

## **CURRICULUM VITAE**

**Muna Hammash, PhD, RN**

**Associate Professor of Nursing**

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### **I. EDUCATION**

<b>Year</b>	<b>Institution/Location</b>	<b>Degree Earned</b>
2010	University of Kentucky, Lexington, Kentucky	PhD in Nursing
2002	University of Jordan, Amman, Jordan	MSN Clinical Nurse Specialist
1998	University of Jordan, Amman, Jordan	BSN in Nursing

### **CERTIFICATIONS**

2021	Leadership and Innovation in Academic Medicine
2021	Dean's Forum on Educational Excellence
2020	Body Mind Medicine Certificate
2020	Association of American Colleges and Universities-Qualitative Literacy Scorer Certificate
2018	University of Louisville Delphi U online teaching
2016-2107	Exploration of Active Learning Spaces & Pedagogies certificate
2014	University of Louisville Delphi 101 online course

**II. CURRENT LICENSE:** Kentucky R.N. license #1125495

### **III. PROFESSIONAL EXPERIENCE**

<b>Dates</b>	<b>Position</b>	<b>Institution/Location</b>
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2022	Associate Professor	University of Sharjah, Sharjah, UAE
2019-	Associate Professor/Tenured	University of Louisville School of Nursing, Louisville, KY
2011- 2019	Assistant Professor	University of Louisville School of Nursing, Louisville, KY
2014- 2021	Adjunct Faculty	University of Kentucky College of Nursing Lexington, KY
2011	Nursing Instructor	Bluegrass Community & Technical College, Lexington, KY
2010-2011	Postdoctoral Scholar	University of Kentucky College of Nursing, Lexington, KY
2004-2010	Research Assistant	University of Kentucky College of Nursing, Lexington, KY
2002-2004	Teaching & Research Assistant	Hashemite University College of Nursing, Zarqa, Jordan
2001-2002	Critical care nurse	Jordan Hospital, Amman, Jordan
1998-1999	Critical care nurse	University of Jordan Hospital, Amman, Jordan

#### IV. HONORS AND AWARDS

2021	University of Louisville Student Champion
2018	University of Louisville School of Nursing RN-BSN Program Outstanding Faculty Award
2015, 2021	Faculty Favorite--University of Louisville
2013	American Nurses Foundation Scholar
2008	Southern Nursing Research Society Dissertation Award

#### V. RESEARCH GRANTS

##### External Funding

2016-2021	Moser, D.K. (PI), Chung, M.L. (PI), Lennie, T., Rayens, M.K.; <b>Hammash, M.H. (Co-I)</b> . "Rural Intervention for Caregivers' Heart Health (RICHH)." NIH/NINR, 1R01 NR016824, \$2.6 million.
2017-2018	<b>Hammash, M.H. (PI)</b> , Schrader, M., Shawler, C., Crawford, T. & Moser, D.K. "Self-Care Confidence Training for Improving Treatment Adherence in Patients with Heart Failure: A Randomized Controlled Trial." American Nurses Foundation, \$31,873
2013-2014	<b>Hammash, M.H. (PI)</b> & Moser D.K. "Precipitants of Acute Exacerbation of Congestive Heart Failure." American Nurses Foundation, \$9,488

- 2008-2009 **Hammash, M.H. (PI)**, Moser D.K., Lennie, A. & Frazier, S.K. “Cardiac Rhythm during Mechanical Ventilation and Weaning from Ventilation.” The American Association of Critical Care Nurses, \$10,000
- 2009 **Hammash, M.H. (PI)** & Moser D. “Cardiac Rhythm during Mechanical Ventilation and Weaning from Ventilation.” Southern Nursing Research Society, \$3,000

### **Internal Funding**

- 2014 **Hammash, M.H. (PI)**, Crawford, T. & Moser D. “Patients’ Experiences, Attitudes, and Knowledge about Generator Replacement and Deactivation of their Implantable Cardioverter Defibrillator at the End-of-Life.” University of Louisville Research Initiation Grant, \$4,997

### **VI. SCHOLARSHIP** (most recent to least recent)

**Peer-Reviewed Publications** (students underlined; data-based unless marked with asterisk\*)

#### **Peer-Reviewed Journals**

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. *Eur J Cardiovasc Nurs*, 20(5), 454-463. doi:10.1093/eurjcn/zvaa032

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 Lung*, 50(5), 640-647. doi:10.1016/j.hrtlng.2021.05.005

Lee, K.S., **Hammash, M.**, Kim, J.H., Kang, K.W., Miller, J., McEvedy, S.M., Huang, 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. *J Cardiovasc Nurs*, 35(1), 66-73. doi:10.1097/JCN.0000000000000610

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. Profile of informal rural appalachian caregivers of patients with chronic illnesses. *Journal of Rural Health*. In Press.

