

UNIVERSITY OF KENTUCKY COLLEGE OF NURSING
OFFICE OF NURSING RESEARCH
Annual Report 2020-2021



**University of Kentucky, College of Nursing
Office of Nursing Research
Annual Report FY 21**

Table of Contents

1. Research Report.....	2-11
2. Publications.....	12-28
3. Research Profile: Adebola Adegboyega.....	29-30
4. Research Profile: Ty Borders.....	31-32

Research Report

This University of Kentucky (UK) College of Nursing (CON) Office of Research report provides highlights and trends in CON extramural and intramural researching funding during Fiscal Years (FY) 2017-2021.

Types of Grants

CON principal investigators (PIs) submit various types of grants, generally to one of two types of award programs– extramural research (research dollars are awarded from an organization external to the University of Kentucky, examples include the National Institute of Nursing Research, the National Cancer Institute, the Health Resources & Services Administration, the Patient Centered Outcomes Research Institute, the Kentucky Department for Public Health, American Nurses Foundation) and intramural research [research dollars are awarded from a program internal to the University of Kentucky; examples include the Center for Clinical and Translational Science (CCTS) awards, the Office of the Vice President for Research (VPR) awards, and UK Women & Philanthropy]. Grant awards provide funding for the cost of conducting the research (i.e., direct costs) as well as the cost to the institution to support the facilities and administration of the research (indirect costs). Funding for the indirect, or facilities and administration (F&A), costs of research vary among funding sources as well as the type of award mechanism within funding sources. Intramural research awards, for example, do not generally provide funds for indirect costs.

When applying for extramural funding, PIs in the CON cast a wide net, targeting federal and state agencies, private foundations, and professional associations. Awards to UK vary by funding type. The National Institute of Health (NIH) awards multi-year grants, but funds are distributed on a year-to-year basis, and funding amounts each year can change from that committed at the time of the initial award. As such, the college is credited for only the amount of the award that is funded in given year, rather than the anticipated cumulative total over the full duration of the award. Funds for contracts, however, are guaranteed when the contract is initially awarded. Therefore, the total amount of the award over the life of the contract is counted as occurring at the time the initial contract is awarded. A good example of this would be Patient Centered Outcomes Research Institute (PCORI) contracts – the total amount of funding for a multi-year PCORI contract is credited to the college at the time the contract is awarded.

At the present time, 23 (59%) of the College of Nursing’s tenure-eligible faculty serve as PI (or Multi-PI) on funded research.

Information on Indirect (Facilities & Administrative) Costs

Facilities & Administrative (F&A) costs are real expenses incurred by the university in support of sponsored projects, but which by federal regulation cannot be charged directly to a specific grant, contract, or other sponsored agreement. F&A costs stem from the institutional need to maintain a

shared infrastructure that supports the research and scholarly activities of all investigators. F&A costs are divided into facilities costs (e.g., building depreciation, operation and maintenance, utilities) and administrative costs (e.g., sponsored projects administration, purchasing, accounting, legal services). These funds are important to the College of Nursing because a portion of the funds is returned to the College to support grant development.

The federal F&A cost rate is negotiated periodically with the university's audit agency, the Department of Health and Human Services. The F&A rate varies by type of project (e.g., research, instruction, career development) and location of the work (on-campus vs. off-campus). For research projects that are conducted on the UK campus, which is the most common type of extramurally sponsored project received by the CON, the F&A rate is 53%. F&A support for research projects conducted off campus is 26%. Federal awards involving instruction have a lower F&A rate (46%), and career development awards (e.g., 'K' awards) have an even lower indirect rate (8%). Private foundations, associations and state agencies may or may not separately reimburse F&A costs, and the rates are generally set by the funding agency. PCORI, an independent, nonprofit, nongovernmental organization, has an F&A cost rate limit of 40%. Some foundation awards (e.g., Robert Wood Johnson Foundation's Future of Nursing Scholars; Jonas Scholars) do not provide any F&A reimbursement.

F&A payments are driven by grant expenditures, rather than awards. If UK received a grant for \$100,000, but only spent \$70,000 of that award on research, UK, in turn, would receive an F&A payment based on the \$70,000 that was spent. Due to the amount of time needed for F&A calculations, it takes two years for the F&A to return to the College. In other words, in FY 21, the College of Nursing is receiving F&A distributions from grant expenditures that occurred in FY 19.

Unique Facts about the University of Kentucky College of Nursing's Research Portfolio

When looking at the total number of research dollars generated by an academic unit per fiscal year, it is important to consider the number of faculty members who are supported by the unit that are able to compete for extramural funding. At the University of Kentucky, the College of Nursing has a smaller number of Regular Title Series (RTS) and Special Title Series (STS) faculty (i.e., tenure-eligible faculty) than many other colleges at UK. Within the faculty workforce, RTS faculty members typically receive the greatest amount of institutional support for research and are, in turn, called upon to compete for extramural research funding. The number of faculty members (particularly the number of RTS faculty) within an academic unit is thus a critical resource in competing for grant awards. STS faculty members typically have special assignments (e.g., administrative, clinical or educational assignments) that restrict time for research activities; these faculty members typically receive less institutional support for research. STS faculty members are expected to contribute scholarship, often in association with their special assignments, and are expected to compete for extramural awards to support their special assignments, but are not expected to compete for extramural research funding.

Grant Productivity

The research and scholarship portfolio of the College is influenced by the number of RTS and STS faculty contributing this mission. Tables A thru D below show a breakdown of extramural research

activity and funding trends within the College of Nursing over the previous five years. Table A provides the number of RTS and STS faculty in the College of Nursing since FY17, as of October 1 of the given fiscal year. Over the past five years, the total number of RTS and STS faculty in the College of Nursing has remained relatively stable (38 in FY 17; 39 in FY 21), although the relative number of RTS and STS faculty has changed over time based on the pedagogical needs of the College.

Table A. Total Number of CON Faculty

	FY 17	FY 18	FY 19	FY 20	FY21
Regular Title Series (RTS) Faculty*	18	18	17	16	18
Special Title Series (STS) Faculty	20	18	19	23	21
Other Full-Time Faculty	30	29	31	32	32

*The Dean of the College of Nursing is not included in the RTS totals.

Figure 1 and Table B provide data on total number of grant submissions and on the number of grants submitted per faculty member over the past five years. The total number of grant applications has remained stable across time.

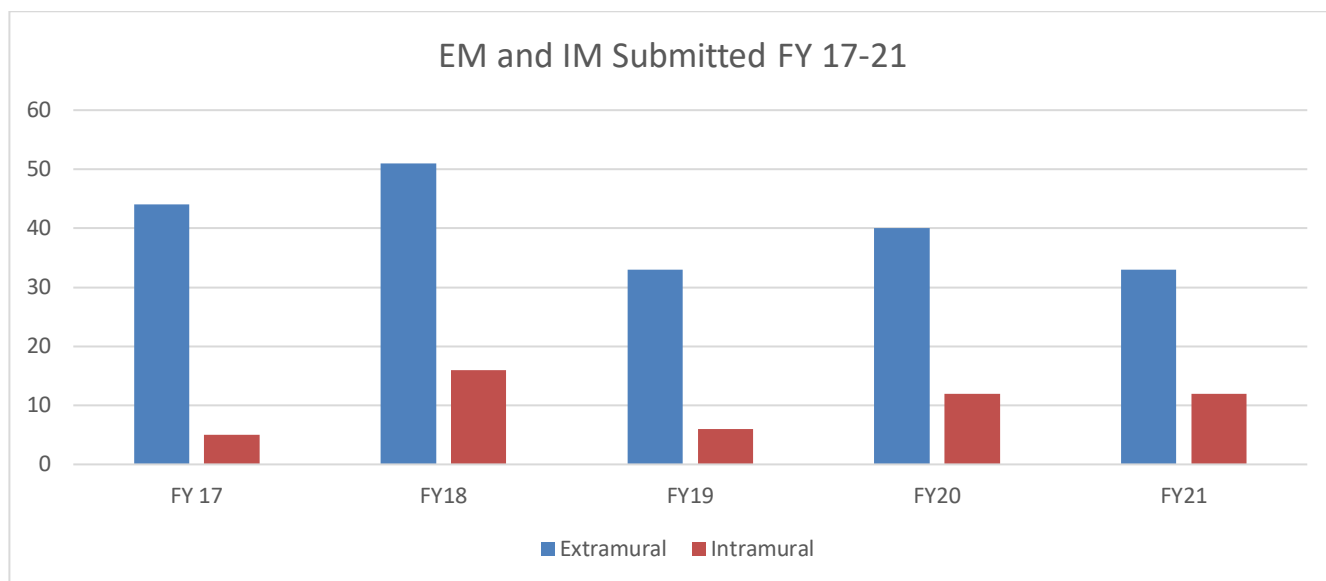


Figure 1. CON Grant Proposals Submitted FY 17-21.

The number of intramural grants submitted per year has also remained relatively stable and is generally lower than the total of the number of extramural grants submitted per year. In FY 21, College faculty submitted 12 intramural grant applications.

Table B. Extramural (EM) Grant Applications

	FY 17	FY 18	FY 19	FY 20	FY 21
Total # of EM grant applications submitted by CON PIs	44	51	33	40	33
Average # of grant applications per RTS faculty member	2.42	2.83	1.94	2.5	1.83

Table C. New Extramural Grant Funding; Directs Costs Only

	FY 17	FY 18	FY 19	FY 20	FY 21
Total EM Funding	\$4,221,848	\$4,080,684	\$6,007,136	\$8,782,467	\$8,113,459
Average # of grant \$ per RTS faculty member	\$ 234,547	\$ 226,705	\$ 353,361	\$ 548,904	\$ 450,747

Table C and Figure 2 present extramural grant funding for the College over the past five years. From the low of approximately \$4 million dollars in direct funding awarded in FY18, the CON has been awarded over \$8 million dollars in the most recent fiscal year. On average, during the most recent fiscal year, each RTS faculty member has generated nearly ½ million dollars in direct research funding per year.

