

may lead to higher levels of negative emotional or mental health conditions in comparison to their urban counterparts. This study will also attune to the extent to which their work, specifically as HCP in rural settings – as a SDOH – affects their mental health status. **DISCUSSION/SIGNIFICANCE OF IMPACT:** This research contributes to the literature on global health by examining HCP in relation to rurality and in resource-limited settings in the Global North. This will expand the current global health discourse beyond the Global South and bring much needed attention to the health and well-being of communities in the Global North.

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Purposeful partnering: Creating a regional partnership to enrich team science training for early-career investigators at two academic institutions

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OBJECTIVES/GOALS: Given the close proximity of two academic institutions with CTSAs, we piloted distinct training topics – psychological safety and evaluation of opportunities – with K and T scholars at both academic hubs. Each topic was originally developed and delivered by one of the partnering hubs, allowing for cross-institutional sharing of expertise. **METHODS/STUDY POPULATION:** The team science educators at both institutions had a series of conference calls to share information about the types of professional development activities offered to early-career investigators at respective institutions. Each group then agreed to offer a new workshop at the partner institution. Team 1 presented “Should I Join This Research Team? Strategically Evaluating a New Teaming Opportunity,” while Team 2 presented “Promoting a Positive Culture in Teams.” Our instructional goal was to deliver skills-based training that addressed opportunities and challenges unique to research teams. Each session incorporated interactive methods, including scenario analysis and discussion, think-pair-share activities, and short video clips. **RESULTS/ANTICIPATED RESULTS:** Likert-scale items and open responses will be completed by workshop participants before and after participating in the workshops. Attendees will evaluate their confidence in their perceived abilities related to workshop objectives and their perceptions of the utility and application of the content. In addition to the trainee evaluations, the two institutional teams completed a joint qualitative interview to provide feedback, discuss andragogical strategies to improve educational delivery and impact, and assess how to leverage the expertise of each team to provide future team science programming across the two institutions. Given that the workshops are scheduled to be completed by November 2025, the results will be collated and shared at

the Translational Science 2026 conference. **DISCUSSION/SIGNIFICANCE OF IMPACT:** We believe partnerships can work in a variety of settings and with multiple topics to enrich the experiences of both early-career investigators and team science educators at partnering hubs. The collaboration also promotes sharing of expertise, content, and resources across institutions which expands educational content across CTSAs.

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Integrated clinical and research ensemble program: A team science-based approach to optimizing collaboration, innovation, productivity, and cost savings while utilizing a novel funding mechanism

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OBJECTIVES/GOALS: In 2019, we began a novel team-science based research program aimed at producing more clinically relevant and practical patient-focused solutions, more quickly and efficiently. **METHODS/STUDY POPULATION:** We created a novel funding opportunity requiring broad multidisciplinary team participation, including patients, community members, and health system representatives. Inclusion of these non-traditional team members was required to help transcend long-standing research silos. Teams collaborated using team science principles. Successful teams were awarded a \$50K “line of credit,” limited to pre-approved expenditures for supplies, services, and staff – no salary support for research faculty. Teams were granted project manager support. Grant budgets were not required, and there were no project end dates. We tracked several research metrics to determine if this less restrictive funding mechanism led to more collaboration, efficiency, innovation, and productivity. **RESULTS/ANTICIPATED RESULTS:** From 2019 to 2024, 68 teams submitted proposals, and 29 teams were approved to receive a line of credit. Collectively, these teams submitted 43 extramural and intramural grant applications; of these, 11 applications were awarded, totaling \$15M. The average time to first grant submission for teams was 20.4 months, and the average time to first grant award start date was 33.8 months. The teams produced 69 total peer-reviewed publications, with an average time to first publication of 15.6 months. A comparison of publication rates found that team members, on average, experienced a 72% increase in monthly publication rates after teams were formed and funded. An analysis of output (return on investment) found that every dollar invested in these funded teams delivered \$21 in new grant funding. **DISCUSSION/SIGNIFICANCE OF IMPACT:** This novel funding mechanism, created at the Clinical and Translation Science Institute of Southeast Wisconsin, may facilitate increased productivity, conservation of research dollars, and broader multidisciplinary collaboration that leads to practical, effective, real-world patient solutions. Continued analysis of outcomes is planned.