

Building a National Network for Collaborative Quantitative Staff

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OBJECTIVES/GOALS: Quantitative Staff are an essential workforce for biomedical research. While faculty can engage with peers locally and through national organizations, similar opportunities are limited for staff and often do not meet their unique needs and interests. Creating a professional community is valuable for supporting and developing this workforce. **METHODS/STUDY POPULATION:** We established the Quantitative Scientific Staff National Network (QS2N2) with the mission to provide professional development and networking opportunities, and to serve as an information resource and advocate through the fostering of community among staff quantitative analysts at any career stage. The initial membership outreach was to all Biostatistics, Epidemiology, and Research Design (BERD) programs through members of ACTS BERD Special Interest Group (SIG). We created a Leadership Team and an Advisory Board consisting of staff and faculty biostatisticians with experience working as or managing staff to govern the network. A Core Planning Committee consisting of 15 members guides planning, implementation, and execution of network activities as operationalized through subcommittees. **RESULTS/ANTICIPATED RESULTS:** The network currently has 131 members from over 30 health science institutions. Subcommittees focused on Education and Training, Membership, Communication and Web Development, and Mentoring were created and are developing events, programs and infrastructure to further the network's mission. Network events such as webinars will be offered quarterly; with our first event planned for Nov 3rd. Expansion and maturation of QS2N2 will be done through regular remote meetings where members can connect with peers at other institutions, engage in career development activities, and attend technical seminars. Additional membership outreach will seek to connect with staff in government and private sectors. **DISCUSSION/SIGNIFICANCE:** Knowledgeable, highly skilled collaborative analysts (e.g., biostatisticians, data scientists) are an essential workforce in clinical and translational science and health research centers. The QS2N2 will support professional development, engagement and growth of this critical workforce which is necessary to advance quality research.

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Good Clinical Practice training assignment and tracking completions improvement project

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OBJECTIVES/GOALS: We will reduce the number of research staff by 50% within 6 months that are non-compliant with completing the Good Clinical Practice (GCP) course without increasing costs as measured by salary and benefits for staff involved in the tracking and assignment process. We will also introduce a GCP policy to

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define the education requirements for GCP training **METHODS/STUDY POPULATION:** We touted focus groups to stakeholders for input on workflows with graphs, surveys, and meetings in the onset and throughout the project. This input prompted us to develop a staff guide outlining the modification process of removing a staff name from an IRB trial if they are no longer active in the trial. A workflow and root cause analysis were done resulting in the implementation of one gatekeeper for assigning and tracking completions, instead of three staff. Successfully reconciling the non-compliant report, which extracted data from three databases, allowed us to eliminate 174 names from the report, which originally comprised 792 names. IRB modifications were entered into the IRB system for these 174 names. We also put into effect a GCP policy for the institution, where none had previously existed. **RESULTS/ANTICIPATED RESULTS:** * In 3.5 months, we decreased the GCP non-compliance rate by 50% from 792 to 399. * We removed 22% of names from the 792 from the report due to their status of being non-employees, or Emeritus, or not in research anymore. * We discovered a data type issue in the non-compliance report that shuffled the MAX calculation, therefore not requiring some staff to complete the training. * We developed a new process for assigning training, resulting in faster compliance rates for the institution. It included sending emails to users two months before their training expired before we assigned the course to them. * We reconciled the non-compliance report, and it decreased the effort with staff involved in GCP for grant renewals and audits in numerous other departments. * Developed an escalation procedure for non-compliant staff. **DISCUSSION/SIGNIFICANCE:** Failure to address our GCP non-compliance rates could have put our institution at risk for potential penalties. With 4400+ research personnel listed on active trials the interventions we implemented accelerated our compliance rate by assigning the refresher course monthly and this also resulted in no disruption to staff completing the training.

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Peer Caregiver Navigation for Hospice Caregivers of Cancer Patients: A Feasibility Study

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OBJECTIVES/GOALS: To evaluate the feasibility, acceptability, and appropriateness of a 1:1 peer-delivered psychosocial support intervention to family caregivers of hospice patients with cancer, and determine a range of potential effects of the intervention on psychological distress symptoms and perceptions of the caregiving experience. **METHODS/STUDY POPULATION:** Quantitative and qualitative data were collected from hospice caregivers of cancer patients who participated in a non-controlled pilot feasibility trial of a 1:1, peer-delivered psychosocial intervention called Peer Caregiver Navigation (PCN). The purpose of this study was to evaluate the feasibility, acceptability, and appropriateness of delivering PCN to hospice family caregivers of cancer patients, and to determine a range of potential effects of PCN on caregivers' anxiety symptoms, depressive symptoms, self-efficacy, and benefit