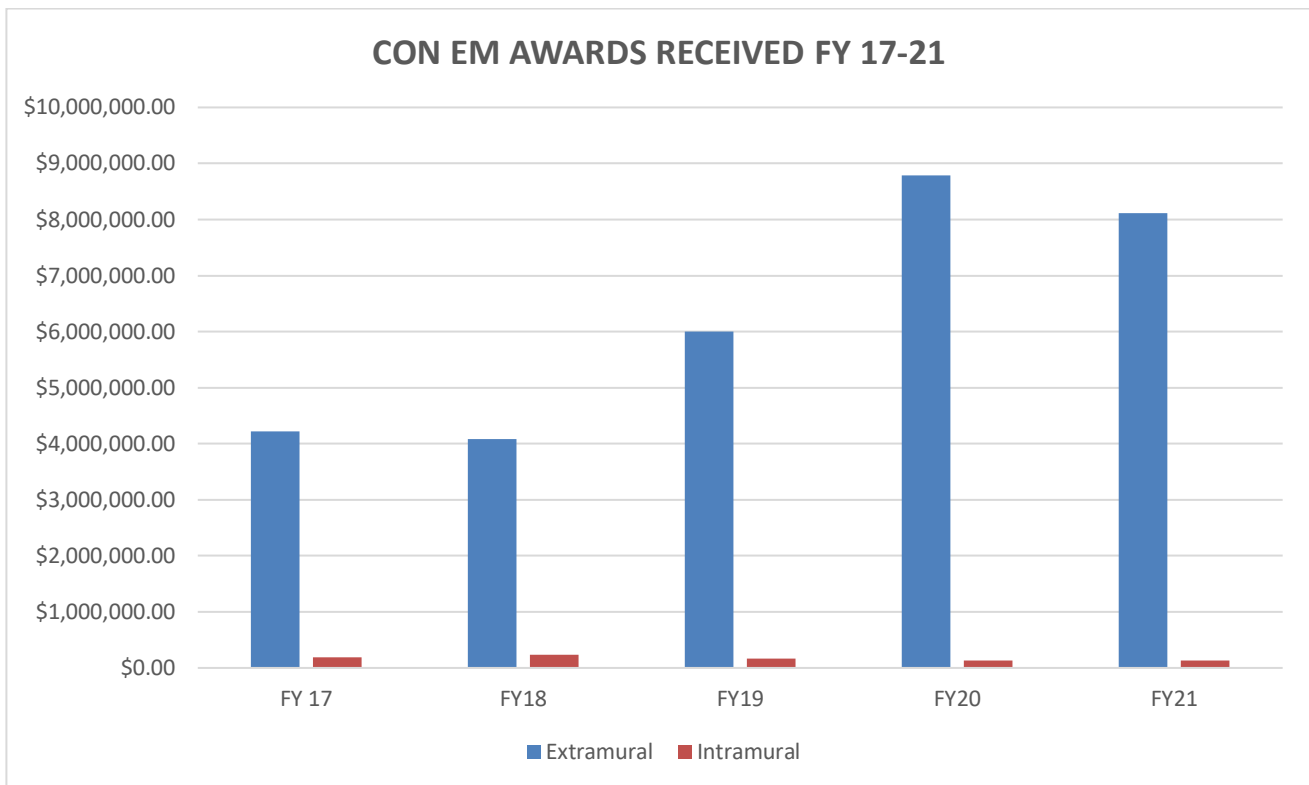


Figure 2. CON Extramural Awards Received FY 17-21

Figure 3 presents the number of extramural and intramural grants that were funded in the College since FY 17. The total number of awards received each year has remained relatively constant, between 16 in FY 17 and 25 in FY 18 and FY 20. Given the increase in award funding over time (see Figure 2), it is clear that the total amount of funding per award has been increasing over time.

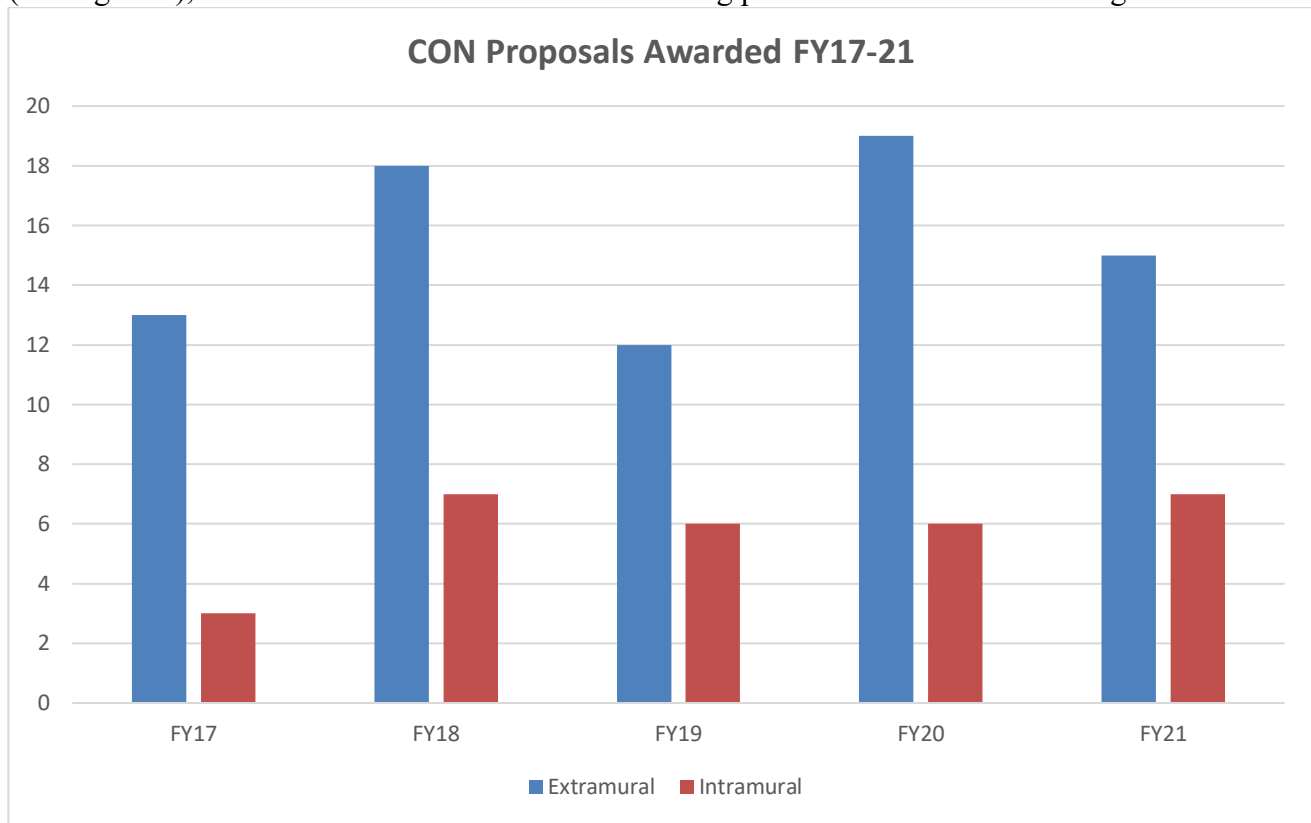


Figure 3. CON Proposals Awarded FY 17-21

Table D presents the amount of extramural grant expenditures, per fiscal year, from CON PIs. Of note, grant expenditures are a more direct way of tracking research effort, as expenditures are driven by actual research activity. Table D demonstrates a significant increase in research effort in FY19 and FY20 which is consistent with the increases in total research funding awarded to the College that year. Research expenditures for FY21 were not available at the time of this report.

Table D. Extramural (EM) Grant Expenditures (Total/Total per RTS) from CON PIs

	FY 17	FY 18	FY 19	FY 20	FY 21
EM Grant Expenditures	\$4,225,617	\$4,233,489	\$6,008,078	\$5,997,114	Not Available
Average EM Grant Expenditure per RTS faculty member	\$ 234,756	\$ 235,194	\$ 353,416	\$ 374,819	Not Available

Table E presents the standing of the University of Kentucky College of Nursing in total NIH funding relative to other academic units of Nursing in public universities as of October 18, 2021. The CON currently ranks 15th among all public academic units of nursing.

Table E: Top 20 NIH Funded Public Academic Nursing Units

ORGANIZATION	AWARDS	FUNDING
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	30	\$13,152,764
UNIVERSITY OF ALABAMA AT BIRMINGHAM	17	\$8,372,700
UNIVERSITY OF ILLINOIS AT CHICAGO	20	\$8,151,359
UNIVERSITY OF WASHINGTON	20	\$7,860,609
WASHINGTON STATE UNIVERSITY	9	\$7,441,917
UNIVERSITY OF MICHIGAN AT ANN ARBOR	21	\$7,164,268
UNIV OF NORTH CAROLINA CHAPEL HILL	19	\$6,136,920
OHIO STATE UNIVERSITY	16	\$5,638,498
UNIVERSITY OF MINNESOTA	12	\$5,506,953
ARIZONA STATE UNIVERSITY-TEMPE CAMPUS	7	\$4,965,635
UNIVERSITY OF FLORIDA	12	\$4,959,033
UNIVERSITY OF MARYLAND BALTIMORE	9	\$3,868,884
INDIANA UNIV-PURDUE UNIV AT INDIANAPOLIS	9	\$3,377,742
UNIVERSITY OF CALIFORNIA LOS ANGELES	8	\$2,848,226
UNIVERSITY OF KENTUCKY	6	\$2,716,191
UNIVERSITY OF TEXAS ARLINGTON	8	\$2,658,202
UNIVERSITY OF ARIZONA	5	\$2,618,430
UNIVERSITY OF UTAH	9	\$2,563,229
UNIVERSITY OF CALIFORNIA-IRVINE	6	\$2,290,934
UNIVERSITY OF WISCONSIN MILWAUKEE	3	\$2,287,744

Intramural Funding Sources

CON PIs have received funding from several intramural sources such as the UK Office of the Vice President for Research Support Grants Program, the Center for Clinical and Translational Sciences (CCTS), and UK Markey Cancer Center’s pilot funding opportunities [e.g., the Cancer Center Support Grant (CCSG) and Kentucky Lung Cancer Research Program awards]. Table F provides the number of IM applications submitted and funded, as well as the amount awarded, for FY17-21.

Table F. CON IM applications submitted, funded, and dollar amount by fiscal year

	FY 17	FY 18	FY 19	FY 20	FY 21
# IM Applications Submitted	5	16	6	12	12
# IM Applications Funded	3	7	6	6	7
Total IM Funding	\$186,000	\$238,769	\$165,000	\$133,425	\$129,421

Every year, the CON allocates a portion of the returned F&A funding to support a pilot-funding program for its faculty members. Applications were received and peer-reviewed in February and July, and funds were awarded in March and August. Activities supported by this program are not included in the data provided in Table F. In FY 21, 1 pilot study application was funded and received \$20,000 in funding.

Sources of research support

Figure 4 presents the funding sources for all active awards in FY 21. Over the last four years, NIH has been the predominant source of extramural funding agency for CON faculty. Some faculty members have pursued funding from other federal agencies (Health Resources & Services Administration [HRSA], Centers for Disease Control and Prevention [CDC], Patient Centered Outcomes Research Institute [PCORI]), with positive outcomes.

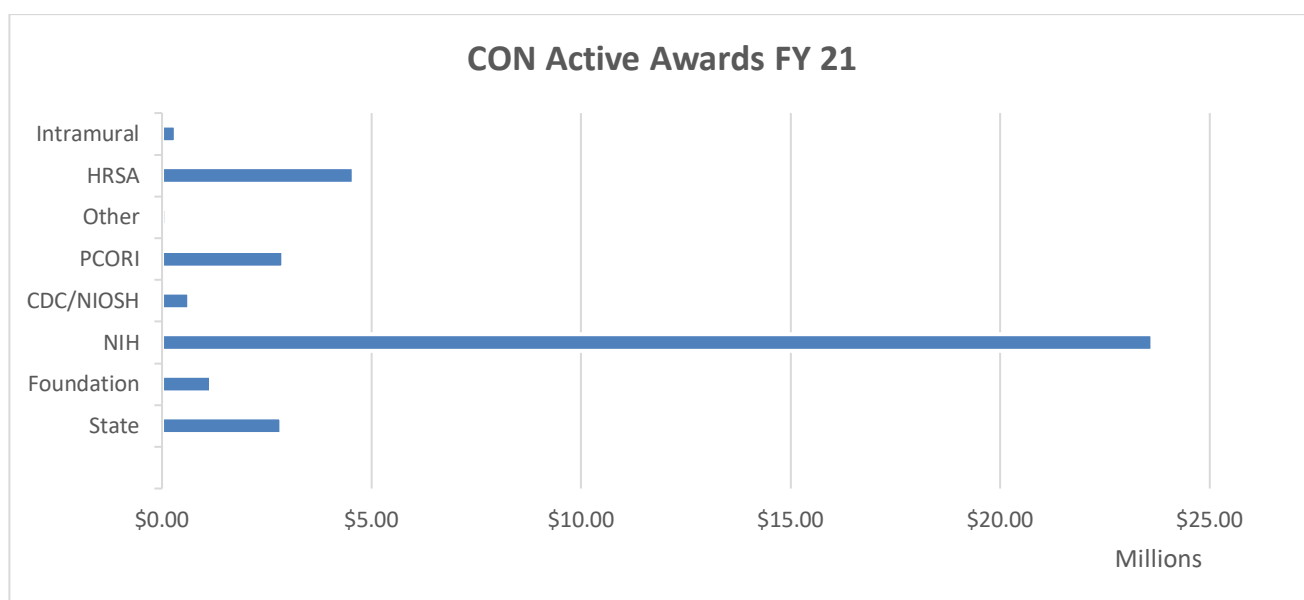


Figure 4. CON Active Research Awards (total funding) in FY 21

UK College of Nursing Funded Faculty in FY21

The research interests and funding sources and amounts for PIs in the CON are listed in Table F. Twenty-three members of the CON have active funded projects that support research and scholarship focusing on education, health disparities, occupational health, tobacco and drug use treatment and prevention, maternal and fetal health, cardiovascular health, obesity and diabetes prevention, and cancer prevention.

