AUTISM SPECTRUM DISORDER
ACROSS THE LIFESPAN

SATURDAY - SUNDAY • JANUARY 21-22, 2017
Westin Copley Place • 10 Huntington Avenue, Boston, MA

COURSE DIRECTORS

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

Gagan Joshi, MD
Director, Autism Spectrum Disorders Program,
Clinical & Research Program in Pediatric
Psychopharmacology
Massachusetts General Hospital
Assistant Professor of Psychiatry
Harvard Medical School

MASSACHUSETTS
GENERAL HOSPITAL
PSYCHIATRY ACADEMY
AUTISM SPECTRUM DISORDER ACROSS THE LIFE SPAN
SATURDAY - SUNDAY • JANUARY 21-22, 2017
WESTIN COPLEY PLACE • 10 HUNTINGTON AVENUE, BOSTON, MA

WELCOME
On behalf of the entire Massachusetts General Hospital Department of Psychiatry, we are proud to welcome you to our conference on Autism Spectrum Disorders Across the Life Span.

This conference offers a comprehensive overview of Autism Spectrum Disorders (ASD) across many topics, challenges and treatment strategies. In fact, the agenda is organized into topic-specific modules that include short lectures, expert debate, and the opportunity to engage faculty in dialogue about clinical challenges.

These modules review important research and advances beginning with assessment measures and diagnostic challenges and ranging all the way through genetics, neuroimaging, comorbidities, effective interventions, and much more.

In every session and discussion, our faculty strive to help you assess, treat and manage your patients in the best way possible. There are also Curbside Consultation hours when they are available to address specific questions and clinical cases.

Please enjoy the conference and join us in conversation about issues and questions that are important to your practice.

TARGET AUDIENCE
The target audience for this event is psychiatrists, primary care and family practice physicians, pediatricians, psychologists, nursing professionals, social workers, school mental health counselors, and other mental health, primary care and pediatric clinicians.

COMPLIMENTARY BREAKFAST AND COFFEE BREAKS
Complimentary breakfast and coffee breaks will be available to course participants. Please note that lunch and dinner will be on your own.

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/autism

QUESTIONS
Opportunity for questions will be provided at the end of each module during the panel discussion. Please write your questions on the index cards provided. Cards will be collected during the last 15 minutes of the lecture prior to the start of the panel discussion. Experience has shown that this method is preferable to that of spontaneous questions.

COPYRIGHT
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CELLULAR TELEPHONES & PAGERS
During the lectures, we ask that you turn your cell phones and pagers to vibrate or off. We also ask that you do not talk on your cell phones inside the meeting room. Thank you for your cooperation.

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:

▪ Assess for autism in clinically referred populations.

▪ Analyze the significant presence of various psychiatric disorders in individuals with autism and corresponding treatments.

▪ Discuss the clinical applicability of the latest advances in neuroimaging, genetics, and treatment research in autism.

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.

McLean Hospital designates this live activity for a maximum of 15.00 AMA PRA Category 1 Credits™. 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 15.00 Continuing Education (CE) credits for psychologists.

REGISTERED NURSES
This program meets the requirements of the Massachusetts Board of Registration in Nursing (244 CMR 5.00) for 15.00 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
Application for social work continuing education credits has been submitted. Please contact us at mghcme@mgh.harvard.edu for the status of social work CE accreditation.

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.

EXHIBITOR
We would like to thank the following company for their exhibit support:
Aware, Inc.
AGENDA

SATURDAY, JANUARY 21, 2017

7:00 – 8:00 AM  Registration & Continental Breakfast

8:00 – 8:15 AM  Welcoming Remarks
                Joseph Biederman, MD

8:15 – 8:35 AM  Introduction and Overview
                Gagan Joshi, MD

MODULE TOPIC: DIAGNOSTIC DILEMMAS

8:35 – 8:55 AM  DSM-5: Diagnostic Approach to Autism Spectrum Disorder
                Bennett L. Leventhal, MD

