

patient findings and inform the development of the provider aspect of a communication intervention centered on designing educational materials for women with various health literacy levels within the patient-centered cancer communication process. **DISCUSSION/SIGNIFICANCE OF IMPACT:** Detecting the usefulness of cancer educational materials, as perceived by young women with breast cancer, is foundational to developing communication interventions that improve cancer outcomes. This study will identify how materials can be improved in the critical informational-exchange component of the patient-communication process.

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### **An interactive, online Research Education Hub built with a standard Learning Management System focused of education and career development for students, postdocs, faculty, and research staff**

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**OBJECTIVES/GOALS:** The University of Rochester CTSI Research Education Hub is designed to: 1) connect the local research community with essential internal and external educational resources; 2) create a community of inquiry and collaboration across the translational science workforce pipeline within the university. **METHODS/STUDY POPULATION:** The Research Education Hub (RE-Hub) utilizes the university's widely used Learning Management System (LMS), Blackboard, and accessible to anyone at the university with a BlackBoard account. The RE-Hub greets users with an overview, an introduction of key local faculty experts in relevant research methodologies, and links to institutional research programs and helpdesks. Users are provided with curated educational resources organized by topic areas including, but not limited to, research methodology, statistical analysis, and grantsmanship. Discussion boards were created for users to ask general research questions and to connect with others in the translational research community. **RESULTS/ANTICIPATED RESULTS:** The RE-Hub was designed in Fall 2019 with the purpose of increasing utilization of university resources, including workshops, seminars, methods forums and consultation resources to improve translational science at the university. The RE-Hub was designed to be flexible and responsive to the changing needs of the local research community. User feedback will be used to identify improvements in the organization and content of the RE-Hub. Future improvements will include additional topic areas that span translational competencies, additional materials added to existing topic areas, and facilitation of better collaboration and integration of career development programs and grantsmanship resources. **DISCUSSION/SIGNIFICANCE OF IMPACT:** The Research Education Hub provides the University of Rochester translational science research community with a space to explore educational resources, to interact with colleagues and ask research related questions, and to help develop and/or improve other educational programs at the university.

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### **Are nurses' attitudes toward caring for hospitalized adults with intellectual disabilities associated with nurse and nursing unit characteristics?**

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**OBJECTIVES/GOALS:** (1) Determine nurse (age, education level, years of experience, ID education/training, contact with people with

ID, communication apprehension, beliefs about patient quality of life), and nursing unit (teamwork, staffing and resources, person-centered care) characteristics that are associated with and predictive of nurses' attitudes, positive emotions, and negative emotions toward caring for adults with ID. (2) Explore nurses' perspectives of perceived barriers and facilitators to providing nursing care to hospitalized persons with ID and medical comorbidity, and how nursing care differs when caring for a person with ID. **METHODS/STUDY POPULATION:** This mixed methods nested analysis will employ an internet survey of medical-surgical registered nurses to collect nurses' attitudes and emotions toward caring for hospitalized persons with ID and medical comorbidity, nurse characteristics, and nursing unit characteristics. We intend to recruit 150 medical surgical nurses currently practicing in the United States via email invitation to the membership of the Academy of Medical Surgical Nurses. Purposeful maximum variation sampling will be used to invite a subset of respondents for qualitative, semi-structured telephone interviews to elicit barriers and facilitators to nursing care of persons with ID and how nursing care differs when caring for persons with ID. **RESULTS/ANTICIPATED RESULTS:** We hypothesize that lower nurse education level, fewer years of experience, less ID education/training, lower amount of contact with people with ID, increased communication apprehension, and lower beliefs about the quality of life of persons with ID will be associated with negative nurse attitudes and emotions toward caring for people with ID. Further, we hypothesize that lower levels of nursing unit teamwork, staffing and resources, and person-centered care practices will be associated with negative nurse attitudes and emotions toward caring for people with ID. **DISCUSSION/SIGNIFICANCE OF IMPACT:** The proposed research is an important first step in determining potential nurse and nursing unit factors influencing nurses' attitudes toward caring for people with ID. It will lead to targeted interventions to enhance nursing care quality and reduce hospital-associated healthcare disparities among people hospitalized with intellectual disabilities and medical comorbidities.

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### **Building a Translational Science pipeline: The Indiana CTSI STEM K-12 Program**

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**OBJECTIVES/GOALS:**

- Develop strong network of science teachers interested in promoting scientific research to their students.
- Place students in an immersive summer research internship that, when possible, matches their career interests.
- Expose students to the numerous career paths within the STEM field.