Table F: Total Intramural and Extramural Funding on Current Active Awards (PI Only)

Name	Research Interest	Primary Funding Source	*Total
Karen Butler	Occupational Health Nurse Training	NIOSH	\$628,358
Kristin Ashford	Maternal and Child Health	Ky. Cabinet for Health and Family Services	\$901,500
Camille Burnett	Community Engagement, Health Disparities and Vulnerable Populations	Federation of Virginia Foodbanks; UK CHET Pilot	\$115,000
Misook Chung	Cardiovascular Health: Chronic Patients and Caregivers	NIH-NINR; CON Pilot	\$10,000
Amanda Fallin-Bennett	Tobacco Policy and Substance Abuse	KDPH, CON Pilot, NCI, UK CHET Pilot	\$1,285,997
Jan Forren	PeriAnesthesia Nursing	SNRS/AORN	\$10,000
Ellen Hahn	Tobacco Policy and Environmental Health	NIH-NIEHS (P30 and R01), KDPH, UK CCTS, Interact for Health (Subawards), State Medicaid Grant, Radon	\$11,770,839
Sharon Lock	Nurse Training	HRSA	\$1,770,319
Ana Maria Linares	Intervention to Enhance Breastfeeding and Obesity Risk Reduction	UKCCTS; CON Pilot	\$42,000
Debra Moser	Cardiovascular & Cerebrovascular Health – Risk Self-Management	NIH-NINR, Jonas, RWJF	\$5,516,707
Gia Mudd-Martin	Cardiovascular Health, Diabetes, and the Family Structure	NINR; NIH OD; OBSSR, CCTS	\$5,119,663
Deborah Reed	Occ Health – Kentucky Farmers	Hillman Foundation	\$200,000
Tyrone Borders	Rural Health Research	HRSA	\$2,800,000
Julie Marfell	Nursing Leadership, Rural Health, Farmer Stress, Nursing Workforce Issues	State of Kentucky	\$118,181
Janie Heath	Nursing Workforce and Rural Health	AARP/RWJF	\$50,000
Stacy Stanifer	Tobacco and Radon Prevention	Conference of Radon Professionals	\$4,150
Elizabeth Salt	Chronic Pain Management	Pfizer; CCTS; CON Pilot	\$460,438
Zim Okoli	Tobacco Policy and Substance Abuse	KDPH, State Medicaid Grant	\$1,000,747
Jean Edward	Promoting equitable access to healthcare; Healthcare access and disparities research	CON Pilot; ACS IRG, RWJF	\$594,268
Martha Biddle	CV Health: Secondary Prev of CV Disease	CON Pilot; UK CCTS Pilot	\$37,000
Lovoria Williams	Interventions to reduce health disparities among underserved populations	NIDDK, UK VPR Pilot	\$2,991,335
Jennifer Miller	Palliative Nursing and CV Health	UK CCTS Pilot	\$25,000
Lee Anne Walmsley	Adult Learners and Educational Research	UK Women and Philanthropy	\$50,000
			\$36,237,181

*Total projected award amounts for the referenced active sponsors

Scholarship

	FY 17	FY 18	FY19	FY20	FY21
Presentations	170	156	147	160	104
Presentations/Faculty	2.5	2.4	2.2	2.3	1.5

Table G lists the number of presentations given by CON faculty since FY 17. During FY 20, College of Nursing faculty gave a total of 160 research-focused presentations at professional conferences (2.3 presentations per faculty member). This reflects a relatively stable rate of presentations over the previous four years period. During FY21, a year in which travel was significantly reduced by the pandemic, presentation productivity dropped off significantly. These data come from the Digital Measures database, which is dependent on faculty reporting of productivity.

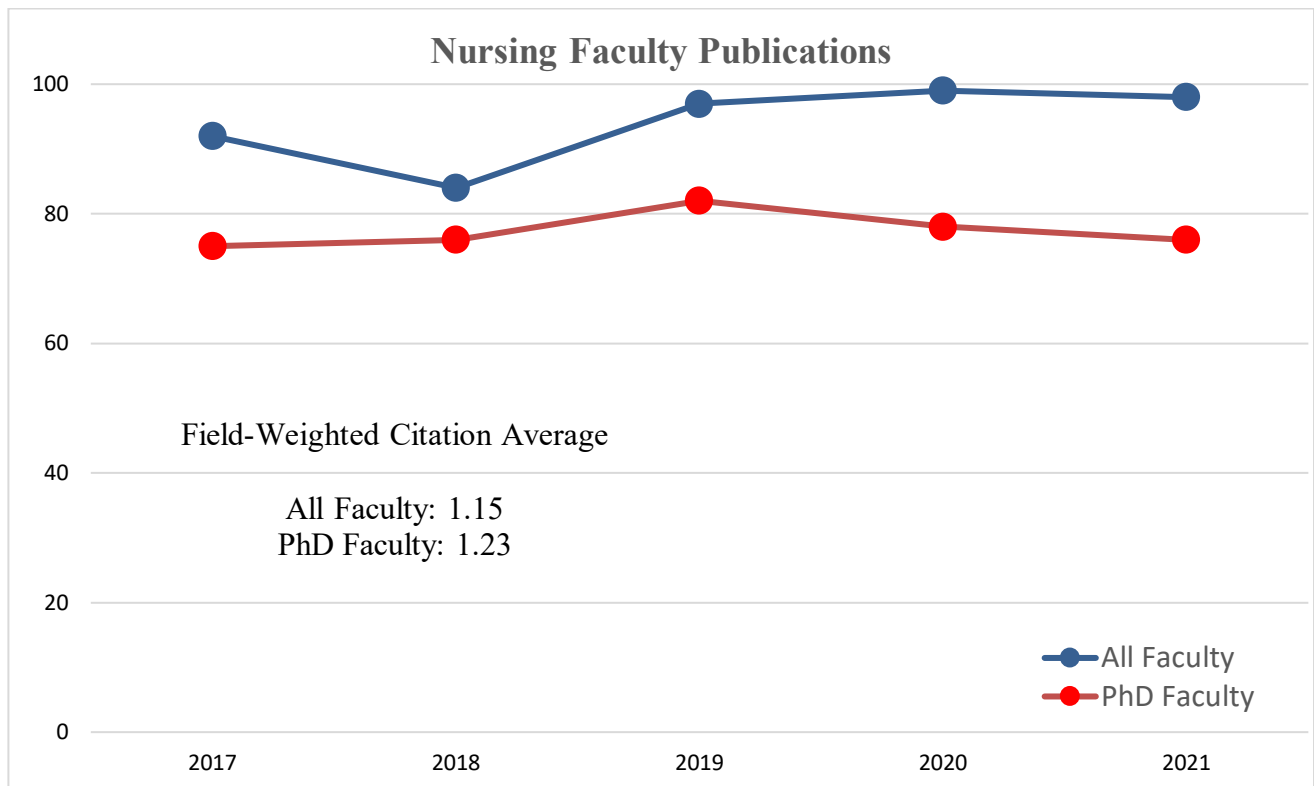


Figure 5. CON publications and associated field-weighted citation impact ratings

Figure 5 provides data on CON faculty (all full-time faculty, and the subset of full-time faculty who support the PhD program) peer-reviewed data-based publications since 2017, along with the average field-weighted citation impact of the publications over that period. The impact data are derived from Scopus®, which indexes content from over 5,000 publishers (24,600 active journal and other serial titles) in the health, life and social sciences. Over the past five years, CON faculty have averaged 94 publications per year, with PhD faculty contributing to 77 of these per year. The impact of these publications is significant, with each publication by a CON faculty member being cited 15% more

frequently than a typical publication in the Nursing field (1.15 field-weighted citation index), and each publication from a faculty member supporting the PhD program being cited 23% more frequently than a typical publication in the field (1.23 field-weighted citation index). As of November, 2021, College of Nursing faculty have published 98 data-based articles in referred journals (1.4 publications per full-time faculty member). Faculty who supported the PhD program have contributed to 76 of these publications (3.5 publications per faculty member).

Conclusion

The University of Kentucky College of Nursing faculty members are actively engaged in patient-oriented and public policy focused research that impacts the citizens of the Commonwealth (e.g., cardiovascular health, tobacco smoking, drug abuse, maternal and fetal health, occupational health of farmers). By all reasonable metrics, including grant submissions and funding, and data-based publications and presentations, the CON continues to make significant contributions to the science of nursing and producing new knowledge that advances the health of the Commonwealth of Kentucky and beyond.

Publications

2020

- Abdalahim, M.S., Khalil, A.A., Alramly, M., Alshlool, K.N., Abed, M.A., Moser, D.K. (2020). Pre-existing chronic kidney disease and acute kidney injury among critically ill patients. *Heart and Lung*. 49, 626-629.
- Abed, M.A., Khalifeh, A.H., Khalil, A.A., Darawad, M.W., Moser, D.K. (2020). Functional health literacy and caregiving burden among family caregivers of patients with end-stage renal disease. *Research in Nursing and Health*. 43, 529-537.
- Abraham, C.M., Kelly, S., Wantland, D., Chung, M.L., Mudd-Martin, G., Biddle, M.J., Moser, D.K. (2020). Factors Influencing Cardiovascular Risk Factors and Health Perception Among Kentuckians Living in Appalachia. *The Journal of cardiovascular nursing*. 35, E1-E8.
- Adegboyega, A., Nkwonta, C.A., Edward, J. (2020). Health insurance literacy among international college students: A qualitative analysis. *Journal of International Students*. 10, 50-68.
- Al-Hammouri, M.M., Rababah, J.A., Hall, L.A., Moser, D.K., Dawood, Z., Jawhar, W., Alawawdeh, A. (2020). Self-care behavior: A new insight of the role of impulsivity into decision making process in persons with heart failure. *BMC Cardiovascular Disorders*. 20.
- Al-Mrayat, Y.D., Okoli, C.T.C., Studts, C.R., Rayens, M.K., Hahn, E.J. (2020). The Psychometric Properties of the Minnesota Tobacco Withdrawal Scale Among Patients With Mental Illness. *Biological Research for Nursing*. 22, 247-255.
- Anderson, A.L., Waddell, A., Brennan, P., Burnett, C., Anderson, C., Short, N.M. (2020). Advancing health policy education in nursing: American Association of Colleges of Nursing Faculty Policy Think Tank. *Journal of Professional Nursing*. 36, 100-105.
- Ashford, K., McCubbin, A., Rayens, M.K., Wiggins, A., Dougherty, K., Sturgill, J., Ickes, M. (2020). ENDS use among college students: Salivary biomarkers and persistent cough. *Addictive behaviors*. 108.
- Biddle, M.J., Moser, D.K., Pelter, M.M., Robinson, S., Dracup, K. (2020). Predictors of Adherence to Self-Care in Rural Patients With Heart Failure. *Journal of Rural Health*. 36, 120-129.
- Borders, T.F. (2020). Recognition of Article of the Year, Citation Impact Factor, and Peer Reviewers. *Journal of Rural Health*. 36.
- Borders, T.F., Cecil, J.G. (2020). Rurality and Cancer Stage, Treatment, and Follow-Up Care. *Journal of Rural Health*. 36, 460-461.
- Bourgault, A.M., Williams, L.B. (2020). Color consciousness: A movement toward antiracism. *Critical Care Nurse*. 40, 10-12.

