Discussion

Moderator: David H. Rubin, MD

Panelists: Michael E. Henry, MD, John F. Kelly, PhD, Joan Camprodon, MD, PhD

4:15 – 5:15PM

Saturday Evening Seminars:

All Friday and Saturday evening seminars will be pre-recorded to allow all attendees to access each session (please pick 2).

Violence Risk Assessment in Clinical Practice**

Ronald Schouten, MD, JD, Lieutenant Frederick Cabral

Geriatrics

Olivia Okereke, MD

Traumatic Brain Injury: A Neuropsychiatric Perspective

Kaloyan S. Tanev, MD

Illuminating the Black Box: Antidepressants, Youth and Suicide

Jefferson Prince, MD

PMDD and Depression During the Menopausal Transition:

New Insights

Laura Fagioli Petrillo, EdM, MD

5:15PM

Adjourn

SUNDAY, OCTOBER 24, 2021

7:50- 8:00 AM

Welcoming Remarks & Introduction

David H. Rubin, MD

MODULE TOPIC – ADDICTION

8:00 – 8:45AM

Alcohol and Opiates

Vinod Rao, MD, PhD

8:45 – 9:30AM

Tobacco and Cocaine

Kristina Schnitzer, MD

9:30 – 10:10AM

Panel Discussion

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Moderator: David H. Rubin, MD

Panelists: Kristina Schnitzer, MD, Vinod Rao, MD, PhD

10:10 – 10:25AM **Break**

MODULE TOPIC – OCD

10:25 – 11:10AM **OCD**
Michael A. Jenike, MD

11:10 – 12:05PM **Obsessive-Compulsive Related Disorders**
Lisa M. Zakhary, MD, PhD

12:05 – 12:50PM **Cognitive Behavioral Therapy**
Sabine Wilhelm, PhD

12:50 – 1:30PM **Panel Discussion**
Moderator: Michael A. Jenike, MD
Panelists: Lisa M. Zakhary, MD, PhD, Sabine Wilhelm, PhD

1:30 – 2:30PM **Lunch Break**

MODULE TOPIC – ACROSS THE LIFESPAN

2:30 – 3:15PM **Pediatric Bipolar Disorder and Mood Disorders**
Janet Wozniak, MD

3:15 – 4:00PM **ADHD**
Joseph Biederman, MD

4:00 – 4:45PM **Drug Interactions**
Jonathan E. Alpert, MD, PhD

4:45 – 5:25PM **Panel Discussion**
Moderator: Joseph Biederman, MD
Panelists: Jonathan E. Alpert, MD, Janet Wozniak, MD

5:25PM **Adjourn**

****Session eligible for Risk Management Credit**

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FACULTY

PLANNERS & COURSE DIRECTORS

Maurizio Fava, MD (Course Director)

Psychiatrist-in-Chief, Department of Psychiatry
Director, Division of Clinical Research of the MGH Research Institute
Executive Director, Clinical Trials Network & Institute (CTNI)
Massachusetts General Hospital
Associate Dean for Clinical & Translational Research
Slater Family Professor of Psychiatry
Harvard Medical School

Jerrold F. Rosenbaum, MD (Course Director)

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Stanley Cobb Professor of Psychiatry
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Jane Pimental, MPH

Managing Director
Massachusetts General Hospital Psychiatry Academy

David H. Rubin, MD (Reviewer)

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Massachusetts General Hospital and McLean Hospital
Director, Postgraduate Medical Education, Department of Psychiatry
Executive Director, Massachusetts General Hospital Psychiatry Academy
Massachusetts General Hospital

Susan Sprich, PhD (Psychologist Reviewer)

Director, Postgraduate Psychology Education
Director, Cognitive Behavioral Therapy Program
Massachusetts General Hospital
Assistant Professor of Psychology
Harvard Medical School

SPEAKERS

Jonathan E. Alpert, MD, PhD

Dorothy and Marty Silverman University Professor and Chair

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Department of Psychiatry and Behavioral Science
Professor of Psychiatry, Neuroscience and Pediatrics
Psychiatrist-in-Chief
Montefiore Medical Center
Albert Einstein College of Medicine

Tracy A. Barbour, MD

Medical Director
Transcranial Magnetic Stimulation, Clinical Service
Massachusetts General Hospital

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Sosland Family Professor of Psychology and of Neuroscience
Harvard University and Harvard Medical School
Director, Psychiatric Neuroimaging Research, Massachusetts General Hospital

