INNOVATION AND IMPLEMENTATION SCIENCE INITIATIVE (IISI)

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Industry Sector(s): Healthcare
Product Category: Specialized Health Services

Opportunity Overview

The IISI exists to promote and foster an effective partnership and knowledge exchange among our health services researchers, implementation scientists, clinicians, educators, and health care administrators to rapidly transform our health care delivery system into a high quality, patient-centered, cost-efficient, sustainable and highly adaptive system.

Markets & Applications

Traditional research mechanisms and research-based institutions are ill-suited to meet the American health care system’s crisis of high cost and low quality care because they have progressed too slowly and are not sensitive to the constantly changing health care delivery landscape. Our school needs a different approach in order to produce successful, sustainable, responsive, and innovative health care delivery solutions and models of care that will emerge in a timely manner. We need to master the new field of implementation science that uses a system-based approach to care delivery, develop well diversified teams to discover solutions, see the health care system through the lens of a complex adaptive system, and utilize dynamic and up-to-date feedback data to guide progress, as well as intellectual property to spread innovations and improve the quality of care delivered across the continuum.

Mastering these key principles will create value for our patients, the communities served, health care delivery systems and the research community by producing a return on investment and increasing the number of funding sources available.

Competitive Advantage/Value Propositions

Indiana University School of Medicine and its partner organizations such as the Regenstrief Institute, Wishard Health Services, and IU Health have a world class health services research and biomedical informatics infrastructure and human capital. Indiana Network for Patient Care (INPC©), Regenstrief Medical Record Systems (RMRS©), Practice Based Research Network (ResNet), Child Health Improvement through Computer Automation software (CHICA©), enhanced Medical Record for Aging Brain Care software (eMR-ABC©), and the Healthy Aging Brain Center are a few examples.

However, the current available infrastructure needs capacity expansion, supports primarily investigator initiated research projects, and is not set up for a rapid translation and implementation of health care delivery solutions to meet the needs of its health care services partners such as IU Health and Wishard Health Services. Thus, creating a new institute to support and foster the growth of innovative interdisciplinary implementation teams is crucial and fundamental to take advantage of the opportunities afforded by PCORI and CMS to encourage health care redesign. This institute will create a bidirectional highway among the health care system team and the health services research team and therefore creates a WIN-WIN opportunities for both teams.
Malaz Boustani, MD, MPH  
Dr. Boustani is a geriatrician and Paul B. Beeson Scholar who commands the languages of “Aging Brain” clinical research, pharmacoepidemiology, medical informatics, and implementation science. Dr. Boustani is the co-founder of the Healthy Aging Brain Center at Wishard, the Associate Director of the Indiana University Center for Aging Research, the Director of the Indianapolis Discovery Network for Dementia, and the Founding Director of the Innovation and Implementation Science Initiative at Indiana University School of Medicine. Dr. Boustani is one of the recipients of the 2012 Health Care Innovation Challenge from the Center for Medicare and Medicaid Innovation and he is the PI of various Innovative majors grants (R01s) from the NIH and AHRQ research studies such as the Indy CHOICE study a randomized dementia screening trial; the COMET-AD a randomized comparative effectiveness trial of various anti-dementia drugs; and the PMD trial investigating the effectiveness of multicomponent intervention to reduce delirium severity in the intensive care units. He is the founding developer of the eMR-ABC a web-based population health management software and the Healthy Aging Brain Care Monitor. He worked with Dr. Callahan on the AHRQ-funded Randomized Clinical Trial that demonstrated the efficacy of the Collaborative Dementia Care Program in primary care. Dr. Boustani is considered the national expert on dementia and delirium care and is currently the President of the American Delirium Society.

Nadia M. Adams, MHA  
Nadia Adams is the Program Manager for the Innovation and Implementation Science Initiative (IISI). This initiative focuses on bridging the gap between research and care delivery. The work that has been accomplished through the Aging Brain Care program is a prime example of how innovation and implementation science was used to take Alzheimer’s and dementia research to the next level. By using implementation science, the ABC team implemented innovative, evidence-based programs and practices (EBP) into the real world, and has demonstrated increased quality, better health and better care, as well as significant cost savings.

Ms. Adams has had a variety of experiences in healthcare delivery, including roles within an academic healthcare system and for-profit hospital system. Most recently, she worked at the system level in Quality and Safety for a nineteen hospital healthcare system, focusing on improving inpatient efficiencies. By using her background in healthcare delivery, coupled with implementation science knowledge, her responsibilities will be to ignite innovation and spread the use of implementation science across multiple healthcare systems.

Ms. Adams received a Master of Healthcare Administration from Indiana University. She also obtained a Bachelor of Public Health with a concentration in Healthcare Administration and Business from Indiana University.

Development Plans/Needs

1. CMS is investing in the ABC programs locally at Wishard Health Services to see if these models of care can become the foundation guiding the nation to sustain and improve the care that is being delivered to the aging population.

2. We are seeking funding to become the Research and Development arm of IU Health and Wishard Health Services.