- Bugajski, A., Frazier, S.K., Cousin, L., Rechenberg, K., Brown, J., Lengerich, A.J., Moser, D.K., Lennie, T.A. (2020). Effects of a Digital Self-care Intervention in Adults with COPD: A Pilot Study. *Western Journal of Nursing Research*. 42, 736-746.
- Chappell, K., Newhouse, R., Lundmark, V., ElChamaa, R., Jeong, D., Gallagher, D.K., Salt, E., Kitto, S. (2020). Methods of nursing certification in North America—A scoping review. *Nursing Outlook*. 68, 484-493.
- Chiavacci, S.J., Shapiro, C.D., Pindilli, E.J., Casey, C.F., Rayens, M.K., Wiggins, A.T., Andrews, W.M., Hahn, E.J. (2020). Economic valuation of health benefits from using geologic data to communicate radon risk potential. *Environmental Health: A Global Access Science Source*. 19.
- Chung, M.L. (2020). Caregiving in Heart Failure. *The Journal of cardiovascular nursing*. 35, 229-230.
- Chung, M.L., Lee, S.J., Moser, D.K., Kang, J., Lennie, T.A. (2020). A Comparison of Diet Quality of Patients with Heart Failure and Their Family Caregivers. *Journal of Cardiovascular Nursing*. 35, 101-106.
- Clements, L., Frazier, S.K., Moser, D.K., Lennie, T.A., Chung, M.L. (2020). The Mediator Effects of Depressive Symptoms on the Relationship between Family Functioning and Quality of Life in Caregivers of Patients with Heart Failure. *Heart and Lung*. 49, 737-744.
- Crowder, J., Burnett, C., Byon, H.D., Laughon, K., Acierno, R., Yan, G., Hinton, I., Teaster, P.B. (2020). Exploration and Comparison of Contextual Characteristics and Mistreatment Prevalence Among Older American Indian and Alaska Native Respondents: Secondary Analysis of the National Elder Mistreatment Study. *Journal of Interpersonal Violence*.
- Culp-Roche, A., Hampton, D., Hensley, A., Wilson, J., Thaxton-Wiggins, A., Otts, J.A., Fruh, S., Moser, D.K. (2020). Generational Differences in Faculty and Student Comfort With Technology Use. *SAGE Open Nursing*. 6.
- Edward, J. (2020). Effective cost conversations: Addressing financial toxicity and cost-related health literacy. *Clinical Journal of Oncology Nursing*. 24, 209-213.
- Edwards, C., Hardin-Pierce, M., Anderson, D., Rexford, T. (2020). Evaluation of Self-efficacy and Confidence Levels among Newly Graduated Nurses Exposed to an End-of-Life Simulation: A Comparison Study. *Journal of Hospice and Palliative Nursing*. 22, 504-511.
- Eldridge, C.C., Hampton, D., Marfell, J. (2020). Communication during crisis. *Nursing Management*. 51, 50-53.
- Elswick, A., Fallin-Bennett, A. (2020). Voices of hope: A feasibility study of telephone recovery support. *Addictive Behaviors*. 102.
- Fallin-Bennett, A., Elswick, A., Ashford, K. (2020). Peer support specialists and perinatal opioid use disorder: Someone that's been there, lived it, seen it. *Addictive Behaviors*. 102.

- Fallin-Bennett, A., Lofwall, M., Waters, T., Nuzzo, P., Barnett, J., Ducas, L., McCubbin, A., Chavan, N., Blair, L., Ashford, K. (2020). Behavioral and Enhanced Perinatal Intervention (B-EPIC): A randomized trial targeting tobacco use among opioid dependent pregnant women. *Contemporary Clinical Trials Communications*. 20.
- Flanders, S., Hampton, D., Missi, P., Ipsan, C., Gruebbel, C. (2020). Effectiveness of a staff resilience program in a pediatric intensive care unit. *Journal of Pediatric Nursing*. 50, 1-4.
- Goodin, A., Talbert, J., Freeman, P.R., Hahn, E.J., Fallin-Bennett, A. (2020). Appalachian disparities in tobacco cessation treatment utilization in Medicaid. *Substance Abuse: Treatment, Prevention, and Policy*. 15.
- Hahn, E.J., Wilmhoff, C., Rayens, M.K., Conley, N.B., Morris, E., Larck, A., Allen, T., Pinney, S.M. (2020). High school students as citizen scientists to decrease radon exposure. *International Journal of Environmental Research and Public Health*. 17, 1-10.
- Hampton, D., Culp-Roche, A., Hensley, A., Wilson, J., Otts, J.A., Thaxton-Wiggins, A., Fruh, S., Moser, D.K. (2020). Self-efficacy and satisfaction with teaching in online courses. *Nurse Educator*. 45, 302-306.
- Hampton, D., Welsh, D., Wiggins, A.T. (2020). Learning Preferences and Engagement Level of Generation Z Nursing Students. *Nurse Educator*. 45, 160-164.
- Haneberg, W.C., Wiggins, A., Curl, D.C., Greb, S.F., Andrews, W.M., Rademacher, K., Rayens, M.K., Hahn, E.J. (2020). A Geologically Based Indoor-Radon Potential Map of Kentucky. *GeoHealth*. 4.
- Hardin-Pierce, M., Hampton, D., Melander, S., Wheeler, K., Scott, L., Inman, D., Parrish, E., Mudd-Martin, G. (2020). Faculty and Student Perspectives of a Graduate Online Delivery Model Supported by On-Campus Immersion. *Clinical Nurse Specialist*. 34, 23-29.
- Heath, J., Walmsley, L.A., Aker, R.M., Ferrin, S., Stone, D., Norton, J.C. (2020). CPR to the Rescue!: An Interprofessional Pilot Program: Cultivating Practices for Resilience (CPR) Camp. *Clinical Nurse Specialist*. 34, 63-69.
- Hensley, A., Wilson, J.L., Culp-Roche, A., Hampton, D., Hardin-Fanning, F., Cheshire, M., Wiggins, A.T. (2020). Characteristics of RN to BSN students in online programs. *Nurse Education Today*. 89.
- Heo, S., Moser, D.K., Lennie, T.A., Fischer, M., Kim, J., Walsh, M.N., Ounpraseuth, S., Turrise, S. (2020). Prediction of Heart Failure Symptoms and Health-Related Quality of Life at 12 Months from Baseline Modifiable Factors in Patients with Heart Failure. *Journal of Cardiovascular Nursing*. 35, 116-125.
- Higgins, J., Casey, S., Taylor, E., Wilson, R., Halcomb, P. (2020). Comparing the braden and jackson/cubbin pressure injury risk scales in trauma-surgery ICU patients. *Critical Care Nurse*. 40, 52-61.

- Higgins, J.T., Frazier, S.K., Lennie, T., Rayens, M.K., Avila, J. (2020). Early Ambulation After Injury Is Associated With Increased Muscle Size and Strength. *Biological Research for Nursing*. 22, 527-535.
- Higgins, J.T., Okoli, C., Otachi, J., Lawrence, J., Bryant, E.D., Lykins, A., Seng, S. (2020). Factors Associated with Burnout in Trauma Nurses. *Journal of Trauma Nursing*. 27, 319-326.
- Hopgood, D.A., Czosek, R.J., Bakas, T., Garritano, N., Gillespie, G.L. (2020). The Capture Gap: Implantable Cardioverter–Defibrillator Quality of Life. *Clinical Nursing Research*. 29, 97-107.
- Howard, P.B., Williams, T.E., El-Mallakh, P., Melander, S., Tharp-Barrie, K., Lock, S., MacCallum, T. (2020). An innovative teaching model in an academic-practice partnership for a Doctor of Nursing Practice program. *Journal of Professional Nursing*. 36, 285-291.
- Hwang, B., Pelter, M.M., Moser, D.K., Dracup, K. (2020). Effects of an educational intervention on heart failure knowledge, self-care behaviors, and health-related quality of life of patients with heart failure: Exploring the role of depression. *Patient Education and Counseling*. 103, 1201-1208.
- Ickes, M., Hester, J.W., Wiggins, A.T., Rayens, M.K., Hahn, E.J., Kavuluru, R. (2020). Prevalence and reasons for Juul use among college students. *Journal of American College Health*. 68, 455-459.
- Ickes, M.J., Butler, K., Wiggins, A.T., Kerckmar, S., Rayens, M.K., Hahn, E.J. (2020). Truth® ads, receptivity, and motivation to use or quit tobacco among college students. *Journal of American College Health*. 68, 366-373.
- Ickes, M.J., Sampson, S., Parsons, J., Rayens, M.K., Xiao, M., Fisher, A., Mundy, M., Hahn, E.J. (2020). Tobacco-Free Ambassador Partnership: Empowering Youth Advocates in Appalachian Communities. *Health Promotion Practice*. 21, 98-109.
- Ickes, M.J., Wiggins, A., Hahn, E.J. (2020). Readiness to Adopt Physical Activity Policies in Rural Communities. *Health Promotion Practice*. 21, 430-439.
- Ickes, M.J., Wiggins, A.T., Rayens, M.K., Hahn, E.J. (2020). Student Tobacco Use Behaviors on College Campuses by Strength of Tobacco Campus Policies. *American Journal of Health Promotion*. 34, 747-753.
- Ickes, M.J., Wiggins, A.T., Rayens, M.K., Hahn, E.J. (2020). Readiness for Tobacco-Free Policy in a Statewide University System. *Health Promotion Practice*.
- Inman, D., El-Mallakh, P., Jensen, L., Ossege, J., Scott, L. (2020). Addressing Substance Use in Adolescents: Screening, Brief Intervention, and Referral to Treatment. *Journal for Nurse Practitioners*. 16, 69-73.
- Kang, J., Moser, D.K., Biddle, M.J., Lennie, T.A., Smyth, S.S., Vsevolozhskaya, O.A. (2020). Inflammatory properties of diet mediate the effect of depressive symptoms on Framingham

risk score in men and women: Results from the National Health and Nutrition Examination Survey (2007-2014). *Nutrition Research*. 74, 78-86.

Key, K.V., Adegboyega, A., Bush, H., Aleshire, M.E., Contreras, O.A., Hatcher, J. (2020). #CRCFREE: Using social media to reduce colorectal cancer risk in rural adults. *American Journal of Health Behavior*. 44, 353-363.

Klaus, K., Steele, S.L. (2020). An exploratory and descriptive study of destructive leadership in U.S. higher education. *International Journal of Leadership in Education*.