8:55 – 9:15 AM  Prevalence of Autism Spectrum Disorder in Intellectually Capable Populations
                Young Shin Kim, MD, MS, MPH, PhD

9:15 – 9:35 AM  Low Functioning Autism Spectrum Disorder
                Walter E. Kaufmann, MD

9:35 – 10:05 AM Panel Discussion
               Moderator: Gagan Joshi, MD
               Panelists: Walter E. Kaufmann, MD, Young Shin Kim, MD, MS, MPH, PhD,
                          Bennett L. Leventhal, MD

10:05 – 10:20 AM Coffee Break

MODULE TOPIC: ASD ASSESSMENT MEASURES FOR PSYCHIATRICALLY REFERRED POPULATIONS

10:20 – 10:40 AM Tools for Assessing ASD in Clinic & Research Setting
                Gagan Joshi, MD

10:40 – 11:00 AM Screening and Assessment of ASD in the Primary Care Setting
                Roula N. Choueiri, MD

11:00 – 11:20 AM Diagnostic Role of Autism Diagnostic Interview-Revised (ADI-R) & Observation Schedule (ADOS) in Clinic Settings: Strengths and Limitations
                Karmen Koesterer, EdM, MA

11:20 – 11:50 AM Panel Discussion
                Moderator: Gagan Joshi, MD
                Panelists: Karmen Koesterer, EdM, MA, Roula N. Choueiri, MD

11:50 – 12:50 PM Lunch (On your own)

MODULE TOPIC: GENETICS OF AUTISM: CLINICAL IMPLICATIONS

12:50 – 1:10 PM Role of Molecular Genetic Assessment for Autism in Clinical setting
                Young Shin Kim, MD, MS, MPH, PhD
1:10 – 1:30 PM  
**Heterogeneity of Autism Spectrum Disorders**  
Elise B. Robinson, ScD

1:30 – 2:00 PM  
**Panel Discussion**  
**Moderator:** Joseph Biederman, MD  
**Panelists:** Young Shin Kim, MD, MS, MPH, PhD, Elise B. Robinson, ScD

2:00 – 2:15 PM  
**Coffee Break**

2:15 – 2:35 PM  
**Neurological Comorbidity**  
Ann M. Neumeyer, MD

2:35 – 2:55 PM  
**Assessing Work & Driving Needs in High-Functioning Autism Spectrum Disorder**  
Ronna Fried, EdD

2:55 – 3:15 PM  
**Are Autistic Traits Clinically Meaningful?**  
Joseph Biederman, MD

3:15 – 3:35 PM  
**Legal Issues in Treating Individuals with Autism**  
Ronald Schouten, MD, JD  
(**Session is eligible for risk management credit)**

3:35 – 4:05 PM  
**Panel Discussion**  
**Moderator:** Joseph Biederman, MD  
**Panelists:** Ann M. Neumeyer, MD, Ronna Fried, EdD, Ronald Schouten, MD, JD

4:05 – 5:15 PM  
**Dinner (on your own)**

5:15 – 6:15 PM  
**Evening Seminars**  
(Participants may choose only one seminar presentation to attend)

**Autism Spectrum Disorder: Parent and Caregiver’s Perspective**  
Hosted by: Jim Braude, Kris Rondeau, Constance Sullivan, Kathleen Yazbak  
(*America Ballroom Center-South, 4th Floor*)

**Department of Mental Health: Services for Individuals with ASD & Psychopathology**  
Hosted by: Kathy M. Sanders, MD, Cynthia Berkowitz, MD  
(*Independence A-B, 4th Floor*)
SUNDAY, JANUARY 22, 2017

7:00 – 8:00 AM  Continental Breakfast

MODULE TOPIC: PROMISE OF NEUROIMAGING FOR CLINICAL PRACTICE

8:00 – 8:20 AM  Spectroscopic Neuroimaging in Autism
Gagan Joshi, MD

8:20 – 8:40 AM  Functional Neuroimaging in Autism
Susan Whitfield-Gabrieli

8:40 – 9:00 AM  Role of MEG in Examining Neural Basis of ASD & Psychopathologies
Tal Kenet, PhD