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Chief, Clinical and Research Programs in Pediatric
Psychopharmacology and Adult ADHD
Director, Bressler Program for Autism Spectrum Disorder
Massachusetts General Hospital
Professor of Psychiatry
Harvard Medical School

T. H. Eric Bui, MD, PhD

Assistant Professor of Psychiatry, Harvard Medical School
CATSD - Massachusetts General Hospital
Board of Directors, International Society for Traumatic Stress Studies
Associate Editor, European Journal of Psychotraumatology

Lieutenant Frederick Cabral

Cambridge Police Department
Family & Social Justice Section

Joan Camprodon, MD, MPH, PhD

Chief, Division of Neuropsychiatry
Director, Laboratory for Neuropsychiatry & Neuromodulation
Director, Transcranial Magnetic Stimulation (TMS) clinical service
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Assistant Professor of Psychiatry, Harvard Medical School

Christopher M. Celano, MD

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Psychiatrist, Massachusetts General Hospital
Assistant Professor, Harvard Medical School

Jacqueline Clauss, MD, PhD

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Clinical and Post-Doctoral Fellow, Division of Child and Adolescent Psychiatry, Department of Psychiatry, Massachusetts General Hospital
Clinical Fellow, Division of Child and Adolescent Psychiatry, McLean Hospital

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Assistant Professor
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Assistant Professor of Psychiatry at Harvard Medical School

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Slater Family Professor of Psychiatry
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Associate Professor of Psychiatry
Harvard Medical School

Jodi Gilman, PhD

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Associate Professor, Harvard Medical School
Center for Addiction Medicine
Massachusetts General Hospital

Michael E. Henry, MD

Medical Director, Bipolar Clinic and Research Program
Director, Somatic Therapy
Massachusetts General Hospital

Michael A. Jenike, MD

Founder, OCD Clinic, Massachusetts General Hospital
Founder, Massachusetts General Hospital/McLean Hospital OCD Institute
Professor of Psychiatry, Harvard Medical School

John F. Kelly, PhD, ABPP

Founder and Director, Recovery Research Institute
Program Director, Addiction Recovery Management Service (ARMS)
Associate Director, Center for Addiction Medicine
Massachusetts General Hospital
Elizabeth R. Spallin Professor of Psychiatry in Addiction Medicine, Harvard Medical School

Franklin King IV, MD

Attending Psychiatrist and Instructor in Psychiatry
Massachusetts General Hospital & Harvard Medical School

Matthew Lahaie, MD, JD

Associate Director, Harvard MGH Forensic Psychiatry Fellowship
Medical Director, MGH Children and the Law Program
Staff Psychiatrist, MGH Law & Psychiatry Service
Staff Psychiatrist, MGH Acute Psychiatry Service
Assistant in Psychiatry, MGH
Instructor in Psychiatry, Harvard Medical School

Christopher J. McDougle, MD

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Massachusetts General Hospital and
MassGeneral Hospital for Children
Nancy Lurie Marks Professor of Psychiatry
Harvard Medical School

David Mischoulon, MD, PhD

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Massachusetts General Hospital
Joyce R. Tedlow Professor of Psychiatry
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Amy Newhouse, MD

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Internist, Psychiatrist, Neuropsychiatrist
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Instructor, Department of Psychiatry, Harvard Medical School

Andrew A. Nierenberg, MD

Thomas P. Hackett, MD, Endowed Chair in Psychiatry at MGH
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Co-Director, Center for Clinical Research Education, Division of Clinical Research
Massachusetts General Hospital
Professor of Psychiatry, Harvard Medical School

Olivia I. Okereke, MD, MS

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Harvard Medical School
Associate Professor in the Department of Epidemiology,
Harvard T.H. Chan School of Public Health
Director, Geriatric Psychiatry
Department of Psychiatry,
Massachusetts General Hospital and Harvard Medical School

Michael W. Otto, PhD

Professor, Department of Psychological and Brain Sciences
Boston University

Roy H. Perlis, MD, MSc

Director, Center for Quantitative Health
Division of Clinical Research and Center for Genomic Medicine
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Laura Fagioli Petrillo, MD

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Mental Health
Massachusetts General Hospital

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Director, Child Psychiatry Salem Hospital
Medical Director, Inpatient Pediatric Psychiatry, Epstein Center for Behavioral Health
Medical Co-Director Eastern Hub, Massachusetts Child Psychiatry Access Project

Vinod Rao, MD, PhD

Associate Medical Director, West End Clinic
Psychiatrist, Massachusetts General Hospital
Physician Informaticist, Massachusetts General Hospital