Lee, K.S., Kim, J.H., Kang, K.-W., Miller, J., McEvedy, S.M., Hwang, S.Y., Moser, D.K. (2020). Implantable Cardioverter Defibrillator Shocks and Psychological Distress: Examining the Mediating Roles of Implantable Cardioverter Defibrillator-Related Concerns and Perceived Control. *The Journal of cardiovascular nursing*. 35, 66-73.

Lee, K.S., Lennie, T.A., Moser, D.K. (2020). Prospective evaluation of association between negative emotions and heart failure symptom severity. *Psychology Research and Behavior Management*. 13, 1299-1310.

Lennie, T.A., Moser, D.K., Chung, M.L. (2020). Insight into Differences in Dietary Sodium Adherence between Men and Women with Heart Failure. *Journal of Cardiovascular Nursing*. 35, 131-136.

Lin, C.-Y., Miller, J.L., Lennie, T.A., Biddle, M.J., Mudd-Martin, G., Hammash, M., Moser, D.K. (2020). Perceived Control Predicts Symptom Status in Patients With Heart Failure. *The Journal of cardiovascular nursing*. 35, 530-537.

Linares, A.M. (2020). Year of the Midwife. *Journal of Transcultural Nursing*. 31, 537-538.

Linares, A.M., Bailey, D.F., Ashford, K. (2020). Enabling Nurse Students to Achieve Their Breastfeeding Goals. *Clinical Lactation*. 11, 65-73.

Linares, A.M., Barbier, D., Schoeffler, K.M., Collins, R.L. (2020). Assessing Barriers to Implement Birth Kangaroo Care in Kentucky Birthing Hospitals. *Clinical Lactation*. 11, 93-102.

McCubbin, A., Wiggins, A., Barnett, J., Ashford, K. (2020). Perceptions, Characteristics, and Behaviors of Cigarette and Electronic Cigarette Use among Pregnant Smokers. *Women's Health Issues*. 30, 221-229.

Melander, S., Hardin-Pierce, M., Howard, P.B. (2020). Meeting the challenges of expanded practice through postgraduate APRN certification. *The Nurse practitioner*. 45, 8-10.

Melander, S., Howard, P.B., Williams, T.E., Tharp-Barrie, K., El-Mallakh, P., MacCallum, T. (2020). Optimizing impact through the Tiered Doctor of Nursing Practice Project Model. *Journal of the American Association of Nurse Practitioners*. 32, 263-268.

Mulready-Shick, J., Edward, J., Sitthisongkram, S. (2020). Developing Local Evidence about Faculty Written Exam Questions: Asian ESL Nursing Student Perceptions about Linguistic Modification. *Nursing Education Perspectives*. 41, 109-111.

- Nkwonta, C.A., Dawson, R.M., Adegboyega, A. (2020). "I don't think I have a chance to get it": International university student HPV knowledge and preventive behaviors. *Journal of American College Health*.
- Odom-Forren, J. (2020). Nursing Resilience in the World of COVID-19. *Journal of Perianesthesia Nursing*. 35, 555-556.
- Odom-Forren, J. (2020). Dueling Plagues: Your Time to Act. *Journal of Perianesthesia Nursing*. 35, 345-346.
- Odom-Forren, J. (2020). Take Care of Your Heart. *Journal of Perianesthesia Nursing*. 35, 101-102.
- Otachi, J.K., Seng, S., Okoli, C.T.C. (2020). Factors associated with tobacco cessation attempts among inpatients in a psychiatric hospital. *Journal of Smoking Cessation*.
- Parrish, E. (2020). The next pandemic: COVID-19 mental health pandemic. *Perspectives in Psychiatric Care*. 56.
- Parrish, E. (2020). Farmers' behavioral health and suicide rates: What can we do!. *Perspectives in Psychiatric Care*. 56, 233-234.
- Parrish, E. (2020). Perspectives in psychiatric care: The past 25 years. *Perspectives in Psychiatric Care*. 56.
- Petursdottir, A.B., Sigurdardottir, V., Rayens, M.K., Svavarsdottir, E.K. (2020). The impact of receiving a family-oriented therapeutic conversation intervention before and during bereavement among family cancer caregivers: A nonrandomized trial. *Journal of Hospice and Palliative Nursing*. 22, 383-391.
- Reed, D.B., Claunch, D.T. (2020). Risk for Depressive Symptoms and Suicide Among U.S. Primary Farmers and Family Members: A Systematic Literature Review. *Workplace Health and Safety*. 68, 236-248.
- Reibel, M.D., Hutti, M.H. (2020). The Role of Helplessness in the Appraisal of Illness Uncertainty in Women With Fibromyalgia. *Nursing Science Quarterly*. 33, 346-352.
- Rhyne, R.L., Rishel Brakey, H., Halladay, J.R., Mottus, K., Greiner, K.A., Salt, E., Myers, O., Sutton, K., Fuentes, J., Vowles, K.E. (2020). A non-randomized pilot study to test the feasibility of treating chronic pain and opioid prescription use in rural areas with acceptance and commitment therapy (T-PACT). *Journal of Clinical and Translational Science*. 4, 472-476.
- Ryan, M., Feld, H., Yarrison, R. (2020). The arts in health professions education using photovoice to encourage reflection in health professions students completing a short-term experience in global health. *American Journal of Pharmaceutical Education*. 84, 474-483.
- Saleh, Z.T., Lennie, T.A., Darawad, M., Alduraiddi, H., Elshatarat, R.A., Almansour, I.M., Moser, D.K. (2020). The health outcomes of inflammation and obesity in patients with heart failure. *Heart and Lung*. 49, 896-901.

- Salt, E., Wiggins, A.T., Hooker, Q., Rayens, M.K. (2020). Clinical and Psychosocial Factors over Time following an Acute Low Back Pain Episode. *Orthopaedic Nursing*. 39, 248-254.
- Salt, E., Wiggins, A.T., Rayens, M.K., Hooker, Q., Shojaei, I., Bazrgari, B. (2020). The relationship between indicators of lumbo-pelvic coordination and pain, disability, pain catastrophizing and depression in patients presenting with non-chronic low back pain. *Ergonomics*. 63, 724-734.
- Seng, S., Otachi, J.K., Okoli, C.T.C. (2020). Reasons for Tobacco Use and Perceived Tobacco-Related Health Risks in an Inpatient Psychiatric Population. *Issues in Mental Health Nursing*. 41, 161-167.
- Shojaei, I., Salt, E.G., Bazrgari, B. (2020). A prospective study of lumbo-pelvic coordination in patients with non-chronic low back pain. *Journal of Biomechanics*. 102.
- Smith, J.L., Estus, S., Lennie, T.A., Moser, D.K., Chung, M.L., Mudd-Martin, G. (2020). TAS2R38 PAV Haplotype Predicts Vegetable Consumption in Community-Dwelling Caucasian Adults at Risk for Cardiovascular Disease. *Biological Research for Nursing*. 22, 326-333.
- Stanifer, S.R., Hahn, E.J. (2020). Analysis of Radon Awareness and Disclosure Policy in Kentucky: Applying Kingdon's Multiple Streams Framework. *Policy, Politics, and Nursing Practice*. 21, 132-139.
- Stanifer, S.R., Rayens, M.K., Wiggins, A., Gross, D., Hahn, E.J. (2020). Home Radon Testing in Rural Appalachia. *Journal of Rural Health*.
- Tharp-Barrie, K., Williams, T.E., Howard, P.B., El-Mallakh, P., Maccallum, T. (2020). DNP Practice Improvement Initiative: Staff Nurse Competency Evaluation. *Journal of Nursing Administration*. 50, 22-27.
- Thompson, J.H., Moser, D. (2020). Experiences with end-of-life care with a left ventricular assist device: An integrative review. *Heart and Lung*. 49, 451-457.
- Thomson, P., Angus, N.J., Andreis, F., Rushworth, G.F., Mohan, A.R., Chung, M.L., Leslie, S.J. (2020). Longitudinal evaluation of the effects of illness perceptions and beliefs about cardiac rehabilitation on quality of life of patients with coronary artery disease and their caregivers. *Health and Quality of Life Outcomes*. 18.
- Thomson, P., Howie, K., Leslie, S.J., Angus, N.J., Andreis, F., Thomson, R., Mohan, A.R.M., Mondo, C., Chung, M.L. (2020). Evaluating emotional distress and health-related quality of life in patients with heart failure and their family caregivers: Testing dyadic dynamics using the Actor-Partner Interdependence Model. *PLoS ONE*. 15.
- Tovar, E., Ossege, J., Farus-Brown, S., Zonsius, M., Morrow, L. (2020). DNP Program Faculty and Graduates' Knowledge and Use of QI and Safety Processes. *Nurse Educator*. 45, 11-16.

- Tschannen, D., Alexander, C., Tovar, E.G., Ghosh, B., Zellefrow, C., Milner, K.A. (2020). Development of the Nursing Quality Improvement in Practice Tool: Advancing Frontline Nursing Practice. *Journal of Nursing Care Quality*. 35, 372-379.
- Vitori, T.K., Frazier, S.K., Biddle, M.J., Mudd-Martin, G., Pelter, M.M., Dracup, K., Moser, D.K. (2020). Hostility predicts mortality but not recurrent acute coronary syndrome. *European Journal of Cardiovascular Nursing*.
- Wang, J., Okoli, C.T.C., He, H., Feng, F., Li, J., Zhuang, L., Lin, M. (2020). Factors associated with compassion satisfaction, burnout, and secondary traumatic stress among Chinese nurses in tertiary hospitals: A cross-sectional study. *International journal of nursing studies*. 102.
- Wiggins, A.T., Huntington-Moskos, L., Rayens, E.A., Rayens, M.K., Noland, M., Butler, K., Hahn, E.J. (2020). Tobacco Use Among Rural and Urban US Middle and High School Students: National Youth Tobacco Survey, 2011-2016. *Journal of Rural Health*. 36, 48-54.
- Williams, L.B. (2020). COVID-19 disparity among Black Americans: A call to action for nurse scientists. *Research in Nursing and Health*.
- Witt, C.D., Reed, D.B., Rayens, M.K., Hunsucker, S. (2020). Predictors of Job Satisfaction in Female Farmers Aged 50 and Over: Implications for Occupational Health Nurses. *Workplace Health and Safety*. 68, 526-532.
- Yates, B.E., DeLetter, M.C., Parrish, E.M. (2020). Prescribed exercise for the treatment of depression in a college population: An interprofessional approach. *Perspectives in Psychiatric Care*. 56, 894-899.
- Ye, J., Mao, A., Wang, J., Okoli, C.T.C., Zhang, Y., Shuai, H., Lin, M., Chen, B., Zhuang, L. (2020). From twisting to settling down as a nurse in China: A qualitative study of the commitment to nursing as a career. *BMC Nursing*. 19.
- Zhang, Y., Leveille, S.G., Edward, J. (2020). Wisdom teeth, periodontal disease, and C-reactive protein in US adults. *Public Health*. 187, 97-102.

2021 (partial list)

- Abufarsakh, B., Okoli, C.T.C. (2021). Nursing Staff Attitude, Subjective Norms, Perceived Behavior Control, and Intention to Provide Tobacco Treatment in a Psychiatric Hospital. *Journal of the American Psychiatric Nurses Association*.
- Adegboyega, A., Boddie, S., Dorvie, H., Bolaji, B., Adedoyin, C., Moore, S.E. (2021). Social distance impact on church gatherings: Socio-behavioral implications. *Journal of Human Behavior in the Social Environment*. 31, 221-234.
- Adegboyega, A., Chung, M.L., Moser, D.K., Mudd-Martin, G. (2021). Psychometric Testing of a Cardiovascular Disease Fatalism Instrument Among Adults With Cardiovascular Disease Risks. *Journal of Nursing Measurement*. 29, 153-165.