finding. Qualitative data were analyzed using deductive thematic analysis. For our study outcomes, we used both parametric and non-parametric t-tests to examine mean differences between outcomes at baseline and midpoint, and baseline and endpoint. RESULTS/ANTICIPATED RESULTS: The findings demonstrate that Peer Caregiver Navigation (PCN) is acceptable, appropriate, and feasible to deliver to hospice family caregivers of cancer patients. Appropriateness of our selected target outcomes was determined by confirming expected measurement change in depressive symptoms (lower), anxiety symptoms (lower), benefit finding (higher), and self-efficacy (higher). Exit interviews revealed that participants responded favorably to our selected measures for these outcomes and to our data collection time intervals. Moreover, recruitment and consenting processes, survey completion rates, and attrition outcomes (i.e., study exit due to active withdrawal vs. patient death) were analyzed to inform recruitment and retention feasibility for future studies. DISCUSSION/SIGNIFICANCE: Peer Caregiver Navigation (PCN) was determined to be feasible, acceptable, and appropriate to hospice family caregivers of patients with cancer. Moreover, PCN has the potential to improve caregivers' symptoms of psychological distress by providing them much needed psychoeducation, coping skills training, and emotional support.

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Training in Responsible Conduct of Research: Evolution over 12 years

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OBJECTIVES/GOALS: We developed institution-wide RCR training to include all required elements; support trainees to identify key ethical questions that arise in research; and to identify methods to identify a solution; and disseminate results. METHODS/STUDY POPULATION: In 2011, we participated in developing an experimental model of RCR training led by the University of Michigan. We continue to offer this training model to career development awardees in clinical and translational research at OHSU across the institution. Interactive discussion in faculty and trainee groups includes responsibilities of a researcher and a systematic process to address real world research ethics issues. Each participant identifies a key research issue they have encountered and presents a poster at the final session. We have tracked post-training assessment of participant confidence in ethical decision making and in the range of topics identified by participants. RESULTS/ANTICIPATED RESULTS: Since 2012, 227 scholars and trainees have participated in the program with 44 faculty mentors facilitating. We will describe the current curriculum as it has evolved over the past 12 years, presenting trainees with an approach to identify ethical challenges that arise in their research and identify approaches to find a practical solution. We will report on the specific challenges in research ethics identified by participants over this period and how they have evolved. We will also present pre- and post-training data about confidence in ethical decision making. DISCUSSION/SIGNIFICANCE: This approach to RCR training is well-received, has evolved over time, and has led to dissemination. Success is attributed to allowing choice in topics relevant to trainees and practicality of the stepwise approach that is transferable to any situation.

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Knowledge and Implementation of Tobacco Control Practices in Rural Louisiana Community Health Centers

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OBJECTIVES/GOALS: Tobacco use remains a significant public health problem in rural America. Community health centers (CHCs) can help reduce the burden of tobacco use in rural areas, but we know little about their knowledge and implementation of best practices for tobacco control. This study assessed the knowledge and existence of tobacco control practices in rural CHCs. METHODS/STUDY POPULATION: Using a cross-sectional study design, we electronically surveyed health administrators and providers (n=64) in six rural CHCs in Louisiana between March 2021 and June 2023. The assessment measured 1) knowledge of the U.S. Public Health Service Clinical Practice Guideline for Treating Tobacco Use, 2) the priority given to smoking cessation programming, 3) the presence of best practices for tobacco control programming, such as having a tobacco control champion and team, 4) establishment of treatment and smoke-free campus policies, and 5) existence of referral procedure to external cessation services. We used descriptive statistics to characterize survey participants and responses. RESULTS/ANTICIPATED RESULTS: Most of the respondents were female (80%), White (61.8%), between 35 and 49 years of age (48.1%), and non-smokers (72.7%). Only half (51.6%) reported knowledge of the guideline for treating tobacco use among all respondents. Only a third (32.8%) said their health center gave smoking cessation high priority relative to other health priorities. Only a third (35.9%) reported having a tobacco champion; less than a fifth (18.8%) said they had a tobacco control team at their health center. Although all health centers had a smoke-free campus policy, about a quarter (23.4%) were unaware of the policy. Less than a quarter (23.4%) reported having a written policy for smoking cessation treatment at their health center, and less than half (46.7%) knew about cessation services to which they could refer patients. DISCUSSION/SIGNIFICANCE: Rural CHCs had limited knowledge of the guideline for tobacco use treatment. Smoking cessation lacked priority, and the prevalence of tobacco control best practices implementation was low. Rural CHCs must improve their implementation of guideline-recommend policies and clinical strategies to promote treatment and reduce the burden of tobacco use.

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Predicting Success: A Mixed Model of KL2 Trainee Profiles and Outcomes

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OBJECTIVES/GOALS: Penn State CTSI supports KL2 career development awards for faculty seeking to become leaders in clinical and translational research. CTSAs can benefit from a better understanding of KL2 applicant profiles and trainee outcomes. Predictive modeling of KL2 records provides insights into institutional processes and continuous improvement goals. METHODS/STUDY