About Child Health at Harvard Catalyst

The Child Health Committee at Harvard Catalyst provides leadership and direction in the development of programs, resources, and strategies that focus on improving the health and well-being of children. The goal of this initiative is to foster collaboration across Harvard, its affiliated institutions, and the national CTSA Consortium and to support innovative and collaborative research in this area. Committee Co-Chairs are Elizabeth Goodman, MD, and Ellis Neufeld, MD, PhD. For more information, contact childhealth@catalyst.harvard.edu

Mental Health and the Developing Brain in the Second Decade of Life: Research Challenges & Opportunities

October 6, 2014
9:00am–5:30pm

The Annual Child Health Symposium

Joseph B. Martin Conference Center
Harvard Medical School
77 Avenue Louis Pasteur, Boston, MA

About Harvard Catalyst

Founded in 2008, Harvard Catalyst | The Harvard Clinical and Translational Science Center is dedicated to improving human health by enabling collaboration and providing tools, training, and technologies to clinical and translational investigators. As a shared enterprise of Harvard University, Harvard Catalyst resources are available to all Harvard faculty and trainees, regardless of institutional affiliation or academic degree.
9:00am | Welcome and Opening Remarks

Elizabeth Goodman, MD
Associate Chief for Community-Based Research, MassGeneral Hospital for Children; Professor of Pediatrics, Harvard Medical School; Co-chair, Harvard Catalyst Child Health Committee

Lee Nadler, MD
Virginia and D.K. Ludwig Professor of Medicine, Harvard Medical School; Dean for Clinical and Translational Research, Harvard Medical School; Senior Vice President for Experimental Medicine, Dana-Farber Cancer Institute

9:15am | Keynote Address

Moderator: Michael Jellinek, MD
Professor of Psychiatry and Pediatrics, Harvard Medical School

Framing the Issue: Epidemiologic Patterns

Ronald C. Kessler, PhD.
McNeil Family Professor of Health Care Policy, Department of Health Care Policy, Harvard Medical School

Ronald C. Kessler, PhD, is the McNeil Family Professor of Health Care Policy at Harvard Medical School. His research deals broadly with the social determinants of mental health and illness as studied from an epidemiological perspective. In addition to his epidemiological studies, he is involved in evaluating a number of innovative programs for the prevention and treatment of mental disorders in high-risk segments of the population. Kessler is the author of over 600 publications and the recipient of many awards for his research, including Senior Scientist and MERIT awards from the National Institute of Mental Health. He has been rated as the most widely cited researcher in the world in the field of psychiatry for each of the past 15 years, and is a member of both the Institute of Medicine and the National Academy of Sciences.
The Teen Brain: Insights from Neuroimaging

Jay N. Giedd, MD
Professor, Department of Psychiatry, University of California, San Diego
Director, Division of Child and Adolescent Psychiatry, Rady Children's Hospital-San Diego

Jay N. Giedd, MD, is a professor in the department of psychiatry at the University of California, San Diego, and director of the Division of Child and Adolescent Psychiatry at the Rady Children's Hospital-San Diego. In addition, he is an adjunct professor at Johns Hopkins School of Public Health in the Department of Family and Reproductive Medicine. Over the past 23 years he has combined brain imaging, genetics, and behavioral analysis to explore the path and influences of brain development in health and illness. As one of the most highly cited neuroscientists of his generation, his over 200 scientific publications have had a transformative impact on medicine, psychology, education, judicial, and public policy. His recent work has focused on how new insights from pediatric neuroscience can be used to optimize the environment for healthy brain development, particularly regarding education and the use of digital technologies that have transformed the way youth learn, play, and interact with each other. For his outreach to students of all ages and frequent talks to parents, teachers, mental health workers, legislators, and the general public Giedd was honored as co-recipient of the 2012 Society for Neuroscience's Science Educator Award.

Brain Circuitry Functional Model: Modernizing Medicine in Pediatric Bipolar Disorder

Mani N. Pavuluri, MD, PhD
Berger Colbeth Chair in Child Psychiatry; Director of Pediatric Mood Disorders Program, Pediatric Brain Research And Intervention (BRAIN) Center and Pediatric Mood Disorders Program, University of Illinois at Chicago

Mani Pavuluri, MD, PhD, is a professor in the department of psychiatry at the University of Illinois at Chicago. Her scientific work is a trailblazer for how we understand brain circuitry function and medication effects on the brain function in young children and adolescents with mood disorders such as bipolar disorder and ADHD. Pavuluri's work is foremost among the cohort of studies mapping the interface of thinking and feeling brain circuits. She has developed many programs across the world and consults patients from nearly 30 states in US, and is member of the ACNP. Her book, “What Works for Bipolar Kids: Help and Hope for Parents,” draws on her 25+ years of experience treating children and adolescents with bipolar disorder and depression.