- Adegboyega, A., Desmennu, A.T., Dignan, M. (2021). Qualitative assessment of attitudes toward cervical cancer (CC) screening and HPV self-sampling among African American (AA) and Sub Saharan African Immigrant (SAI) women. *Ethnicity and Health*.
- Adegboyega, A., Dignan, M., Sha, S., Nkwonta, C., Williams, L.B. (2021). Psychological factors among Appalachian women with abnormal Pap results. *Journal of Rural Health*.
- Alaradi, M., Hutti, M.H., Chaffin, N. (2021). Arab Muslims' Perceptions of Perinatal Loss Care in the United States of America. *Health and Social Care in the Community*.
- Aleshire, M.E., Adegboyega, A., Escontrías, O.A., Edward, J., Hatcher, J. (2021). Access to Care as a Barrier to Mammography for Black Women. *Policy, Politics, and Nursing Practice*. 22, 28-40.
- Alexander, C.C., Tschannen, D., Hays, D., Clouse, M., Zellefrow, C., Amer, K.S., Lambert-Davis, J., Watson, T.H., Tovar, E.G., Milner, K.A. (2021). An Integrative Review of the Barriers and Facilitators to Nurse Engagement in Quality Improvement in the Clinical Practice Setting. *Journal of Nursing Care Quality*.
- Alkon, A., Rose, R., Hazard, K., Moser, D. (2021). National Health and Safety Standards: Family Child Care Homes Compared With Child Care Centers. *Journal of Pediatric Health Care*. 35, 5-15.
- Arif, A.A., Adeyemi, O., Laditka, S.B., Laditka, J.N., Borders, T. (2021). Suicide mortality rates in farm-related occupations and the agriculture industry in the United States. *American Journal of Industrial Medicine*. 64, 960-968.
- Arslanian-Engoren, C., Giordani, B., Nelson, K., Moser, D.K. (2021). A Pilot Study to Evaluate a Computer-Based Intervention to Improve Self-care in Patients With Heart Failure. *The Journal of cardiovascular nursing*. 36, 157-164.
- Ashford, K., McCubbin, A., Barnett, J., Blair, L.M., Lei, F., Bush, H., Breland, A. (2021). Longitudinal Examination of Prenatal Tobacco Switching Behaviors and Birth Outcomes, Including Electronic Nicotine Delivery System (ENDS) and Dual Use. *Maternal and Child Health Journal*. 25, 1175-1181.
- Baah, F.O., Chittams, J., Carlson, B., Sethares, K.A., Daus, M., Moser, D.K., Riegel, B. (2021). Sociodemographic Indicators of Social Position and Self-care Maintenance in Adults with Heart Failure. *Clinical Nursing Research*. 30, 847-854.
- Berry, S.N., Severtsen, B., Davis, A., Nelson, L., Hutti, M.H., Oneal, G. (2021). The impact of anencephaly on parents: A mixed-methods study. *Death Studies*.
- Bolívar, H.A., Elliott, R.J., Middleton, W., Yoon, J.H., Okoli, C.T.C., Haliwa, I., Miller, C.C., Ades, P.A., Gaalema, D.E. (2021). Social Smoking Environment and Associations with Cardiac Rehabilitation Attendance. *Journal of Cardiopulmonary Rehabilitation and Prevention*. 41, 46-51.

- Borders, T.F. (2021). Heightened interest in rural health: The Journal of Rural Health moves into the top 10 ranked health policy and services publications. *Journal of Rural Health*. 37, 678-680.
- Brouwer, K.R., Walmsley, L.A., Parrish, E.M., McCubbin, A.K., Braido, C.E.C., Okoli, C.T.C. (2021). Examining the associations between self-care practices and psychological distress among nursing students during the COVID-19 pandemic. *Nurse Education Today*. 100.
- Burnett, C. (2021). Commentary on the Article “How Gentle Must Violence Against Women Be in Order to Not Be Violent? Rethinking the Word ‘Violence’ in Obstetric Settings,” Reframed Within a Critical Discourse Orientation. *Violence Against Women*. 27, 1001-1008.
- Burnett, C., Crowder, J., Bacchus, L.J., Schminkey, D., Bullock, L., Sharps, P., Campbell, J. (2021). “It Doesn’t Freak Us Out the Way It Used to”: An Evaluation of the Domestic Violence Enhanced Home Visitation Program to Inform Practice and Policy Screening for IPV. *Journal of Interpersonal Violence*. 36, NP7488-NP7515.
- Cardarelli, K.M., Ickes, M., Huntington-Moskos, L., Wilmhoff, C., Larck, A., Pinney, S.M., Hahn, E.J. (2021). Authentic youth engagement in environmental health research and advocacy. *International Journal of Environmental Research and Public Health*. 18, 1-12.
- Chen, M.M., Guo, S.-E., Yuan, C.-P., Okoli, C., Liao, Y.-C. (2021). Association between self-reported survey measures and biomarkers of second-hand tobacco smoke exposure in non-smoking pregnant women. *International Journal of Environmental Research and Public Health*. 18.
- Chung, M.L., Lee, S.J., Son, Y.-J., Miller, J.L., King, R.B. (2021). Depressive Symptom Trajectories in Family Caregivers of Stroke Survivors During First Year of Caregiving. *The Journal of cardiovascular nursing*. 36, 254-262.
- Chung, M.L., Liljeroos, M., Moser, D.K., Lennie, T.A. (2021). Perceived Control Prevents Perception of Negative Changes in Life as a Result of Caring for a Patient With Heart Failure. *The Journal of cardiovascular nursing*. 36, 206-211.
- Culp-Roche, A., Hardin-Fanning, F., Tartavouille, T., Hampton, D., Hensley, A., Wilson, J.L., Wiggins, A.T. (2021). Perception of online teacher self-efficacy: A multi-state study of nursing faculty pivoting courses during COVID 19. *Nurse Education Today*. 106.
- Dahlberg, K., Brady, J.M., Jaensson, M., Nilsson, U., Odom-Forren, J. (2021). Education, Competence, and Role of the Nurse Working in the PACU: An International Survey. *Journal of Perianesthesia Nursing*. 36, 224-231.e6.
- Dobbins, K., Addison, C., Roque, A., El-Mallakh, P.L., El-Mallakh, R.S. (2021). Cost-Savings Associated with Reductions in Public Service Utilization with Provision of Permanent Supported Housing in Midsized City in the United States. *Psychiatric Quarterly*. 92, 833-841.

- Edward, J., Thompson, R., Jaramillo, A. (2021). Availability of Health Insurance Literacy Resources Fails to Meet Consumer Needs in Rural, Appalachian Communities: Implications for State Medicaid Waivers. *Journal of Rural Health*. 37, 526-536.
- Edward, J.S., Rayens, M.K., Zheng, X., Vanderpool, R.C. (2021). The association of health insurance literacy and numeracy with financial toxicity and hardships among colorectal cancer survivors. *Supportive Care in Cancer*. 29, 5673-5680.
- Falls, C. (2021). Hemodynamic monitoring with the CardioMEMS HF System. *The Nurse practitioner*. 46, 46-50.
- Feld, H., Barnhart, S., Wiggins, A.T., Ashford, K. (2021). Social support reduces the risk of unintended pregnancy in a low-income population. *Public Health Nursing*. 38, 801-809.
- Feld, H., Ceballos Osorio, J., Bahamonde, M., Young, T., Boada, P., Rayens, M.K. (2021). Poverty and Paternal Education Associated With Infant Safe Sleep Intentions in a Peri-Urban Community in Ecuador. *Global Pediatric Health*. 8.
- Fugate, S., Hampton, D., Ashford, K., Welsh, D., Marfell, J. (2021). Effect of Clinical Reasoning Seminars on Medical-Surgical Specialty HESI Examination Scores. *Nurse Educator*. 46, E132-E136.
- Heath, J., Walmsley, L.A., Braido, C., Brouwer, K., Wiggins, A.T., Butler, K.M. (2021). Cultivating practices for resilience with baccalaureate nursing students: A pilot study. *Perspectives in Psychiatric Care*.
- Hensley, A., Hampton, D., Wilson, J.L., Culp-Roche, A., Wiggins, A.T. (2021). A multicenter study of student engagement and satisfaction in online programs. *Journal of Nursing Education*. 60, 259-264.
- Heo, S., Moser, D.K., Lennie, T.A., Fischer, M., Kim, J., Walsh, M.N., Thurston, M.M., Webster, J.H. (2021). Varied Factors were Associated with Different Types of Self-Care in Heart Failure. *Western Journal of Nursing Research*. 43, 298-306.
- Heo, S., Moser, D.K., Lennie, T.A., Kim, J., Turrise, S., Troyan, P.J., Kang, J., Jones, H.J. (2021). Self-care strategies and interventions needed in patients with heart failure: from patient perspectives-a qualitative study. *European journal of cardiovascular nursing : journal of the Working Group on Cardiovascular Nursing of the European Society of Cardiology*. 20, 540-546.
- Hester, J.W., Wiggins, A.T., Ickes, M.J. (2021). Examining intention to quit using Juul among emerging adults. *Journal of American College Health*.
- Higgins, J.T., Lennie, T.A., Frazier, S.K. (2021). Depressive Symptoms Predict Delayed Ambulation after Traumatic Injury. *Journal of Trauma Nursing*. 28, 3-9.
- Hill, L., Lambrinou, E., Moser, D.K., Beattie, J.M. (2021). The COVID-19 pandemic: challenges in providing supportive care to those with cardiovascular disease in a time of plague. *Current opinion in supportive and palliative care*. 15, 147-153.