9:00 – 9:30 AM  Panel Discussion
Moderator: James McCracken, MD
Panelists: Tal Kenet, PhD, Susan Whitfield-Gabrieli, Gagan Joshi, MD

9:30 – 9:45 AM  Coffee Break

MODULE TOPIC: PSYCHIATRIC COMORBIDITY

9:45 – 10:05 AM  ADHD
Gagan Joshi, MD

10:05 – 10:25 AM  Anxiety Disorders and Obsessive-Compulsive Disorder
Lawrence Scahill, PhD

10:25 – 10:45 AM  Bipolar Disorder
Janet Wozniak, MD

10:45 – 11:05 AM  Distinguishing Emotional Regulation from Mood Disorders
Joseph Biederman, MD

11:05 – 11:25 AM  Differential Diagnosis in Psychosis and Autism
Abigail Donovan, MD

11:25 – 11:55 AM  Panel Discussion
Moderator: Joseph Biederman, MD
Panelists: Gagan Joshi, MD, Lawrence Scahill, PhD, Abigail Donovan, MD, Janet Wozniak, MD

11:55 – 12:55 PM  Lunch (On your own)

MODULE TOPIC: PSYCHOLOGICAL INTERVENTIONS

12:55 – 1:15 PM  Targeted Treatments for Core Deficits in Children with Autism Spectrum Disorder
Connie Kasari, PhD

1:15 – 1:35 PM  Cognitive-Behavior Therapy for Autism Spectrum Disorder
Aude Henin, PhD
### Social Skills Training for Youth with High-Functioning Autism Spectrum Disorder
Scott McLeod, PhD

### Neuropsychological Assessment of Autism Spectrum Disorder
Ronna Fried, EdD

### Panel Discussion
**Moderator:** Connie Kasari, PhD  
**Panelists:** Aude Henin, PhD, Scott McLeod, PhD, Ronna Fried, EdD

### Coffee Break

#### MODULE TOPIC: PSYCHOPHARMACOLOGIC INTERVENTIONS

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<tr>
<th>Time</th>
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| 3:00 – 3:20 PM | **State of the Art Treatments for Autism Spectrum Disorder in Intellectually Disabled Populations**  
Lawrence Scahill, PhD |
| 3:20 – 3:40 PM | **Pharmacologic Treatment of Social Cognition in Autism**  
Gagan Joshi, MD |
| 3:40 – 4:00 PM | **New Drug Targets for High Functioning Autism Spectrum Disorder**  
James McCracken, MD |
| 4:00 – 4:30 PM | **Panel Discussion**  
**Moderator:** James McCracken, MD  
**Panelists:** Gagan Joshi, MD, Lawrence Scahill, PhD |
| 4:30 – 5:00 PM | **Ask the Experts Round Table**  
Joseph Biederman, MD, Gagan Joshi, MD, James McCracken, MD |
| 5:00 PM       | **Adjourn**                                                             |
FACULTY

Course Directors:

Joseph Biederman, MD
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Massachusetts Institute of Technology

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Department of Psychiatry
UCLA Semel Institute

Jim Braude
Evening Seminar Panelist

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Massachusetts General Hospital
Assistant Professor of Neurology
Harvard Medical School

Abigail Donovan, MD
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Associate Director, Acute Psychiatry Service
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Assistant Professor of Psychiatry
Harvard Medical School

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Director, Psychiatric Genetic Epidemiology Program
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Massachusetts General Hospital/Broad Institute of MIT  
Instructor in Medicine  
Harvard Medical School

Kris Rondeau  
Evening Seminar Panelist

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Commonwealth of Massachusetts  
Psychiatrist, Department of Psychiatry  
Massachusetts General Hospital  
Assistant Professor of Psychiatry  
Harvard Medical School

