

## Funded Innovation Awards 2019

CME Over a Cup of Coffee: Creating Self-Paced, Online Micro-Lectures for Medical Providers to Learn the Fundamentals of Pediatric Emergency Medicine.



The pediatric emergency department requires a team of medical providers from different subspecialties and training backgrounds to provide optimal care for children. Continued ongoing training on key pediatric emergency medicine concepts and evidence-based guidelines is critical for providing excellent care for children at Michigan Medicine. There is not currently a format that allows physicians to learn or stay current about key pediatric emergency medicine (PEM) topics in a short period of time (<15 minutes). The overall objectives of this CME activity are for Michigan Medicine physicians and trainees to gain access to 30 fundamentally important short, focused, video-based lectures that we develop. Key PEM topics will be chosen based upon a formal needs-assessment process. Each topic will allow the learner to earn 0.25 CME (micro-CME). In addition, we will provide didactic sessions for core faculty on how to translate their current traditional lectures into engaging micro-lectures.

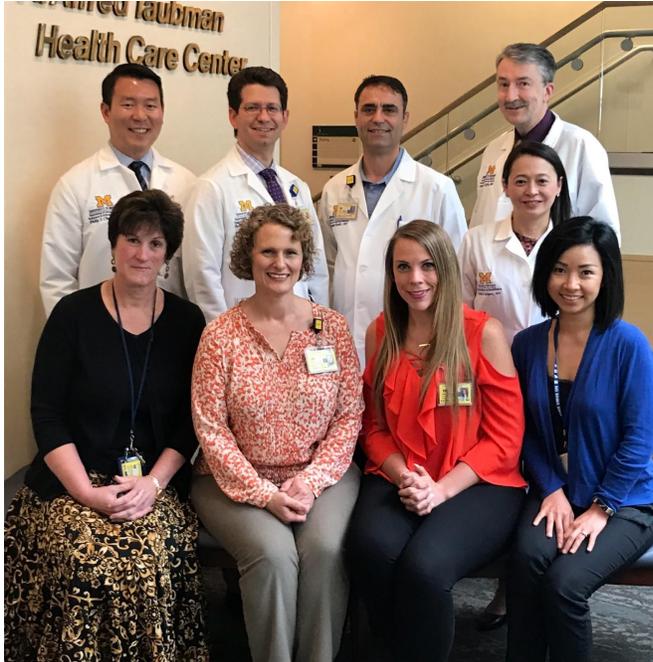
Click [here](#) to enroll in the CME course.

Investigators: Sarah Tomlinson MD, Daphne Ponce Morrison, MD, Meg Wolff MD, MPHE and

Andrew Hashikawa MD, MS.

---

## Home Mechanical Ventilation: A Multidisciplinary Approach.



“Home Mechanical Ventilation: A Multi-Disciplinary Approach” is a 1 day CME activity aimed at empowering clinicians to care for complex patients on home ventilation. We will have a series of morning didactics given by various members of the multi-disciplinary assisted ventilation team. These disciplines include pulmonary, physical medicine and rehabilitation, respiratory therapy, nutrition and social work. Mid-day, we will have a panel of patients and caregivers to discuss challenges of living on home mechanical ventilation. The afternoon session will include hands on stations for clinicians to become accustomed to various devices commonly used in the outpatient setting including home ventilators, mechanical insufflation-exsufflation devices, and tracheostomy tubes.

This CME event targets any clinician involved in the care of patients on home ventilation, including physicians, advanced practice providers, nurses, respiratory therapists, nutritionists, and social workers. We also encourage engagement of patients and their caregivers.

Investigators: Philip Choi, MD, Internal Medicine, Medical School, Internal Medicine/Pulmonary & Critical Care

---

## Navigating Michigan's Legalization of Recreational Marijuana with Adolescent Patients: Effective Responses to a Rapidly Changing Landscape.



### Objective:

Data concerning the impact of recreational marijuana legalization on adolescent attitudes and marijuana use is scant, but emerging. Michigan medical and mental health providers and other youth-serving professionals along with adolescents and parents will be navigating this new landscape without a roadmap.

The Adolescent Health Initiative proposes to develop an innovative CME course on Navigating Michigan's Legalization of Recreational Marijuana with Adolescent Patients to address the uncertainties, best practices, and legal ramifications for minors and young adults around this topic. Sessions will include an overview of the new laws, the most recent research on the impact of marijuana use on the developing brain, as well as perspectives and experiences from professionals in states where marijuana is legalized, such as Colorado or Washington, where recreational marijuana has been legal since 2012. There will be an interactive session engaging adolescents about current forms of marijuana use, social norms, and what health messaging they find effective. Providers will leave with a set of actionable steps they can take to effectively address marijuana use with their patients.

Upon completion of the course, participants will be able to: -Identify key points from the most

recent research of the impact of marijuana use on the adolescent brain -State protections and limitations of the new recreational marijuana laws as they relate to minors and young adults  
-Identify the most common forms of marijuana that adolescents are using, including slang terminology -Outline effective harm reduction strategies to affect positive behavior change.

Investigators: Margaret (Maggie) Riley, MD, Associate Professor, Family Medicine

---

## 2019 Psychiatric Pharmacogenomics Course

Sagar Parikh, MD, Kristen Ward, PharmD, Amy Pasternak, PharmD, and Danielle Taubman, MPH, have designed an online pilot course to teach basic psychiatric pharmacogenomics (PGx), which involves using individual patient genetic findings to pick personalized psychiatric medications, particularly for depression treatment. Since PGx testing can improve patient outcomes and improve safety but is expensive, training is necessary to explain basic concepts and guide test ordering and proper utilization of results. An online course format will allow maximal dissemination opportunity, with 3 course offerings in 2019--once to Michigan Medicine providers, once to prescribers across the State of Michigan, and once to prescribers across the U.S. Each iteration of the course will run weekly for three 90-minute lessons. Lessons will be co-taught by a Depression Center clinician and a leading pharmacy expert. The course will be a constant flow between PGx principles and case examples and illustrations. Outcomes will be evaluated at different points in the course to determine its feasibility and effectiveness.

Investigators: Sagar Parikh, MD, Kristen Ward, PharmD, Amy Pasternak, PharmD, and Danielle Taubman, MPH.