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Instructor, Harvard Medical School

Joshua L. Roffman, MD

Co-Director, Mass General Neuroscience
Co-Director, Division of Psychiatric Neuroimaging, MGH
Director of Research, MGH Schizophrenia Clinical and Research Program
Associate Professor of Psychiatry, Harvard Medical School

Jerrold F. Rosenbaum, MD

Psychiatrist-in-Chief, Emeritus
Director, Center for Anxiety and Traumatic Stress Disorders
Massachusetts General Hospital
Stanley Cobb Professor of Psychiatry
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David H. Rubin, MD

Director, Child and Adolescent Psychiatry Residency Training
Massachusetts General Hospital and McLean Hospital
Director, Postgraduate Medical Education,
Department of Psychiatry
Executive Director, Massachusetts General Hospital
Psychiatry Academy
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Kristina Schnitzer, MD

Psychiatrist, Schizophrenia Clinical and Research Program, MGH
K12 Scholar - Center for Addiction Medicine, MGH
Instructor, Harvard Medical School

Ronald Schouten, MD, JD

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Theodore A. Stern, MD

Chief Emeritus, Avery D. Weisman Psychiatry Consultation Service,
Director, Thomas P. Hackett Center for Scholarship in
Psychosomatic Medicine,
Director, Office for Clinical Careers,
Massachusetts General Hospital;
Ned H. Cassem Professor of Psychiatry in the field of
Psychosomatic Medicine/Consultation,
Harvard Medical School;
Editor-in-Chief, Psychosomatics

Kaloyan S. Tanev, MD

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Director of Clinical Neuropsychiatry Research
Medical Director, Home Base Program Outpatient Clinic
Massachusetts General Hospital
Assistant Professor of Psychiatry
Harvard Medical School

Sabine Wilhelm, PhD

Chief of Psychology, Massachusetts General Hospital
Director, Obsessive-Compulsive and Related Disorders Program
Massachusetts General Hospital and Harvard Medical School
Professor of Psychology, Harvard Medical School

John W. Winkelman, MD, PhD

Chief, Sleep Disorders Clinical Research Program
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Professor of Psychiatry
Harvard Medical School

Janet Wozniak, MD

Chair, Quality and Safety, Department of Psychiatry
Director, Child and Adolescent Psychiatry Outpatient Service
Director, Pediatric Bipolar Disorder Clinical and Research Program
Massachusetts General Hospital
Associate Professor of Psychiatry
Harvard Medical School

Lisa M. Zakhary, MD, PhD

Medical Director, OCD and Related Disorders Program
Director of Psychopharmacology, Excoriation Clinic and Research Unit
Massachusetts General Hospital

FACULTY DISCLOSURE STATEMENTS

In accord with the disclosure policy of McLean Hospital as well as guidelines set forth by the Accreditation Council on Continuing Medical Education, all people in control of educational content, including speakers, course directors, planners, and reviewers, have been asked to disclose all relevant financial relationships with commercial interests of both themselves and their spouses/partners over the past 12 months, as defined below:

Commercial Interest

The ACCME defines a “commercial interest” as any entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients. The ACCME does not consider providers of clinical service directly to patients to be commercial interests. For more information, visit www.accme.org.

Financial relationships

Financial relationships are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest,

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Randy Buckner, MD	Alkermes	Speaker Fee
Eric Bui, MD, PhD	Springer Wolters Kluwer Taylor & Francis Cerevel Therapeutics, LLC	Editor, Royalties Author, Royalties Editor in Chief, Contribution Consult Fees
Joan Camprodon, MD, PhD, MPH	Apex Neuroscience, Hyka Therapeutics Neuronetics	Stock, Scientific Advisor Consult Fee
Christopher Celano, MD	Sunovion Pharmaceuticals	Honorarium (Lecture on a topic unrelated to this lecture)
Lee S. Cohen, PhD	National Pregnancy Registry for Atypical Antipsychotics, Alkermes Biopharmaceuticals; Forest/Actavis Pharmaceuticals; Otsuka Pharmaceuticals; Sunovion Pharmaceuticals, Inc.; Teva Pharmaceuticals Brain & Behavior Research Foundation; JayMac Pharmaceuticals; National Institute on Aging; National Institutes of Health; SAGE Therapeutics JDS therapeutics, LLC, Alkermes Biopharmaceuticals; Praxis Precision Medicines, Inc.	Research Support/ PI Other Research Support, PI/Co-investigator Advisory/Consulting (through MGH Clinical Trials Network Initiative)