Lawrence Seahill, PhD  
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Emory University School of Medicine  
Director of Clinical Trials  
Marcus Autism Center, Atlanta GA

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Massachusetts General Hospital  
Associate Professor of Psychiatry  
Harvard Medical School

Constance Sullivan  
Evening Seminar Panelist

Susan Whitfield-Gabrieli  
Research Scientist, McGovern Institute for Brain Research  
Massachusetts Institute of Technology

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

Kathleen Yazbak  
Evening Seminar Panelist
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
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The following planners, speakers, and content reviewers, on behalf of themselves and their spouse or partner, have reported financial relationships with an entity producing, marketing, re-selling, or distributing health care goods or services (relevant to the content of this activity) consumed by, or used on, patients:

Speakers:
Joseph Biederman, MD
    Research Support: The Department of Defense, Food & Drug Administration, Lundbeck, Merck, Neurocentria Inc., PamLab, Pfizer, Shire Pharmaceuticals Inc., SPRITES, Sunovion, and NIH.
    Financial Interest: Avekshan LLC
    Consulting: Arbor Pharmaceuticals, Akili, Medgenics
    Consulting Fee and/or Honoraria: Alcobra, APSARD

Ronna Fried, EdD
    Research Support: Lundbeck, FDA

Aude Henin, PhD
    Consultant: Clintara Consulting, Alkermes, Otsuka
    Royalties (book authorship): Oxford University Press
Gagan Joshi, MD

**Research Support (PI for investigator-initiated studies):** National Institute of Mental Health (NIMH) Grant Award Number K23MH100450, Pfizer Pharmaceuticals

**Research Support (Site PI for multi-site trials):** The Simons Center for the Social Brain, Duke University, Forest Research Laboratories, Sunovion Pharmaceuticals

**Research Support (Co-Investigator for clinical trials):** U.S. Department of Defense, Pamlab LLC, and Merck Schering Plough Corporation

**Honoraria:** Governor’s Council for Medical Research and Treatment of Autism in New Jersey, American Academy of Child and Adolescent Psychiatry, Medical Society of Delaware, Simons Foundation

Connie Kasari, PhD

**Research Support:** Merck Foundation

**Research Contract (Spouse):** Psyadon

**Honoraria (Spouse):** Alcobra Pharma

**Consultant Income (Spouse):** Think Now, Inc

Walter E. Kaufmann, MD

**Consultant:** Neuren, Edison, Newron, EryDel, Marinus, Echo Pharmaceuticals, GW Pharmaceuticals

**Research support:** Ipsen, Eloxx

Young Shin Kim, MD, MS, MPH, PhD

**Research Grant (Spouse):** Janssen

**Consultant on a non-pharmaceutical project (Spouse):** Janssen

**Research Support (Spouse):** NIH

Bennett L. Leventhal, MD

**Research Grant:** Janssen

**Consultant on a non-pharmaceutical project:** Janssen

**Research Support:** NIH

James McCracken, MD

**Research Contract:** Psyadon

**Honoraria:** Alcobra Pharma

**Consultant Income:** Think Now, Inc

**Research Support (Spouse):** Merck Foundation

Lawrence Scahill, PhD

**Consultant:** Neuren, Roche, Supernus

**Royalties:** Oxford, Guilford

**Rater Training:** Bracket

Janet Wozniak, MD

**Royalties (Spouse):** Cambridge University Press, UptoDate

**Consultation Fees (Spouse):** Advance Medical, FlexPharma, Merck

**Research Support (Spouse):** UCB Pharma, NeuroMetrix

All other individuals including course directors, planners, reviewers, faculty, staff, etc., who are in a position to control the content of this educational activity have, on behalf of themselves and their spouse or partner, reported no financial relationships related to the content of this activity.
PLEASE NOTE THAT THIS IS NOT THE OFFICIAL PROGRAM EVALUATION
AUTISM SPECTRUM DISORDER ACROSS THE LIFE SPAN

Use this page to take notes on the speakers for their presentations. Evaluations will be available for completion online at mghcme.org/autism

Rating scale: 1 = Strongly Disagree, 2 = Disagree, 3 = Agree, 4 = Strongly Agree.