The Phenomenology and Outcome of Mood Dysregulation in Youth

Melissa P. DelBello, MD
Professor of Psychiatry and Pediatrics, University of Cincinnati College of Medicine, Vice Chair for Clinical Research

Melissa P. DelBello, MD, is a co-director of the Division of Bipolar
Disorders Research at the University of Cincinnati College of Medicine. She has authored and co-authored numerous peer-reviewed journal articles, book chapters, and abstracts and is the Principal or Co-Investigator for several NIH, foundation, and pharmaceutical research grants. Her primary research interest is in the neurodevelopment and neuropharmacology of bipolar disorder. In addition to teaching and lecturing both nationally and internationally, DelBello has received numerous awards and honors. She completed her postgraduate education through psychiatry residencies at the University of Cincinnati College of Medicine and Payne Whitney Psychiatric Clinic of the New York Hospital-Cornell Medical Center in New York City, as well as completed a clinical fellowship in child and adolescent psychiatry at Children's Hospital Medical Center in Cincinnati and a research fellowship at the Bipolar and Psychotic Disorders Research Program in the Department of Psychiatry at the University of Cincinnati College of Medicine. She also obtained a master's degree in epidemiology and biostatistics from the University of Cincinnati.

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**Moderator:** Matthew Nock, PhD  
*Professor of Psychology, Department of Psychology, Harvard University*

**Why does suicidal behavior run in families?**

**David A. Brent, MD**  
*Academic Chief, Child & Adolescent Psychiatry, Endowed Chair in Suicide Studies, Professor of Child Psychiatry, Pediatrics & Epidemiology, University of Pittsburgh School of Medicine*

David A. Brent, MD, co-founded and now directs Services for Teens at Risk (STAR), a Commonwealth of Pennsylvania-funded program for suicide prevention, education of professionals, and the treatment of at-risk youth and their families. His work has focused on the identification of risk factors for adolescent depression and suicidal behavior, and on the translation of those findings into clinical interventions. Along with many other colleagues, Brent helped to establish the role of cognitive therapy as a treatment for depressed adolescents and developed guidelines for the management of treatment resistant depression. He and colleagues have endeavored to understand possible intermediate phenotypes for suicidal behavior and mechanisms by which suicidal behavior is transmitted from parent to child. Brent has been recognized for his research by the American Academy of Child and Adolescent Psychiatry, the American Psychiatric Association, the American Foundation for Suicide Prevention, and received the Ruane Prize for research in child psychiatry from NARSAD.

**Psychological and Biological Predictors of Suicidal Ideation and Behavior**

**Maurizio Fava, MD**  
*Director, Clinical Research Program (CRP); Executive Vice Chair, Department of Psychiatry; Executive Director, Clinical Trials Network & Institute (CTNI) Massachusetts General Hospital; Slater Family Professor of Psychiatry, Harvard Medical School*

Maurizio Fava, MD, was the founder and was director of the MGH Depression Clinical and Research Program (DCRP) from 1990 until 2014. Under his direction, the DCRP became one of the most highly regarded depression programs in the country, conducting research in pharmacotherapy of resistant depression, neuroimaging, genetics, neurophysiology, neuroendocrinology, novel pharmacotherapies, alternative medicine, and psychotherapy. Since 2007, he has been director of the MGH Clinical Trials Network and Institute, an academic clinical research organization specialized in multicenter trials and in the use of innovative research methodologies. In 2014, Fava was selected as director of MGH's Clinical Research Program (CRP).

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**Moderator:** Michelle Williams, ScD, SM, MS  
*Stephen B. Kay Family Professor of Public Health; Chair, Department of Epidemiology, Harvard School of Public Health*
Critical Evaluation of Developmentally Informed Studies on the Biology of Violence

Rolf Loeber, PhD
Distinguished Professor of Psychiatry, Professor of Psychology and Epidemiology, University of Pittsburgh

Rolf Loeber, PhD, is the Distinguished University Professor of Psychiatry and Professor of Psychology and Epidemiology at the University of Pittsburgh in Pittsburgh, Pennsylvania. He is co-director of the Life History Program and is principal investigator of three longitudinal studies: the Pittsburgh Youth Study, the Developmental Trends Study, and the Pittsburgh Girls Study. He has published widely in the fields of juvenile antisocial behavior and delinquency, substance use, and mental health problems.

