

Psychiatry Grand Rounds

WCM Department of Psychiatry

Psychology CE Announcement
SW PERRY AWARD

Addressing Heterogenous Outcomes in Bipolar Disorder: Toward a Precision Psychiatry Approach

Katherine E. Burdick, PhD

Jonathan F. Borus, MD Distinguished Chair in Psychiatry
Vice Chair for Research, Department of Psychiatry Director, Mood and Psychosis Research Program Brigham and Women's Hospital
Associate Professor of Psychology in Psychiatry Harvard Medical School

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11:00am – 12:30pm

<https://weillcornell.zoom.us/j/92812036154>

Meeting ID: 928 1203 6154

Password: 12345

*1.5 CE credit available to full time and voluntary faculty psychologists and Social Workers who sign in with their full name, attend the majority of the lecture and complete a survey which will be emailed following the completion of the lecture.

SPEAKER DISCLOSURE:

Dr. Burdick has no relevant financial relationship(s) with ineligible companies to disclose and DOES NOT INTEND to discuss off-label or investigational use of products or services.

Dr. Katherine E. Burdick is the Jonathan F. Borus, MD Distinguished Chair in Psychiatry and the Vice Chair for Research in Psychiatry at Brigham and Women's Hospital in Boston, MA. She is the Director of the Mood and Psychosis Research Program at BWH and is an Associate Professor of Psychology in Psychiatry at Harvard Medical School. Dr. Burdick obtained her Ph.D. in Clinical Neuropsychology from the City University of New York-The Graduate Center and completed her clinical internship and postdoctoral fellowship at Yale University School of Medicine. She is a licensed clinical psychologist in the state of New York. Dr. Burdick is widely recognized as an international leader in neurocognitive research in major psychiatric disorders, with a specific expertise in bipolar disorder (BD). One of the first in the field to acknowledge the presence of cognitive impairment in BD, she has dedicated the past two decades to investigating the clinical, biological, neuroimaging, and genetic correlates of this phenomenon. Dr. Burdick's work has emphasized the key role that cognitive impairment plays in functional disability in BD and highlighted the need to target this domain directly with treatment to promote full recovery in every patient. She was recently awarded the 2021 Colvin Prize for Outstanding Achievement in Mood Disorders Research from the Brain and Behavior Research Foundation (BBRF) and her research has been consistently funded by the National Institute of Mental Health (NIMH), the Veterans Administration (VA), foundations, and through private donors. She has published > 150 peer-reviewed articles and she is a sought-after presenter and educator. Dr. Burdick is the Scientific Chair for the newly launched Breakthrough Discoveries for thriving with Bipolar Disorder (BD2) and a member of the Board of Directors for the National Network of Depression Centers (NNDC). She also serves as the North American representative on the Board of Directors for the International Society for Bipolar Disorders (ISBD) and is active in peer review, serving on 4 editorial boards and as an ad hoc grant reviewer and study section Chair for the NIMH. Beyond her scientific contributions, she embraces her role as a mentor to trainees and young investigators.

Abstract: This lecture will describe evidence to suggest that both early life risk factors and illness-associated risk factors contribute to differential cognitive and functional outcomes in patients with bipolar disorder (BD), pointing toward both neurodevelopmental and neuroprogressive mechanism that drive disease. Further, by addressing the heterogeneity that is inherent to BD, we can better identify modifiable treatment targets to promote full recovery and optimize quality of life in every BD patient. Current limitations in the field include a lack of large-scale, long term, longitudinal studies that can address the complex and dynamic nature of the illness.

Learning Objectives:

- 1) Describe the cognitive profile common to bipolar disorder and compare it with that seen in schizophrenia
- 2) Identify the clinical correlates and biomarkers of cognitive impairment in bipolar patients
- 3) Describe the cognitive trajectory in bipolar disorder including both neurodevelopmental and neurodegenerative processes

References:

- 1: Millett CE, Burdick KE. Defining Heterogeneous Cognitive Trajectories in Bipolar Disorder: A Perspective. *Harv Rev Psychiatry*. 2021 Jul-Aug 01;29(4):298-302. doi: 10.1097/HRP.0000000000000297. PMID: 34033594.
- 2: Millett CE, Harder J, Locascio JJ, Shanahan M, Santone G, Fichorova RN, Corrigan A, Baecher-Allan C, Burdick KE. TNF- α and its soluble receptors mediate the relationship between prior severe mood episodes and cognitive dysfunction in euthymic bipolar disorder. *Brain Behav Immun*. 2020 Aug;88:403-410. doi: 10.1016/j.bbi.2020.04.003. Epub 2020 Apr 6. PMID: 32272224; PMCID: PMC8577222.
- 3: Russo M, Van Rheenen TE, Shanahan M, Mahon K, Perez-Rodriguez MM, Cuesta-Diaz A, Larsen E, Malhotra AK, Burdick KE. Neurocognitive subtypes in patients with bipolar disorder and their unaffected siblings. *Psychol Med*. 2017 Dec;47(16):2892-2905. doi: 10.1017/S003329171700143X. Epub 2017 Jun 7. PMID: 28587689; PMCID: PMC5856455.
- 4: Burdick KE, Russo M, Frangou S, Mahon K, Braga RJ, Shanahan M, Malhotra AK. Empirical evidence for discrete neurocognitive subgroups in bipolar disorder: clinical implications. *Psychol Med*. 2014 Oct;44(14):3083-96. doi: 10.1017/S0033291714000439. Epub 2014 Mar 11. PMID: 25065409; PMCID: PMC4797987.
- 5: Burdick KE, Millett CE, Yocum AK, Altimus CM, Andreassen OA, Aubin V, Belzeaux R, Berk M, Biernacka JM, Blumberg HP, Cleare AJ, Diaz-Byrd C, Dubertret C, Etain B, Eyler LT, Forester BP, Fullerton JM, Frye MA, Gard S, Godin O, Haffen E, Klaus F, Lagerberg TV, Leboyer M, Martinez-Aran A, McElroy S, Mitchell PB, Olie E, Olorunfemi P, Passerieux C, Peters AT, Pham DL, Polosan M, Potter JR, Sajatovic M, Samalin L, Schwan R, Shanahan M, Solé B, Strawbridge R, Stuart AL, Torres I, Ueland T, Vieta E, Williams LJ, Wrobel AL, Yatham LN, Young AH, Nierenberg AA, McInnis MG. Predictors of functional impairment in bipolar disorder: Results from 13 cohorts from seven countries by the global bipolar cohort collaborative. *Bipolar Disord*. 2022 Nov;24(7):709-719. doi: 10.1111/bdi.13208. Epub 2022 Apr 15. PMID: 35322518; PMCID: PMC9500115.

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