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<td>11:20 – 11:50 AM – Panel Discussion</td>
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Module Topic: Genetics of Autism: Clinical Implications

12:50 – 1:10 PM – Young Shin Kim, MD, MS, MPH, PhD 1 2 3 4
1:10 – 1:30 PM – Elise B. Robinson, ScD 1 2 3 4
1:30 – 2:00 PM – Panel Discussion 1 2 3 4
2:15 – 2:35 PM – Ann M. Neumeyer, MD 1 2 3 4
2:35 – 2:55 PM – Ronna Fried, EdD 1 2 3 4
2:55 – 3:15 PM – Joseph Biederman, MD 1 2 3 4
3:15 – 3:35 PM – Ronald Schouten, MD, JD 1 2 3 4
3:35 – 4:05 PM – Panel Discussion 1 2 3 4

5:15 – 6:15 PM – Evening Seminars (participants may choose only one seminar to attend)

Autism Spectrum Disorder: Parent and Caregiver’s Perspective

1 2 3 4

Department of Mental Health: Services for Individuals with ASD & Psychopathology

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SUNDAY, JANUARY 22, 2017

Module Topic: Promise of Neuroimaging for Clinical Practice

8:00 – 8:20 AM – Gagan Joshi, MD 1 2 3 4
8:20 – 8:40 AM – Susan Whitfield-Gabrieli 1 2 3 4
8:40 – 9:00 AM – Tal Kenet, PhD 1 2 3 4
9:00 – 9:30 AM – Panel Discussion 1 2 3 4

Module Topic: Psychiatric Comorbidity

9:45 – 10:05 AM – Gagan Joshi, MD 1 2 3 4

10:05 – 10:25 AM – Lawrence Scahill, PhD 1 2 3 4
10:25 – 10:45 AM – Janet Wozniak, MD 1 2 3 4
10:45 – 11:05 AM – Joseph Biederman, MD 1 2 3 4
11:05 – 11:25 AM – Abigail Donovan, MD
11:25 – 11:55 PM – Panel Discussion

**Module Topic: Psychological Interventions**

12:55 – 1:15 PM – Connie Kasari, PhD
1:15 – 1:35 PM – Aude Henin, PhD
1:35 – 1:55 PM – Scott McLeod, PhD
1:55 – 2:15 PM – Ronna Fried, EdD
2:15 – 2:45 PM – Panel Discussion

**Module Topic: Psychopharmacologic Interventions**

3:00 – 3:20 PM – Lawrence Sachill, PhD
3:20 – 3:40 PM – Gagan Joshi, MD
3:40 – 4:00 PM – James McCracken, MD
4:00 – 4:30 PM – Panel Discussion
4:30 – 5:00 PM – Ask the Experts Round Table
5:00 PM Adjourn

**Complete the course evaluation in full online at mghcme.org/autism**
Three Steps to Claiming your CME Credit...

1: Visit www.mghcme.org/autism and click on the orange ‘Register’ button.

2: Enter your ‘Academy Login’ username and password then click the ‘Login’ button. If you have forgotten your password, please click the ‘Reset Your Password?’ button. Once logged in, select your certificate type.

3: Click on the ‘Evaluation’ button. Once you have completed your evaluation, and attested to the number of sessions you attended, your certificate will be generated. You should claim only the credit commensurate with the extent of your participation in the activity. Complete the evaluation and claim your credit by February 20, 2017.
How to reset your password...

Please visit [www.mghcme.org/reset](http://www.mghcme.org/reset) and enter the email address that you used to set up your account, and then click Submit. You will receive an email with instructions to reset your password. The email will also include your username. If you do not receive an email within 2-3 minutes, please check your Spam/Junk Mail folder. After resetting your password, return to the activity, enter your login information, and you will be able to complete the evaluation and claim your credit!