

greatest benefit. **DISCUSSION/SIGNIFICANCE OF IMPACT:** In September 2017, CTSI launched a new web-based training tool exclusively for University of Minnesota clinical research professionals who work with human participants, and their supervisors. The Human Research Training Web site is a free, easy-to-use tool to help identify and maintain the appropriate training, certification, credentials, and immunizations needed to perform University of Minnesota research with human participants. The Web site offers the University's first systematic way to identify which research training is necessary for each research professional, and a system to track and maintain training compliance. Training records and information from the University of Minnesota's central databases are securely integrated into this tool. Our Web site tool enhances research compliance. Any given study team member's training requirements vary based on several criteria such as: role at the University, role on the research study, type of funding, population being studied and responsibilities/duties on the research study. The research training Web site generates required and optional training based on individuals' responses to these questions. This Web site also links to the training, which decreases error in taking the wrong training. Furthermore, it provides completion data for research training and is a repository for vital study information such as: medical licenses, CVs, and credentials. Supervisors are able to view training and credentials. They are alerted when one of their employee's licenses or certificates are about to expire. Uses-to-date and evaluation feedback have informed the need for a second phase of Web site enhancements. This site will reside in both the CTSI Web site and the HRPP Web site. A link will be sent to all new University research employees upon hiring. The Human Research Training Web site will likely have applicability to other universities in addition to the University of Minnesota.

2015

### Behavioral clinical trials: Considerations for design and conduct using the new NIH study protocol template

Susan L. Murphy, Nancy Yovetich and Melissa Riddle

University of Michigan School of Medicine

**OBJECTIVES/SPECIFIC AIMS:** (1) To discuss key differences of behavioral clinical trials from trials involving drugs, devices, and biologics and (2) to discuss NIH efforts to provide a study protocol template for use by investigators conducting behavioral clinical trials. **METHODS/STUDY POPULATION:** A working group was convened by NIH to refine the commonly used protocol template required for investigators conducting Phase 2 or 3 NIH-funded clinical trials. The committee met by phone regularly for 4 months to review, discuss, and refine each section of the template as needed to include aspects relevant to behavioral trials. **RESULTS/ANTICIPATED RESULTS:** The behavioral trial protocol template draft has been created and is being further modified by feedback from the research community. **DISCUSSION/SIGNIFICANCE OF IMPACT:** Use of the NIH behavioral trial protocol template is expected to enhance the quality of any behavioral study, because the template and supporting materials were developed with the unique aspects of behavioral research in mind.

2174

### Building the next generation of translational researchers in health disparities

Carlamarie Noboa, Zulmarie de Pedro-Serbia, Lourdes E. Soto de Laurido and Aracelis H. Chardon

University of Puerto Rico-Medical Sciences Campus

**OBJECTIVES/SPECIFIC AIMS:** Translational research involves researchers' teams working together to address health issues. However, successful translational researchers in health disparities require a set of competencies and skills. In order to increase the number of new minority investigators in translational research focused on health disparities, the Hispanics-in-Research Capability: SoHP & SoM Partnership and the Puerto Rico Clinical and Translational Research Consortium designed and implemented a webinar series "Fostering the Next Generation of Researchers in Health Disparities." **METHODS/STUDY POPULATION:** From March 31 to July 14, 2017, this webinar series offered the theoretical perspectives of health disparities, research methodology specific to its study, and intervention strategies to address health disparities in communities through minority investigators. National and local interdisciplinary experts were the presenters. Participants' experience and impact were assessed through a self-administrated

questionnaire. **RESULTS/ANTICIPATED RESULTS:** A total of 78 minority investigators participated in this webinar. Overall, participants indicated that the webinar improved their knowledge and skills about health disparities research. **DISCUSSION/SIGNIFICANCE OF IMPACT:** Results guide the programs actions plans to enhance and support the translational researchers' capacity. Diverse capacity building initiatives including peer-to-peer education, online course, tailored coaching, and other interventions have been designed to address researchers' needs. This webinar was a pathway to build the next generation of translational researchers in health disparities.

