The Twelfth Annual Ann Putnam Kaleckas Lecture  
Monday, April 1, 2019  
5:00 Reception   6:00pm Lecture  
Hughes Auditorium, Robert H. Lurie Medical Research Center  
303 E. Superior St.  
“Collaboration in Science and Practice: Why it Matters”

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Abstract: My nearly 30 year career as a movement scientist and physical therapist has opened my eyes to the importance of collaboration with scientists and engineers and importantly with the people we serve as clinicians, our patients. As the title suggests, my talk is divided into two parts; the first is focused on collaboration with scientists who have expertise in complimentary disciplines. The second is focused on collaboration with the people who seek our clinical services. I remind you that these people who volunteer for research, sign a consent to “participate”—as such, they are willing volunteers whose opinion is respected and who are considered to be vital members of the research team. For the ‘collaboration in science’ part, I will provide an overview of three multi-site clinical research collaboratives (i.e., PTClinResNet, OPTT-RERC, ICARE) I have had the opportunity to design and lead, beginning with PTClinResNet, a 3-year Clinical Research Network supported in part by the Foundation for Physical Therapy. I will discuss the timing, infrastructure, collaborative teams, and the important lessons learned from each of these three collaboratives. In addition, I will illustrate the benefit of including participant perspectives and patient-reported outcomes (PROs) as elements that are essential to inform the research. This transitions into the ‘collaboration in practice’ part of my talk. I hope to convince you to not be afraid to integrate quantitative and qualitative measures into your clinical research designs. Specifically, I provide evidence from my group’s recent work for the importance of a behavioral science perspective that incorporates crucial social and personal factors to inform a more mature science moving forward. I will conclude with a brief peak at the future of big science, big data and big everything and ask the question, is this a good or bad thing for rehabilitation science?

Biography: Dr. Winstein’s education profile includes a Certificate and BS in Physical Therapy from UCSF, an MS in Physical Therapy from USC, a PhD in Kinesiology from UCLA, and a Postdoctoral Fellowship from the University of Wisconsin, Madison in the Speech and Motor Control Laboratory. Currently she is Professor of Biokinesiology and Physical Therapy at the Herman Ostrow School of Dentistry with a joint appointment in the Department of Neurology at the Keck School of Medicine and faculty in the Interdisciplinary Neuroscience Graduate Program at USC. She directs the Motor Behavior and Neurorehabilitation Laboratory where she and her graduate students and postdocs run an interdisciplinary research program focused on understanding control, rehabilitation and recovery of goal-directed movements that emerge from a dynamic brain-behavior system in brain-damaged conditions. Her research program has
been funded variously through NIH, NIDRR (now NIDILRR) and the Foundation for Physical Therapy consistently over the past 28 years. She serves as faculty for the NIH supported Training in Grantsmanship in Rehabilitation Research (TIGRR) workshop. She serves on the editorial board of the journal Neurorehabilitation and Neural Repair and currently serves as the immediate past president for the American Society of Neurorehabilitation. Dr. Winstein has over 30 years of multidisciplinary collaborative research experience with a focus on neurorehabilitation, rehabilitation engineering and clinical trials; she has authored more than 100 research papers including chapters, proceedings and commentaries with an overall h-index of 57, an indication of the impact of her research on the neurorehabilitation community.

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