- Hoepfner, B.B., Hoepfner, S.S., Carlon, H.A., Abry, A., Darville, A., Rohsenow, D.J. (2021). Preparing for the Quit Day: Comparing Beliefs of Nondaily Versus Daily Young Adult Smokers as They Prepare for a Quit Attempt. *Nicotine & tobacco research : official journal of the Society for Research on Nicotine and Tobacco*. 23, 1038-1046.
- Howard, P.B., Williams, T.E., Melander, S., Tharp-Barrie, K., MacCallum, T., Pendleton, M., Rogers, K.W., Veno, A.H. (2021). Sustained impact of an academic-practice partnership. *Journal of Professional Nursing*. 37, 995-1003.
- Hudson, L., Samons, K.M., Dicken, H.E., Prichard, C., Weiss, L.T., Edward, J., Vanderpool, R.C., Vanderford, N.L. (2021). A Brief Educational Intervention Enhances Basic Cancer Literacy Among Kentucky Middle and High School Students. *Journal of Cancer Education*. 36, 735-740.
- Hunsucker, S., Reed, D.B. (2021). Obesity and Work-Related Injuries Among Farmers in Kentucky, Tennessee, and West Virginia. *Workplace Health and Safety*.
- Huntington-Moskos, L., Rayens, M.K., Wiggins, A.T., Butler, K.M., Hahn, E.J. (2021). Use of theory-driven report back to promote lung cancer risk reduction. *International Journal of Environmental Research and Public Health*. 18.
- Ickes, M., Hester, J.W., Wiggins, A.T., Rayens, M.K. (2021). Juul use among emerging adults transitioning from high school to college. *Journal of American College Health*.
- Jizba, T.A., Baumert, J.M., Miller, J., Barnason, S. (2021). Implanted Port Access in the Emergency Department: A Unit-Level Feasibility Study of a Nurse-Led Port Access Algorithm. *Journal of Emergency Nursing*. 47, 599-608.
- Johnston, J., Xia, J., Yau, M.T.K., Wang, J.C.-C., Okoli, C.T.C., Khara, M. (2021). The Impact of Psychiatric Disorder Diagnosis on Motivation to Quit and Stage of Change Among Patients at a Hospital-Based Outpatient Smoking Cessation Clinic. *Journal of Dual Diagnosis*.
- Langley, T., Hampton, D., Wiggins, A., Fraser, J. (2021). Evaluation of Headache Intensity and Treatment Associated With Subarachnoid Hemorrhage. *Journal for Nurse Practitioners*. 17, 995-998.
- Lee, K.S., Moser, D.K., Park, J.-H., Lennie, T.A. (2021). The association of deficiencies of water-soluble vitamin intake with health-related quality of life and prognosis in patients with heart failure. *Quality of Life Research*. 30, 1183-1190.
- Lin, C.-Y., Dracup, K., Pelter, M.M., Biddle, M.J., Moser, D.K. (2021). Association of psychological distress with reasons for delay in seeking medical care in rural patients with worsening heart failure symptoms. *Journal of Rural Health*.
- Lin, C.-Y., Hammash, M., Miller, J.L., Schrader, M., Mudd-Martin, G., Biddle, M.J., Moser, D.K. (2021). Delay in seeking medical care for worsening heart failure symptoms: predictors and association with cardiac events. *European journal of cardiovascular nursing*

: journal of the Working Group on Cardiovascular Nursing of the European Society of Cardiology. 20, 454-463.

- Lin, C.-Y., Hammash, M., Mudd-Martin, G., Biddle, M.J., Dignan, M., Moser, D.K. (2021). Older and younger patients' perceptions, evaluations, and responses to worsening heart failure symptoms. *Heart and Lung*. 50, 640-647.
- Linares, A.M., Rayens, M.K., Moylan, J.S., Miller, C.S. (2021). Degree of Agreement Between Infant Serum and Salivary Concentration of Leptin and Adiponectin and Its Association With Infants' Feeding. *Biological Research for Nursing*. 23, 541-549.
- Marfell, J.A., Jolles, D. (2021). Outcome measurement in nurse-midwifery practice. *Outcome Assessment in Advanced Practice Nursing*, 203-219.
- Marfell, J.A., McNeely, H., Ma, H., Chappell, K. (2021). The Importance of Board Certification. *Journal of Nursing Administration*. 51, 417-419.
- Mason, M.R., Hudgins, J.H., Campbell, M.S., Biddle, M.J., Ickes, M.J., Dugan, A., Bollinger, L.M. (2021). Changes in physical activity during the initial stages of the COVID-19 pandemic. *Journal of Sports Sciences*.
- McCallum, D.M., Reed, D.B., Claunch, D.T., Davis, C.M., Conaway, M.B. (2021). Farm Dinner Theater: Testing an innovative health and safety intervention among older farmers and their families. *Journal of Rural Health*.
- McLouth, L.E., Nightingale, C.L., Dressler, E.V., Snavey, A.C., Hudson, M.F., Unger, J.M., Kazak, A.E., Lee, S.J.C., Edward, J., Carlos, R., Kamen, C.S., Neuman, H.B., Weaver, K.E. (2021). Current practices for screening and addressing financial hardship within the NCI community oncology research program. *Cancer Epidemiology Biomarkers and Prevention*. 30, 669-675.
- Mefford, L.C., Phillips, K.D., Chung, M.L. (2021). Childhood Loss Experiences, Religiousness/Spirituality, and Hope as Predictors of Adult Life Satisfaction. *Issues in Mental Health Nursing*. 42, 649-659.
- Melander, S., Hampton, D., Garritano, N., Makowski, A., Hardin-Pierce, M., Scott, L., Tovar, E., Biddle, M. (2021). Strengthening the impact of Doctor of Nursing Practice projects in education and clinical practice. *The Nurse practitioner*. 46, 33-38.
- Monroe, M., Linares, A.M., Ashford, K. (2021). Women's Perceptions of Hospital-Based Breastfeeding Care and the Association With Exclusive Breastfeeding. *Nursing for Women's Health*. 25, 257-263.
- Moon, K.J., Chung, M.L., Hwang, S.Y. (2021). The Perceived Marital Intimacy of Spouses Directly Influences the Rehabilitation Motivation of Hospitalized Stroke Survivors. *Clinical Nursing Research*. 30, 502-510.
- Mudd-Martin, G., Cirino, A.L., Barcelona, V., Fox, K., Hudson, M., Sun, Y.V., Taylor, J.Y., Cameron, V.A. (2021). Considerations for Cardiovascular Genetic and Genomic Research with Marginalized Racial and Ethnic Groups and Indigenous Peoples: A Scientific

Statement from the American Heart Association. *Circulation: Genomic and Precision Medicine*.

Odom-Forren, J. (2021). The Future of Nursing 2020-2030. *Journal of Perianesthesia Nursing*. 36, 323-324.

Odom-Forren, J. (2021). Professional Values and a Vision. *Journal of Perianesthesia Nursing*. 36, 101-102.

Odom-Forren, J., Brady, J., Sloan, P.A. (2021). Perianesthesia Patient Education for the Promotion of Opioid Stewardship. *Journal of Perianesthesia Nursing*. 36, 108-115.

Parrish, E. (2021). Peer review process. *Perspectives in Psychiatric Care*. 57, 7-8.

Parrish, E. (2021). Vaccine hesitant or resistant: What can we do?. *Perspectives in Psychiatric Care*. 57, 1545-1546.

Parrish, E. (2021). The ongoing conundrum of long-term benzodiazepine use: What our patients need to know. *Perspectives in Psychiatric Care*. 57.

Petermann, V., Zahnd, W.E., Vanderpool, R.C., Eberth, J.M., Rohweder, C., Teal, R., Vu, M., Stradtman, L., Frost, E., Trapl, E., Koopman Gonzalez, S., Vu, T., Ko, L.K., Cole, A., Farris, P.E., Shannon, J., Lee, J., Askelson, N., Seegmiller, L., White, A., Edward, J., Davis, M., Wheeler, S.B. (2021). How cancer programs identify and address the financial burdens of rural cancer patients. *Supportive Care in Cancer*.

Petursdottir, A.B., Rayens, M.K., Sigurdardottir, V., Svavarsdottir, E.K. (2021). Long-Term Effect of Receiving a Family Strengths-Oriented Intervention on Family Cancer Caregiver Stress, Anxiety, and Depression Symptoms: A Longitudinal Quasi-Experimental Study. *Journal of Family Nursing*. 27, 114-123.

Reed, D.B., McCallum, D., Claunch, D.T. (2021). Changing Health Practices Through Research to Practice Collaboration: The Farm Dinner Theater Experience. *Health Promotion Practice*. 22, 122-130.

Reed, D.B., McCallum, D., Legault, E. (2021). Farm Dinner Theater: Improving Health And Safety For Farm Families. *Journal of Extension*. 59, 1-5.

Rosa, W.E., Hinds, P.S., Burnett, C. (2021). Cancer Nurses, Relational Care, and Science to Achieve Social Justice in Oncology. *Cancer nursing*. 44, 178-179.

Saleh, Z.T., Lennie, T.A., Alhurani, A.S., Almansour, I.M., Alduraidi, H., Moser, D.K. (2021). High Dietary Sodium Intake is Associated with Shorter Event-Free Survival in Patients with Heart Failure and Comorbid Diabetes. *Clinical Nursing Research*. 30, 154-160.

Salt, E., Lohr, K., Edward, J. (2021). Methotrexate Intolerance: A Complex Belief System. *Orthopaedic Nursing*. 40, 316-321.

- Salt, E., Wiggins, A.T., Cooper, G.L., Benner, K., Adkins, B.W., Hazelbaker, K., Rayens, M.K. (2021). A comparison of child abuse and neglect encounters before and after school closings due to SARS-Cov-2. *Child Abuse and Neglect*. 118.
- Salt, E., Wiggins, A.T., Harrington, N.G., Rayens, M.K., Lohr, K. (2021). Evaluation of a medication optimization intervention and predictors of medication adherence, patient satisfaction and medication adverse events in patients with rheumatoid arthritis. *Musculoskeletal Care*.
- Schoenberg, N.E., Bowling, B., Cardarelli, K., Feltner, F., Mudd-Martin, G., Surratt, H.L., Kern, P.A. (2021). The community leadership institute of kentucky (Clik): A collaborative workforce and leadership development program. *Progress in Community Health Partnerships: Research, Education, and Action*. 15, 95-105.
- Sheffer, C.E., Al-Zalabani, A., Aubrey, A., Bader, R., Beltrez, C., Bennett, S., Carl, E., Cranos, C., Darville, A., Greyber, J., Karam-Hage, M., Hawari, F., Hutcheson, T., Hynes, V., Kotsen, C., Leone, F., McConaha, J., McCary, H., Meade, C., Messick, C., Morgan, S.K., Morris, C.W., Payne, T., Retzlaff, J., Santis, W., Short, E., Shumaker, T., Steinberg, M., Wendling, A. (2021). The emerging global tobacco treatment workforce: characteristics of tobacco treatment specialists trained in council-accredited training programs from 2017 to 2019. *International Journal of Environmental Research and Public Health*. 18, 1-17.
- Silverstein, L.A., Higgins, J.T., Henderson, S. (2021). Health-Related Quality of Life after Polytrauma: A Systematic Review. *Journal of Trauma Nursing*. 28, 107-118.
- Smalls, B.L., Adegboyega, A., Combs, E., Rutledge, M., Westgate, P.M., Azam, M.T., De La Barra, F., Williams, L.B., Schoenberg, N.E. (2021). The mediating/moderating role of cultural context factors on self-care practices among those living with diabetes in rural Appalachia. *BMC Public Health*. 21.
- Smith, J.L., Chung, M.L., Miller, J.L., Biddle, M., Schuman, D.L., Rayens, M.K., Lennie, T.A., Smalls, B., Hammash, M., Mudd-Martin, G., Moser, D.K. (2021). Profile of informal rural Appalachian caregivers of patients with chronic illnesses. *Journal of Rural Health*.
- Smith, J.L., Mudd-Martin, G., Estus, S., Lennie, T.A., Chung, M.L. (2021). TAS2R38 Haplotype Predicts 24-Hour Urinary Sodium Excretion in Patients With Heart Failure and Their Family Caregivers. *The Journal of cardiovascular nursing*. 36, 238-244.
- Stanifer, S.R., Rayens, M.K., Wiggins, A., Hahn, E.J. (2021). Social Determinants of Health, Environmental Exposures and Home Radon Testing. *Western Journal of Nursing Research*.
- Staton, M., Webster, J.M., Leukefeld, C., Tillson, M., Marks, K., Oser, C., Bush, H.M., Fanucchi, L., Fallin-Bennett, A., Garner, B.R., McCollister, K., Johnson, S., Winston, E. (2021). Kentucky Women's Justice Community Opioid Innovation Network (JCOIN): A type 1 effectiveness-implementation hybrid trial to increase utilization of medications for opioid use disorder among justice-involved women. *Journal of Substance Abuse Treatment*. 128.