Dynamics of Gang Violence

Gary French
Retired Lieutenant Detective, Boston Police Department

Gary French is a 30-year veteran of the Boston Police Department, and served as the commander of several specialized units, including the Youth Violence Strike Force. He is a recognized police leader with a record for leading innovative and effective solutions to complex criminal justice issues, such as Operation Ceasefire. This is an innovative strategy that seeks to reduce gang violence, illegal gun possession and gun violence in our neighborhoods. French holds a Master’s Degree from Boston University, and serves on several boards, including InnerCity Weightlifting, where he met Joe Sierra who will be speaking with him today.

Joe Sierra
Assistant Manager, InnerCity Weightlifting

Joe Sierra grew up in the Villa Victoria projects in Boston. His mother passed away before he was 10, and his father wasn’t present. He took to the streets to provide for himself what others couldn’t: food, clean clothes, love and support. His life in the streets progressed from stealing, to selling drugs, to guns and violence. From the age of 12 to 23 he didn’t celebrate a single birthday outside of prison, and went from the juvenile system to the adult system, collecting new charges every time he got out. When he was released from jail in December 2011, Sierra was determined to not go back. He didn’t know how, but he joined a nonprofit called InnerCity Weightlifting (ICW), and never missed a day. When ICW opened their own facility in June 2012, Sierra joined the staff, working front desk operations. He began studying for his personal training certification and training clients. Suddenly, he was surrounded by a positive community that accepted him and wouldn’t judge, and be by his side no matter what. Sierra has been out of jail for more than two years, celebrating his birthdays for the first time since he was 11.

3:45pm | Break

4:15pm | Session 4: Concussion & the Developing Brain

Moderator: David DeMaso, MD
Psychiatrist-in-Chief & Chairman of Psychiatry, Boston Children’s Hospital; The Leon Eisenberg Chair in Psychiatry, Boston Children’s Hospital; George P. Gardner & Olga E. Monks Professor of Child Psychiatry and Professor of Pediatrics, Harvard Medical School

Animal Models of Concussion

William P. Meehan III, MD
Doctor, Director, The Micheli Center for Sports Injury Prevention

William P. Meehan III, MD, is director of The Micheli Center for Sports Injury Prevention, director of research for the Brain Injury Center at Boston Children’s Hospital, and assistant professor of pediatrics at Harvard Medical School. He is a member of the American College of Sports Medicine and the American Medical Society for Sports Medicine. Meehan serves on the Section on Emergency Medicine for the American Academy of Pediatrics, the advisory board of the Sports Legacy Institute, and on the Advisory Committee for Sports Head Injuries for the Commonwealth of Massachusetts Department of Public Health. He received his under-
graduate degree from Boston College in 1993 and his medical degree from Harvard Medical School in 2002.

Predicting Recovery from Mild Traumatic Brain Injury in Children

Keith Owen Yeates, PhD
Professor of Psychology, University of Calgary; Senior Scientist, Alberta Children’s Hospital Research Institute and Hotchkiss Brain Institute, University of Calgary School of Medicine

Keith Owen Yeates, PhD, is a fellow of the American Psychological Association, and has served as president of the Society of Clinical Neuropsychology of the American Psychological Association and of the Association of Postdoctoral Programs in Clinical Neuropsychology. He was the Canadian Association of Child Neurology John Tibbles Lecturer in 2004, a visiting fellow of the Australian Psychological Society in 2006, the Arthur Benton Award recipient of the International Neuropsychological Society in 2011, and the Department of Neurology Charles Matthews Lecturer at the University of Wisconsin in 2013. He has received substantial external grant funding for research that focuses on the neurobehavioral outcomes of childhood brain disorders, including an Independent Scientist Career Development Award from the National Institutes of Health. Yeates is an associate editor of the Journal of the International Neuropsychological Society and serves on the editorial boards of several other scientific journals.

5:15pm | Closing

2014 Symposium Planning Committee
Elizabeth Goodman, MD
David DeMaso, MD
Michael Jellinek, MD
James Ware, PhD
Timothy Wilens, MD