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*Researcher well-being: What do researchers say they need now?

Michelle Lamere¹, Mary Jo Kreitzer², Sara Poplau³, Allyson Hart⁴, Mark Linzer⁴, Erin Sullivan⁵ and Warren McKinney⁶

¹University of Minnesota; ²Earl E. Bakken Center for Spirituality & Healing University of Minnesota; ³Hennepin Healthcare; ⁴Hennepin Healthcare and University of Minnesota; ⁵Suffolk University, Sawyer School of Business and ⁶Hennepin Healthcare Research Institute

OBJECTIVES/GOALS: Assess wellbeing and burnout among CTSI and affiliate scholars by deeply listening to stressors, supports, and sources of hope via Listening Circles, which served as both a therapeutic intervention and a tool for gathering qualitative data. **METHODS/STUDY POPULATION:** Listening Circles are facilitated group dialogues eliciting participants' lived experiences, emotions, and perspectives in an environment that offers psychological safety. Listening Circles were conducted with five CTSI scholar groups (K, T, affiliates) to collect qualitative data and offer therapeutic support. Programs scheduled 60-minute voluntary sessions held via Zoom or in person. Program directors and staff did not attend. Sessions were recorded, and facilitators monitored both discussion and chat. Guidelines were shared in advance and reiterated during sessions. Participants were informed of recording and assured only de-identified, aggregate data would be used. Data were analyzed using inductive and deductive thematic methods by trained qualitative analysts. **RESULTS/ANTICIPATED RESULTS:** Listening Circles revealed 4 themes: 1) Needs: stability (financial and career), fewer nonessential tasks, time for breaks, opportunities for connection, collaboration, and collegiality, and support for wellbeing, compassion, joy, and permission to care for oneself; 2) Sources of support: connecting with family, friends, colleagues, community, taking breaks, disconnecting from work, and engaging in non-work activity; 3) Resources: Financial support, reducing unnecessary workload, opportunities for connection, and access to well-being resources; and 4) Sources of hope: Family, community, small victories and positive feedback, engagement with science, research progress, and trainees. **DISCUSSION/SIGNIFICANCE OF IMPACT:** Listening Circles fostered scholar connection and community while providing real-time insights into stressors and support systems. Their low-cost, adaptable format enabled responsive programming and may be replicable across CTSIs.

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From Community College to translational science: Building a bridge through immersion research experiences

Jalysa King and Matthew Allen
Indiana University School of Medicine

OBJECTIVES/GOALS: To describe how the Ivy Tech Community College and Indiana CTSI partnership creates early entry points into translational science, expands access for community college

students, and strengthens the biomedical research workforce. **METHODS/STUDY POPULATION:** The Indiana CTSI partnered with Ivy Tech, a community college system that has campuses throughout the state, to launch a Research Scholars Program. This is a 10-week summer immersion experience introducing community college students to biomedical and health sciences. Students are matched with research teams at Indiana University, Purdue University, or Notre Dame (depending on where the student lives), engaging in 35 hours per week in research activities and professional development. Students receive a stipend and may be provided a laptop if needed. Recruitment is supported through collaboration with Ivy Tech faculty and staff, including classroom outreach, referrals, and information sessions. **RESULTS/ANTICIPATED RESULTS:** Across two cohorts, the program achieved 17 completions by community college students from multiple Ivy Tech campuses, including one #_msocom_1 who returned for a second summer. Students gained hands-on research skills, professional development, and communication training, presenting their findings at program-end symposia and a virtual presentation connecting participants across campuses. Outcomes include poster presentations at regional meetings, transfers to four-year institutions, and pursuit of health and biomedical careers. Several students have continued working with mentors, and one was hired part-time by their lab, underscoring the program's statewide impact through partnerships with IU, Purdue, and Notre Dame.

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Using a large language model to identify behavioral and social science research at the University of Michigan

Alexandra Harper¹, David Hanauer², Reema Kadri³, Angela Lyden⁴, Mary Janevic⁵, Claire Kalpakjian⁶ and Susan L. Murphy⁶

¹Michigan Institute for Clinical & Health Research (MICHHR) ; ²Michigan Institute for Clinical & Health Research (MICHHR), University of Michigan Medical School; Department of Learning Health Sciences, University of Michigan Medical School; ³Michigan Institute for Clinical & Health Research (MICHHR), University of Michigan Medical School; Department of Family Medicine, University of Michigan Medical School; ⁴Michigan Institute for Clinical & Health Research (MICHHR), University of Michigan Medical School; ⁵Michigan Institute for Clinical & Health Research (MICHHR), University of Michigan Medical School; Department of Health Behavior and Health Equity, University of Michigan, School of Public Health and ⁶Michigan Institute for Clinical & Health Research (MICHHR), University of Michigan Medical School; Department of Physical Medicine and Rehabilitation, University of Michigan Medical School