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<p>Cristina Cusin, MD</p>	<p>Alkermes Shenox Pharmaceuticals, LLC Perception Neuroscience Clexio Springer</p>	<p>Advisor (Consulting Fee) Research Grant Support Advisor (Consult Fee) Research Grant/Clinical Trial Book (Royalties)</p>
<p>A. Eden Evins, MD, MPH</p>	<p>Charles River Analytics Brain Solutions LLP Pfizer</p>	<p>Consultant Inventor (Founder of STTR) Senior Author (Editorial Support)</p>
<p>Maurizio Fava, MD</p>	<p>Abbott Laboratories; Acadia Pharmaceuticals; Alkermes, Inc.; American Cyanamid; Aspect Medical Systems; AstraZeneca; Avanir Pharmaceuticals; AXSOME Therapeutics; Biohaven; BioResearch; BrainCells Inc.; Bristol-Myers Squibb; CeNeRx BioPharma; Cephalon; Cerecor; Clarus Funds; Clexio Biosciences; Clintara, LLC; Covance; Covidien; Eli Lilly and Company; EnVivo Pharmaceuticals, Inc.; Euthymics Bioscience, Inc.; Forest Pharmaceuticals, Inc.; FORUM Pharmaceuticals; Ganeden Biotech, Inc.; GlaxoSmithKline; Harvard Clinical Research Institute; Hoffman-LaRoche; Icon Clinical Research; Indivior; i3 Innovus/Ingenix; Janssen R&D, LLC; Jed Foundation; Johnson & Johnson Pharmaceutical Research & Development; Lichtwer Pharma GmbH; Lorex Pharmaceuticals; Lundbeck Inc.; Marinus Pharmaceuticals; MedAvante; Methylation Sciences Inc; National Alliance for Research on Schizophrenia & Depression (NARSAD); National Center for Complementary and Alternative Medicine (NCCAM); National Coordinating</p>	<p>Research Support</p>

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	<p>Center for Integrated Medicine (NiCM); National Institute of Drug Abuse (NIDA); National Institute of Mental Health (NIMH); Neuralstem, Inc.; NeuroRx; Novartis AG; Organon Pharmaceuticals; Otsuka Pharmaceutical Development, Inc.; PamLab, LLC.; Pfizer Inc.; Pharmacia-Upjohn; Pharmaceutical Research Associates, Inc.; Pharmavite® LLC; Pharmorx Therapeutics; Photothera; Reckitt Benckiser; Roche Pharmaceuticals; RCT Logic, LLC (formerly Clinical Trials Solutions, LLC); Sanofi-Aventis US LLC; Shenox Pharmaceuticals, LLC; Shire; Solvay Pharmaceuticals, Inc.; Stanley Medical Research Institute (SMRI); Synthelabo; Taisho Pharmaceuticals; Takeda Pharmaceuticals; Tal Medical; VistaGen; Wyeth-Ayerst Laboratories</p> <p>Abbott Laboratories; Acadia; Affectis Pharmaceuticals AG; Alkermes, Inc.; Amarin Pharma Inc.; Aspect Medical Systems; AstraZeneca; Auspex Pharmaceuticals; Avanir Pharmaceuticals; AXSOME Therapeutics; Bayer AG; Best Practice Project Management, Inc.; Biogen; BioMarin Pharmaceuticals, Inc.; BioXcel Therapeutics; Biovail Corporation; Boehringer Ingelheim; Boston Pharmaceuticals; BrainCells Inc; Bristol-Myers Squibb; CeNeRx BioPharma; Cephalon, Inc.; Cerecor; Clexio Biosciences; CNS Response, Inc.; Compellis Pharmaceuticals; Cypress Pharmaceutical, Inc.; DiagnoSearch Life Sciences (P) Ltd.; Dinippon Sumitomo Pharma Co. Inc.; Dov Pharmaceuticals, Inc.; Edgemont Pharmaceuticals, Inc.; Eisai Inc.; Eli Lilly and Company; EnVivo Pharmaceuticals, Inc.; ePharmaSolutions; EPIX Pharmaceuticals, Inc.; Euthymics Bioscience, Inc.; Fabre-Kramer Pharmaceuticals, Inc.; Forest Pharmaceuticals, Inc.; Forum Pharmaceuticals; GenOmind, LLC; GlaxoSmithKline; Grunenthal GmbH;</p>	<p>Advisory Board/Consultant</p>
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