2140

### Clinical and translational research (CTR) platform for undergraduate health sciences programs (UHSP) at University of Puerto Rico-Medical Sciences Campus (UPR-MSC) and Universidad Central del Caribe (UCC): Pipeline for students and faculty

Rubén G. García<sup>1</sup>, Margarita Irizarry-Ramírez<sup>1</sup>, Efraín F. Rivera<sup>1</sup>, Carlamarie Noboa<sup>1</sup>, José Moscoso-Álvarez<sup>2</sup>, María E. González-Méndez<sup>1</sup> and Mildred I. R. Vázquez<sup>1</sup>

<sup>1</sup> University of Puerto Rico-Medical Sciences Campus; <sup>2</sup> Title V Cooperative MSC-UCC

**OBJECTIVES/SPECIFIC AIMS:** The University of Puerto Rico-Medical Sciences Campus and Universidad Central del Caribe, through the Title V Cooperative Project, devised a clinical and translational research (CTR) platform to pipeline students/faculty of undergraduate health sciences programs into CTR. Educational interventions in CTR—introductory intervention (II) and Annual Symposium (AS)—were designed to promote awareness, stimulate interest of students and faculty in CTR. **METHODS/STUDY POPULATION:** In the II the participants (n = 159) were surveyed before and after a presentation and panel discussion about CTR. In addition, after the sessions—plenary, panel, and workshop—about CTR, the participants of AS (n = 42) were surveyed for satisfaction and learning experience in CTR. **RESULTS/ANTICIPATED RESULTS:** Most participants of the II, 134 (84.3%) were students. In total, 58 (58, 36.5%) completed the post II survey. Of these, 53.4% satisfactorily defined the CTR concept Versus only 31.0% that could define CTR in the pre survey, 47 (81.7%) were unable to identify a CTR researcher and 45 (78.3 %) expressed interest in learning about CTR. In total, 28 (28, 66.7%) participants of the AS completed the satisfaction survey, out of which 17 (60.6%) were students. One hundred percent (100%) agreed that the AS served as a vehicle to increase their knowledge in CTR. **DISCUSSION/SIGNIFICANCE OF IMPACT:** The educational interventions demonstrated to be an effective strategy to promote awareness and stimulate interest of students and faculty in CTR. In addition, the results obtained, provided valuable baseline information for the planning—development of training cycles in CTR.

2199

### Critical and creative thinking course: Fundamental for a junior researcher

Lourdes E. Soto de Laurido, Marie K. Norman and Doris Rubio

University of Puerto Rico-Medical Sciences Campus

**OBJECTIVES/SPECIFIC AIMS:** Explain the difference between creative and critical thinking. Practice and enhance the critical thinking skills. Display innovative thinking through creative solutions and insights. Critically evaluate evidence in research. Think imaginatively, actively seeking out new points of view. **METHODS/STUDY POPULATION:** Offer an online course in Critical and Creative Thinking to junior researchers to improve their capacity to think and transforms their ideas in research questions and aims that bring new option to the field of clinical and translational research. Evaluate their improvement through evaluation forms and exercises that show their process to think imaginatively. **RESULTS/ANTICIPATED RESULTS:** The Scholars will understood the importance of critical and creative thinking in their careers, believed they could apply the insights and knowledge from the course in their grant and paper writing, recognized that they don't always consider if they are being critical or creative in their thinking and actions. **DISCUSSION/SIGNIFICANCE OF IMPACT:** The course helped the participants to improve their capacity to think and saw a need to develop a more systematic thought processes in their life and work. The junior research will understand the difference between opinion, reasoned, judgment and fact and they will be able to judge the credibility of an information source using criteria such as authorship, currency and potential bias that can improve their grant submission and scientific writing skills.