

## Activity Preview

# Pharmacogenetics and Precision Antidepressant Dosing

## Activity Type

Live Webinar

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## Overview

The available evidence for pharmacogenomic testing to guide treatment with selective serotonin reuptake inhibitors and serotonin norepinephrine reuptake inhibitors has dramatically increased over the past five years. In this presentation, general pharmacogenetic principles will be summarized and functional polymorphisms in P450 enzymes (and associated metabolizer phenotypes), the serotonin transporter promoter polymorphisms, serotonin 2A receptor genes (e.g., HT2AR) and catecholamine pathway genes (e.g., COMT) will be reviewed. Commonly tested pharmacogenetic markers are discussed with regard to studies of drug levels, efficacy and side effects. Finally, this presentation will summarize the current evidence and review the way in which variations in individual genes that may be relevant to medication metabolism or medication target engagement, can be used to guide treatment in the clinic, today.

## Learning Objectives

- 1) Describe the relevance of pharmacokinetic genes in predicting SSRI exposure.
- 2) Describe the evidence for pharmacodynamic genes in guiding treatment selection in patients with depression and anxiety disorders.
- 3) Define and apply common pharmacogenetic concepts such as phenoconversion.

## Faculty

**Jeff Strawn, MD** is an Associate Professor of Psychiatry and Pediatrics at the University of Cincinnati and at Cincinnati Children's Hospital. He earned a bachelor's degree in biology at the University of Kentucky and then his M.D. from the University of Cincinnati. He completed general psychiatry residency training at the UC and a clinical fellowship in child and adolescent psychiatry at Cincinnati Children's Hospital.

His research focuses on anxiety disorders and risk factors for these conditions as well as on the pharmacologic treatment of these disorders. With his collaborators, Dr. Strawn uses functional neuroimaging, pharmacogenetics and pharmacologic approaches to identify early predictors of treatment response and medication tolerability in anxiety disorders. In his clinical practice, at Cincinnati Children's Hospital, he works with youth with anxiety and related disorders and with their families and supervises residents and fellows.

Dr. Strawn has authored 130 peer-reviewed publications and co-authored two textbooks on the treatment of children and adolescents and on contemporary psychotherapy. He is a distinguished fellow of the American Academy of Child & Adolescent Psychiatry and has received multiple awards for teaching, mentorship and research.

## Disclosure

Dr. Strawn reports the following commercial interests:

Research Grant	National Institutes of Health (NICHD/NIEHS/NIMH) Yung Foundation, Otuska, Neuronetics, Allergan
Consultant	Myriad Genetics (approximately 2015)
Employee	University of Cincinnati
Speaker's Bureau	CMEology
Stock Ownership	None
Other Financial or Material Support	None

Dr. Strawn will not be discussing unapproved or investigational use of any product.

## Target Audience

This activity is designed for psychiatrists and residents/fellows. Other groups may find this educational activity of interest including: medical students, other non-psychiatrist physicians including primary care, as well as psychologists, nurses, social workers, counselors and other mental health care professionals.

## Estimated Time

60 minutes

## Continuing Medical Education Credit

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

The American Psychiatric Association designates this activity for a maximum of 1 AMA PRA Category 1 Credit. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## How to Earn Credit

Participants who wish to earn *AMA PRA Category 1 Credit*™ or a certificate of participation may do so by completing all sections of the course including the evaluation. After evaluating the program, course participants will be provided with an opportunity to claim hours of participation and print an official CME certificate (physicians) or certificate of participation (non-physicians) showing the completion date and hours earned.

## Planner Disclosures

- Karen Jacobs, DO, Cleveland Clinic Foundation  
*Reports no financial relationships with commercial interests.*
- Victoria Kelly, MD, University of Toledo  
*Reports no financial relationships with commercial interests.*
- William Resch, DO, The Ohio State University Medical Center, Columbus  
*Reports no financial relationships with commercial interests.*
- Suzanne Sampang, MD, University of Cincinnati  
*Reports no financial relationships with commercial interests.*
- Janet Shaw, MBA, Ohio Psychiatric Physicians Association, Columbus  
*Reports no financial relationships with commercial interests.*
- Kristi Williams, MD, University of Toledo  
*Reports no financial relationships with commercial interests.*
- Elizabeth Yoder, MD, Private Practice, Columbus  
*Reports no financial relationships with commercial interests.*

## Hardware/Software Requirements

### System requirements

- A laptop computer, desktop computer, smartphone, or tablet
- An internet connection – broadband wired or wireless (3G or 4G/LTE)
- Speakers and a microphone – built-in or USB plug-in or wireless Bluetooth
- A webcam or HD webcam - built-in or USB plug-in

### Joining a webinar (or accessing an on-demand webinar)

- Sign-in to the [Zoom](#) Desktop Client or Mobile App
- Click or tap **Join** a Meeting. Enter the 9-digit **webinar** ID and click **Join** or tap **Join** Meeting. Enter Meeting Password
- If prompted, enter your name and email address, then click **Join Webinar** or tap **Join**.

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## Pricing

- General Member – Series\*: \$149; Single webinar/on-demand topic: \$29
- Resident-Fellow Member – Series \$99; Single webinar/on-demand topic: \$19
- Non-member Psychiatrist, Non-Psychiatric Physician and Psychologist – Series: \$199; Single webinar/on-demand topic: \$49
- Non-Member Resident/Fellow Series: \$149; Single webinar/on-demand topic: \$39
- Nurse, Counselor, Social Worker or Physician Assistant – Series: \$179; Single webinar/on-demand topic: \$39

\* Note: Series pricing is for all nine topics

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