- Strömberg, A., Liljeroos, M., Ågren, S., Årestedt, K., Chung, M.L. (2021). Associations Among Perceived Control, Depressive Symptoms, and Well-being in Patients With Heart Failure and Their Spouses: A Dyadic Approach. *The Journal of cardiovascular nursing*. 36, 198-205.
- Taylor, E., Sparks, D., Rukavina, M., Biddle, M., Wells, G.L. (2021). Nurse-Led Positive Psychology Intervention Is Feasible in Patients With Heart Failure. *The Journal of cardiovascular nursing*. 36, 131-135.
- Tschannen, D., Alexander, C., Taylor, S., Tovar, E.G., Ghosh, B., Zellefrow, C., Milner, K.A. (2021). Quality improvement engagement and competence: A comparison between frontline nurses and nurse leaders. *Nursing Outlook*. 69, 836-847.
- Welsh, D., Zephyr, D., Pfeifle, A.L., Carr, D.E., Fink, J.L., Jones, M. (2021). Development of the Barriers to Error Disclosure Assessment Tool. *Journal of Patient Safety*. 17, 363-374.
- Williams, L.B., Fernander, A.F., Azam, T., Gomez, M.L., Kang, J., Moody, C.L., Bowman, H., E. Schoenberg, N. (2021). COVID-19 and the impact on rural and black church Congregants: Results of the C-M-C project. *Research in Nursing and Health*. 44, 767-775.
- Williams, L.B., Looney, S.W., Joshua, T., McCall, A., Tinggen, M.S. (2021). Promoting Community Awareness of Lung Cancer Screening Among Disparate Populations: Results of the cancer-Community Awareness Access Research and Education Project. *Cancer nursing*. 44, 89-97.
- Williams, L.B., Shelton, B.J., Gomez, M.L., Al-Mrayat, Y.D., Studts, J.L. (2021). Using Implementation Science to Disseminate a Lung Cancer Screening Education Intervention Through Community Health Workers. *Journal of Community Health*. 46, 165-173.
- Williams, L.B., Surratt, H.L., King, V.L., Kern, P.A. (2021). The Disparities Researchers Equalizing Access for Minorities (DREAM) Scholars Program: Career Development for Underrepresented Health Equity Researchers. *Journal of Clinical and Translational Science*, 1-18.
- Wilson, J.L., Hampton, D., Hensley, A., Culp-Roche, A., De Jong, M.J., Chase-Cantarini, S., Wiggins, A.T. (2021). A Multicenter Study About Resilience of Nursing Students and Faculty in Online Courses. *Journal of Professional Nursing*. 37, 894-899.
- Wilson, J.L., Hensley, A., Culp-Roche, A., Hampton, D., Hardin-Fanning, F., Thaxton-Wiggins, A. (2021). Transitioning to Teaching Online During the COVID-19 Pandemic. *SAGE Open Nursing*. 7.
- Wright, M.I., Polivka, B., Odom-Forren, J., Christian, B.J. (2021). Normalization of Deviance: Concept Analysis. *Advances in Nursing Science*. 44, 171-180.
- Wu, J.-R., Moser, D.K. (2021). Health-Related Quality of Life Is a Mediator of the Relationship Between Medication Adherence and Cardiac Event-Free Survival in Patients with Heart Failure. *Journal of Cardiac Failure*. 27, 848-856.

Xie, W., Chen, L., Feng, F., Okoli, C.T.C., Tang, P., Zeng, L., Jin, M., Zhang, Y., Wang, J. (2021). The prevalence of compassion satisfaction and compassion fatigue among nurses: A systematic review and meta-analysis. *International Journal of Nursing Studies*. 120.

Yau, M.T.K., Okoli, C.T.C. (2021). Associations of tobacco use and consumption with rurality among patients with psychiatric disorders: Does smoke-free policy matter?. *Journal of Rural Health*.

New Faculty Research Profile: Adebola Adegboyega, PhD, RN



Dedicated Program of Research

Adebola Adegboyega, PhD, RN, Assistant Professor and member of the Community Health Advocacy iNterventions Generating Equity (CHANGE) Team has interest and experience in conducting health disparities and community engaged research funded by NIH as well as other private non-profit agencies. She is currently the PI of a K01 Career Development Award whose purpose is to develop and pilot test a Cervical Health Program, designed to promote screening and reduce perceived barriers to cervical cancer among African American and Sub-Saharan African immigrant women. Dr. Adegboyega is also the PI or co-I on three other studies. One of these studies focuses on improving uptake of cervical cancer prevention services in Appalachia through the delivery of a clinic-based integrated prevention program designed to target individual, social and community, health system and broader contextual-level barriers related to the burden of cervical cancer.

Research Translation

As a community engaged researcher, Dr. Adegboyega contributes her expertise and service to her community as she leads and coordinates a yearly health fair in her local church (The Redeemed Christian Church of God). This yearly health fair features health talks and screenings for the community.

Current Funding (PI and Co-I)

Sponsor	Title	Total Award Amount
National Cancer Institute (K01)	Promoting Cervical Cancer Screening among African American and Sub-Saharan African Immigrant women	\$767,140

Markey Cancer Center Support Markey Cancer Center Support Grant NCI 3P30CA177558-08S1 (Evers M., PI). Geographical Management of Cancer Health Disparities Program (GMaP) Supplement.	Black Adults' HPV knowledge, attitudes, and beliefs	\$10,000
P01 CA229143, NIH/NCI (Dignan M., MPI)	Improving Uptake of Cervical Cancer Prevention Services in Appalachia.	\$141,000
Vanderbilt Diabetes Center, Southeast Pilot and Feasibility. (Smalls B., PI,)	Diabetes Reversal Outcomes Program (Drop): An Intervention Tailored For Rural Communities	\$220,000

Select Publications

1. Adegboyega A., Desmennu A. T., & Dignan M. (2021). Qualitative assessment of attitudes toward cervical cancer (CC) screening and HPV self-sampling among African American (AA) and Sub Saharan African Immigrant (SAI) women. *Ethnicity & Health*, 1-18.
<https://doi.org/10.1080/13557858.2021.1980771>
2. Adegboyega A, Dignan M, Sha S, Nkwonta C, Williams LB.(2021). Psychological factors among Appalachian women with abnormal Pap results. *J Rural Health*. doi: 10.1111/jrh.12585. PubMed PMID: 33955052.
3. Adegboyega A, Dignan M, Hatcher J. (2019). Correlates of pap screening among sub-Saharan African immigrant (SAI) women. *Journal of Health Care for the Poor and Underserved*. 30(3):951-67.
4. Adegboyega, A., Aleshire, M., Dignan, M., & Hatcher, J. (2019). Spousal support and knowledge related to cervical cancer screening: Are Sub-Saharan African immigrant men interested?. *Health care for women international*, 40(6), 665-681.

New Faculty Research Profile: Ty Borders, PhD



Dedicated Program of Research

Ty Borders, Ph.D., is a Professor of Nursing and leading expert on rural health services and policy. He is a Fellow of the American College of Epidemiology, previously served on the National Advisory Committee on Rural Health and Human Services, and received the 2020 Outstanding Alumni Award for Career Achievement from the University of Iowa College of Public Health

Currently, Dr. Borders is Director/P.I. of the Rural & Underserved Health Research Center (RUHRC), one of seven rural health research centers funded by the Health Resources and Services Administration (HRSA). The RUHRC's mission is to advance understanding about facilitating access and improving population health in rural America, especially highly underserved rural areas and populations. Affiliated RUHRC faculty and staff include researchers from the UK Colleges of Pharmacy, Medicine, and Communication as well as the American Board of Family Medicine and the University of North Carolina at Charlotte. Current projects are addressing health disparities in family medicine settings, comparing hospitals' third-party negotiated pricing in rural and urban hospitals, and comparing rural and urban cancer survivors' follow-up care experiences.

Dr. Borders was recently awarded a grant from the National Institute on Drug Abuse to examine patients' and physicians' experiences using telehealth for the treatment of opioid use disorder (OUD). The COVID-19 pandemic forced federal regulators to rapidly change policies for prescribing medication for OUD, and many primary care professionals (PCPs) quickly changed their practices to allow for telehealth for this type of care. This study aims to examine physician and patient experiences with telehealth by interviewing 50 PCPs (nurse practitioners, physician assistants, and physicians) and surveying 250 patients in Kentucky and Arkansas.

Dr. Borders was also recently awarded a grant from the National Cancer Institute as a supplement to the long-standing Markey Cancer Center P30 (P30CA177558). Childhood cancer survivors residing in rural areas, many of whom travel to urban-based cancer treatment centers, may face particular challenges transitioning to follow-up care when returning to their home communities. This project will examine rural/urban disparities in childhood cancer survivors' organizational barriers to follow-up care by conducting qualitative interviews among 20 rural-serving PCPs (including nurse practitioners) and quantitative surveys among 200 parents (100 rural, 100 urban) of childhood cancer survivors.

Research Translation

A key mission of the RUHRC is to translate findings to rural health policy makers, practitioners, and managers as well as rural citizens. The RUHRC collaborates closely with the Federal Office of Rural Policy to disseminate policy briefs to elected officials and governmental agencies. The RUHRC also works with the UK Institute for Rural Journalism to disseminate findings to rural newspapers and other rural serving media outlets. RUHRC policy briefs have been downloaded more than 12,000 times since the first was published in October 2017. Some of the most-downloaded policy briefs include:

- *Illicit Drug and Opioid Use Disorders among Non-Metropolitan Residents*. Available at https://uknowledge.uky.edu/ruhrc_reports/3/
- *Suicidal Thoughts, Plans, and Attempts by Non-Metropolitan and Metropolitan Residence*. Available at https://uknowledge.uky.edu/ruhrc_reports/9/
- *Risky Substance Use Behaviors among Adolescents Residing in Non-Metropolitan and Metropolitan Counties in the United States, 2017-2018*. Available at https://uknowledge.uky.edu/ruhrc_reports/15/
- *Do Hospital Closures Affect Patient Time in an Ambulance?* Available at https://uknowledge.uky.edu/ruhrc_reports/8
- *Spatial Analysis of Health Care Utilization among Medicare Beneficiaries with Coal Workers' Pneumoconiosis and Other Related Pneumoconiosis*. Available at https://uknowledge.uky.edu/ruhrc_reports/17/

Information about all current RURHC projects, presentations, and publications may be found at ruhrc.uky.edu.

Selected Peer-Reviewed Publications

In addition, below are some of Dr. Borders' recent publications in peer-reviewed journals.

- Arif AA, Adeyemi O, Laditka SB, Laditka JN, Borders T. Suicide mortality rates in farm-related occupations and the agriculture industry in the United States. *American Journal of Industrial Medicine*. 2021;64(11):960-8.
- Peterson L, Morgan ZJ, Borders TF. Practice predictors of buprenorphine prescribing by family physicians. *Journal of the American Board of Family Medicine* 2020;33(1):118-23.
- Hilsenrath PE, Borders TF. Ethics and economics of the COVID-19 pandemic in the United States. *Health Services Research and Managerial Epidemiology* 2020;Sep 15;7:2333392820957661.
- Bennet KJ, Borders TF, Holmes MG, Kozhimannil K, Ziller E. What is rural, anyway? *Health Affairs* 2019 38(12): 1985-1992.
- Wen H, Borders TF, Cummings JR. Trends in buprenorphine prescriptions by physician specialty. *Health Affairs* 2019 38(1):24-28.

envision
engage
empower

751 Rose St.
315 College of Nursing Building
University of Kentucky
Lexington, KY 40536-0232

uky.edu/nursing