

Jointly provided by the American Psychiatric Association
and the Minnesota Psychiatric Society

Minnesota Psychiatric Society 2018 Fall Program
Technology and Transformative Psychiatric Practice

Saturday, November 17, 2018 7:30 am – 5:00 pm

Minneapolis Golf Club

2001 Flag Avenue South, St Louis Park, MN 55426

Program Agenda

- 7:30 am Check-in / Breakfast / Exhibits
- 8:00 am *Welcome and Overview* – Ziad Nahas, MD
- 8:05 am Keynote: *Application of Machine Learning and Artificial Intelligence to Neuropsychiatry Care* – John Pestian, PhD, MBA
- 9:20 am *Digital Aids and Applications* – Brent G. Nelson, MD
- 10:15 am Break / Exhibits
- 10:30 am *Clinical Use of Ketamine* – Sophia Albott, MD
- 11:25 am Poster Session
- 11:40 am Lunch / Exhibits
- 12:30 pm Keynote: *Brain Stimulation and the Future of ECT* – Harold Sackeim, PhD
- 1:45 pm *TMS and EEG Markers of Adolescent Depression and Suicidality* – Charles Lewis, MD; Deniz Doruk Camsari, MD
- 2:40 pm Break / Exhibits
- 2:55 pm *ECT and Clinical Practice Today* – Q & A Session: Keith G. Rasmussen, MD; Harold Sackeim, PhD
- 3:50 pm *Epidural Prefrontal Cortical Stimulation* – Ziad Nahas, MD
- 4:45 pm Summary and Close – Ziad Nahas, MD
- 5:00 pm Adjourn

Overview

The future of psychiatric practice is being designed today. Technology is advancing at an incredible pace, ushering an era of rapidly developing tools. These innovations promise to address critical issues facing psychiatry and the society at large – issues like individualized medicine, suicide and addiction. These urgent needs are at once positive and challenging for psychiatric practitioners and researchers. New developments need to be critically explored and evaluated in terms of patient care and practice. This compelling program focuses on innovative apps and clinical applications for clinical practice and how to enhance patient engagement and care. The widespread applications of Ketamine merits closer discussions. TMS and ECT are clinically available tools but also quickly evolving. Other neuromodulation tools for various neuropsychiatric conditions are also on the horizon. Our keynoter speaker and many of our other presenters are national experts whose presentations will offer new information to build and engage psychiatry's future and highlight some of the tools on which it will build. Our interactive learning poster session will feature trainees, researchers, and visionaries.



Educational Objectives

At the end of the educational activity, the learner will be able to:

- Learners will understand the course content and structure.
- Understand the basics of machine learning.
- Understand when the application of advanced computational methods is appropriate in neuropsychiatric care.
- Understand how to use both structured and unstructured care.
- Understand the landscape of the medical apps marketplace
- Describe tools available to evaluate the quality of apps and their use in clinic care
- Consider the impact of artificial intelligence and deep learning on future offerings and clinical practice
- To discuss advances in the use of ketamine for treatment resistant depression
- To review recent literature on the mechanism of action, novel dosing strategies and other psychiatric indications for the use of ketamine.
- Describe challenges and clinical risks for the use of ketamine in the clinic
- Discussion of the essential features of brain stimulation interventions in neurology and psychiatry
- Discussion of the current status of ECT in terms of efficacy in depression, relapse prevention, and cognitive effects
- Discussion of future innovations in ECT including alterations of treatment technique, spatial targeting, avoiding convulsions, new indications, and non-seizure treatment
- Understand how transcranial magnetic stimulation (TMS) can be used for both neurophysiologic research and as a neuromodulatory treatment
- Identify what has been learned from TMS research about brain physiology in adolescent depression and suicidality
- Review available evidence for TMS as a treatment for adolescent depression
- Learn about quantitative EEG (QEEG) and its potential applications in understanding the pathophysiology of adolescent depression and suicidality, as well as in guiding future treatments
- The attendees will have the opportunity to ask questions about modern ECT practice, and the moderator will answer them.

Who Should Attend

This educational activity is intended for psychiatrists, primary care physicians, psychologists, social workers, physician assistants, registered nurses, advance practice nurses, and clinic administrators. All mental health professionals and general health professionals are welcome, including students and residents.

Exhibitors

American Professional Agency, Inc. - Magstim - NeuroNetics, Inc. - Pfizer - Professional Risk Management Services

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education through the joint providership of the American Psychiatric Association (APA) and Minnesota Psychiatric Society. The APA is accredited by the ACCME to provide continuing medical education for physicians.

Designation

The APA designates this live activity for a maximum of 7.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Physician CME Certificates

At the conclusion of the conference, physician participants will be provided with an opportunity to claim hours of participation and receive an official CME certificate by completing the online CME conference evaluation.

1. Go to <http://apapsy.ch/mn-tech>
2. Click "Access Activity" and log in with your APA username and password or create a new account.
3. Enter the Group ID **MN182** on the Purchase page and click "Submit" to proceed to the evaluation and certificate. Select "AMA PRA Category 1 Physician" as your certificate type.

You must claim your CME credit within 60 days of the conference. **Certificates will not be issued after January 15, 2019.** For customer support, please email apalms@psych.org.

Certificate of Attendance for Non-Physicians

Non-physician participants will have the opportunity to receive a certificate of attendance. At the conclusion of the conference, participants should complete the online conference evaluation at <http://apapsy.ch/mn-tech> in order to print a certificate of attendance. Follow the instructions above, but select "Certificate of Participation" as your certificate type.

Biographical and Disclosure Information – Faculty / Planning Committee

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Notes

