

Care Management Plus

Faculty: David Dorr, MD

Care Management Plus focuses on understanding how data, information, and knowledge can improve the health and well-being of our most vulnerable populations, including older adults and those with multiple chronic conditions. Working with this team might include focusing on risk stratification, predictive analytics, or studying models of care intended to improve coordination and management of high needs patients.

Understanding the Role of the Microbiome in Bladder Health

Faculty: Lisa Karstens, PhD

Understanding the role of the microbiome in bladder health. The overall goal of this research is to understand how the microbiomes of the gut, vagina, and bladder contribute to bladder health and overactive bladder symptoms. Intern projects include developing, testing, and improving the pipelines for handling the clinical data associated with these projects (using REDCap), and bioinformatic pipelines for handling 16S rRNA gene sequencing data as well as NMR metabolomics data (primarily in R). The projects will provide experience of analysis and biological interpretation of so-called 'big data' that arises from the rich and complex datasets generated by high throughput techniques used in basic research. Excellent record-keeping skills and self-motivation are essential. Some familiarity with programming and statistical analysis are preferred but not essential.

Organizing evidence on Prehospital Care for Traumatic Brain Injury

Faculty: Annette Totten, PhD

Help review, finalize and organize research studies on the care of people with severe brain injuries on the scene and when they are transported to the hospital. This will be used to revise guidelines for emergency medical services.

Develop engagement materials for primary care practices participating in a large trial of Advance Care Planning

Faculty: Annette Totten, PhD

41 practices in the US and Canada are part of a randomized trial of different models of planning for serious illness care. This project will develop materials to help practices communicate to their patients and their communities about this trial.