2016 Innovation Award Recipients

Advanced Critical Care Life Support (ACCLS): A Practical, Multi-Disciplinary Collaborative Approach to Teaching and Skill Maintenance for Emergent Events in the ICU

The project Advanced Critical Care Life Support (ACCLS): A Practical, Multi-Disciplinary Collaborative Approach to Teaching and Skill Maintenance for Emergent Events in the ICU is designed to improve knowledge, preparedness, collaboration, and outcomes in the Trauma Burn ICU by providing a shared multidisciplinary experience of simulated, uncommon, life-threatening occurrence in the ICU. By obtaining knowledge and working on team dynamics, Attendings, Fellows, Residents, Nurses, Mid-level Health-Care Providers, TBICU staff, and Medical/Nursing Students will not only gain knowledge and improve communication between team members, but also help participants recognize possible barriers to effective and efficient care and help the team develop processes to best handle rare emergent events in the ICU in which they work. The process and outcomes of the project will be evaluated and results analyzed, presented and published. If successful, we plan to develop additional scenarios that can be utilized by other ICU teams.

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Nutrition, Physical Activity, and Preventive Medicine at Michigan

The overall objective of this CME activity is to provide granular didactic education pertaining to healthy nutrition and meal preparation, as well as health-related physical activity and exercise prescription. Participants attending the 2-day course will have an opportunity to:

1. Learn from renowned experts in the fields of Nutrition/Dietetics, Exercise Physiology, Public Health, Behavior Change, and Obesity/Metabolism, through research-based keynote lectures;
2. Engage with peers in small group discussions to design needs-analyses and behavior change plans for specific case-studies;
3. Participate in hands-on opportunities to plan, shop for, and prepare nutritious/delicious meals; and
4. Experience a battery of different physical activities and group exercise classes designed to improve health-related fitness.

The driving theme of this activity will be healthy lifestyle adoption for both physicians and their patients. This theme and overall mission of the activity are closely aligned with the priorities of the UMHS Departments of Pediatrics and Physical Medicine and Rehabilitation—both of which have a long, rich history in preventive medicine research and clinical care.
Engaging Academic and Community Partners: A Tumor Board-based Approach to Enhancing the Multidisciplinary Care of Patients with Brain Metastases and Leptomeningeal Disease

While the value of multidisciplinary care for cancer patients is undisputed, most efforts are centered on patients with a curable diagnosis, whereas comprehensive, multidimensional care involving all relevant specialties remains an unmet need for patients diagnosed with brain metastases and/or leptomeningeal disease. In our proposal entitled, “Engaging academic and community partners: a tumor board-based approach to enhancing the multidisciplinary care of patients with brain metastases and leptomeningeal disease,” we propose a novel CME activity using an interactive, tumor board-based format to enhance the multidisciplinary coordination of patients with brain metastases/leptomeningeal disease in the academic and community settings, to assess the practice patterns, unique needs and changes in practice of academic and community providers before and after this event, and to foster future partnerships with community sites and increase potential enrollment on interventional clinical trials. This effort uniquely stems from the University of Michigan Multidisciplinary Brain Metastases Working Group consisting of faculty from medical oncology, radiation oncology, neurosurgery, neuro-oncology, physical rehabilitation and neuroimaging that seeks to advance the treatment of this patient population through collaborative research efforts leading to improved patient outcomes.

Developments in Ureteroscopic Stone Treatment (DUST) Course

On April 15th, the Department of Urology hosted the 2nd annual D.U.S.T. course – the only CME course in the world where participants are taught the science, rationale and technique of the Dusting approach to endoscopic laser stone surgery. “Dusting” utilizes the capabilities of high-power holmium lasers to pulverize stones into fine powder. Held in the Clinical Simulation Center, advances in technique are explored through practical laser demonstrations in bench models. Participants also got to use the new single use (disposable) digital ureteroscope – the first time urologists in the United States were able to road-test this device. Didactic lectures, roundtable discussion of cases, and review of procedural videos by experienced faculty, aimed to provide a comprehensive learning experience in the minimally invasive management of kidney stones. On the day we had over 50 participants from throughout the country, as well as one attendee from the United Arab Emirates! We also had a superb guest speaker—Dr Bodo Knudsen, Associate Professor of Urology at Ohio State University—a renowned endourologist known for his research on laser fibers for stone surgery.

2016 ePsychopharmacology Course for Psychiatrists

In 2016, Dr. Sagar Parikh from the Depression Center and Dr. Jolene Bostwick from the College of Pharmacy developed and delivered a pilot videoconference-based course on advanced psychopharmacology. Specific goals included determining whether learners would engage and whether the technology would work well. Additional aims included providing guideline-concordant psychopharmacology training, enhancing patient safety, and fostering case discussion. Nineteen participants enrolled and each of the six weekly sessions was taught by a facilitator and a speaker. Every class incorporated a one-hour interactive didactic presentation, followed by one hour for case reviews. Topics included six major psychiatric disorders, managing key drug interactions, and pharmacogenomics. Three types of online self-report evaluations were conducted. This course provided preliminary evidence that an online, live longitudinal course in psychopharmacology is both
acceptable and effective, as published in the journal *Academic Psychiatry* in 2019. The course will serve as a model for future online CME courses aimed at both specialist and primary care providers.