



Biomedical Informatics Grand Rounds



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Clinical Practice Guidelines and HIT: Future Integration Approaches to Improve Care

Wednesday, April 15, 2020 3 pm—4 pm

Abstract:

Clinical practice guidelines have been defined as “systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances.” Rigorous processes of systematic review and evidence synthesis are key elements of guideline development. Traditionally, integration of guidelines into HIT occurs in a sequential fashion after guideline development is finalized and individual organizations decide what guidelines to prioritize for inclusion in electronic health records and other health information software. However, such an approach prolongs the time needed to incorporate evidence-based recommendations at the point-of-care. New approaches to guideline development are aimed at integrating informatics consideration in parallel with guideline development steps and also leveraging artificial intelligence to speed literature review, evidence collection and evidence synthesis. This presentation will provide an overview of guideline development, its associated challenges, and use of informatics to enhance delivery of guideline recommendations to clinicians.

Bio:

Dr. Fochtman is a SUNY Distinguished Service Professor in the Departments of Psychiatry, Pharmacological Sciences and Biomedical Informatics at Stony Brook University. After completing a B.S. degree in electrical engineering and an M.D. degree from Washington University in St. Louis, she trained in psychiatry at the John Hopkins Hospital and completed a fellowship in Clinical Pharmacology through the Pharmacology Research Associates Training Program at the National Institutes of Health (NIH). She has subsequently received a master's degree in biomedical informatics through the Oregon Health and Science University. Since 2001, she has served as the medical editor for the APA Practice Guidelines. More recently, she has participated in the “Adapting Clinical Guidelines for the Digital Age” initiative, sponsored by the Centers for Disease Control. As a member of the faculty at Stony Brook University, Dr. Fochtman is active in caring for patients with acute psychiatric illness and has had a major role in adapting the Stony Brook University Hospital electronic record system to meet the needs of the psychiatric services. She is also an acclaimed educator and has received multiple awards for teaching of residents and medical students. Dr. Fochtman's research spans a broad range of topics in psychiatry including neurochemical effects of psychiatric treatments in animal models, the longitudinal course of psychotic illness and technological approaches to enhancing practice guideline development and psychiatric decision support.

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