CENTER FOR
HEALTHCARE ENGINEERING & PATIENT SAFETY
UNIVERSITY OF MICHIGAN

Providing Better Healthcare Through Systems Engineering: Seminars and Discussions

Applying Systems Engineering to Ensure Military Readiness and Health

Katie Esper, MPH, MHCDS

Monday October 28 at 4:30PM in 1123 LBME

The US Military Health System (MHS) is a unique federal health care system with a critical mission: ensuring that America's military personnel are healthy; maintaining a ready medical force in support of operational forces around the world; and delivering a medical benefit to approximately 9.5 million beneficiaries. Warfighter medical readiness is critical to the success of operational missions and requires the application of systems engineering to dramatically improve the health and health care of service members by optimizing care in operational settings and supporting sustainment of the warfighter and medical force. By promoting data-driven decision making, removing sources of unwarranted variation in care, and safely integrating technology through trans-disciplinary teams, systems engineering is improving warfighter readiness and survivability in both peacetime and wartime.

Katie Esper joined the Johns Hopkins University Applied Physics Laboratory (JHU/APL) in 2010 as a health systems engineer after a few years with a healthcare software company. She has worked directly with the military health system implementing multi-site healthcare delivery initiatives and data driven management systems. Katie's interests are in population need assessments, practice variation studies, and system design for enterprise wide application. Katie is currently the Program Manager of Force Health and Readiness, overseeing the mission of ensuring a ready medical force, a medically ready force, and the delivery of safe reliable care across all operational settings. In this position, Katie is a strategic thought partner for military leaders and oversees a Warfighter Readiness Performance Improvement portfolio of work.

Katie holds a Bachelor's degree in Industrial and Operations Engineering from the University of Michigan, a Master's of Public Health from Johns Hopkins Bloomberg School of Public Health (with a focus in Quality, Patient Safety, and Outcomes Research), and a Master's in Healthcare Delivery Science from Dartmouth College.

1123 LBME is room 1123 in the Ann & Robert H. Lurie Biomedical Engineering Building (LBME). The street address is 1101 Beal Avenue. A map and directions are available at: http://www.bme.umich.edu/about/directions.php.

This seminar series is presented by the U-M Center for Healthcare Engineering and Patient Safety (CHEPS): Our mission is to improve the safety and quality of healthcare delivery through a multi-disciplinary, systems-engineering approach.

For additional information and to be added to the weekly e-mail for the series, please contact genehkim@umich.edu.

Photographs and video taken at this event may be used to promote CHEPS, College of Engineering, and the University.