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. *J Cardiovasc Nurs*, 35(6), 530-537. doi:10.1097/JCN.0000000000000684

Miller J.L., Chung, M.L., Etaaee, F., **Hammash, M. H.**, Thylén, I., Biddle, M.J., Elayi, S.C., Czarapata, M.M., McEvedy, S., Cameron, J., Haedtke, C.A., Ski, C.F., Thompson, D.R., Moser, DK. (2019). Missed opportunities! End of life decision making and discussions in

implantable cardioverter defibrillator recipients. *Heart Lung*, 48(4):313-319. doi: 10.1016/j.hrtlng.2019.04.006.

**Hammash, M.H.**, McEvedy, S. M., Wright, J., Cameron, J., Miller, J., Ski, C., Wimsatt, A., . . . Moser, D. K. (2018). Perceived control and quality of life among recipients of implantable cardioverter defibrillator. *Australian Critical Care*. <https://doi.org/10.1016/j.aucc.2018.08.005>

**Hammash, M. H.**, Crawford, T., Shawler, C., Schrader, M., Lin, C. Y., Shewekah, D., & Moser, D. K. (2017). Beyond social support: Self-care confidence is key for adherence in patients with heart failure. *European Journal of Cardiovascular Nursing*, 16(7):632-637. doi: 10.1177/1474515117705939

**Hammash, M. H.**, Lennie, T. A., Crawford, T., Heo, S., Chung, M. L., Biddle, M. J., . . . Moser, D. K. (2016). Depressive symptoms: Mediator of event-free survival in patients with heart failure. *Western Journal of Nursing Research*. doi: 10.1177/0193945916658883

\*Moser, D. K., Arslanian-Engoren, C., Biddle, M. J., Chung, M. L., Dekker, R. L., **Hammash, M. H.**, . . . Lennie, T. A. (2016). Psychological aspects of heart failure. *Current Cardiology Reports*, 18(12), 119. doi: 10.1007/s11886-016-0799-5

**Hammash, M. H.**, Moser, D. K., Frazier, S. K., Lennie, T. A., & Hardin-Pierce, M. (2015). Heart rate variability as a predictor of cardiac dysrhythmias during weaning from mechanical ventilation. *American Journal of Critical Care*, 24(2), 118-127. doi: 10.4037/ajcc2015318

Moser, D. K., Heo, S., Lee, K. S., **Hammash, M.**, Riegel, B., Lennie, T. A., . . . Watkins, J. (2013). 'It could be worse ... lot's worse!' Why health-related quality of life is better in older compared with younger individuals with heart failure. *Age and Ageing*, 42(5), 626-632. doi: 10.1093/ageing/aft078

**Hammash, M. H.**, Hall, L. A., Lennie, T. A., Heo, S., Chung, M. L., Lee, K. S., & Moser, D. K. (2013). Psychometrics of the PHQ-9 as a measure of depressive symptoms in patients with heart failure. *European Journal of Cardiovascular Nursing*, 12(5), 446-453. doi: 10.1177/1474515112468068

Lennie, T. A., Worrall-Carter, L., **Hammash, M.**, Odom-Forren, J., Roser, L. P., Smith, C. S., . . . Moser, D. K. (2008). Relationship of heart failure patients' knowledge, perceived barriers, and attitudes regarding low-sodium diet recommendations to adherence. *Progress in Cardiovascular Nursing*, 23(1), 6-11.

### **Book Chapters**

**Hammash, M.H.** & Wismatt, A. (2019). Depression, anxiety and spirituality among patients undergoing cardiac surgery. In Hardin, S.& Kaplow, R. (3<sup>rd</sup> Ed). *Cardiac surgery essentials for critical care nursing*. Burlington, MA: Jones& Bartlett Learning

### **Presentations at Conference/Organization Meetings**

### a. International Presentations

**Hammash, M.H.**, McEvedy, S. M., Wright, J., Cameron, J., Miller, J., Ski, C., Thompson, D. & Moser, D. K. (November 2021). Gender Differences in Patients' Experiences of Discussions About and Attitudes Toward Replacement and Deactivation of Their ICD at End-of-Life. *The 2021 American Heart Association Scientific Sessions*, Boston, Massachusetts. **(Moderated ePoster)**

Miller, J., **Hammash, M.H.**, Aaron, H., Czarapata, M., Lovoria, W., & Moser, D. (November 2021). Race Moderates the Relationship Between Anxiety and Quality of Life in ICD Recipients. The 2021 American Heart Association Scientific Sessions, Boston, Massachusetts. **(Moderated ePoster)**

Miller, J., **Hammash, M.H.**, Thylén, I., Ski, C., Cameron J.D., McEvedy, S., Lee, K.S., O'Donnel, S., & Moser, D. (June 2018). Depression and quality of life in implantable cardioverter defibrillator recipients: A comparative international perspective. *EuroHeart Care 2018-Euopen Society of Cardiology Congress*, Dublin, Ireland. **(Poster)**

Cameron J.D., McEvedy, S., Lugg, E., Mariani, J., Ski, C.F., Thompson, D.R., **Hammash, M.H.**, & Moser, D. (2016). Psychosocial adjustment of patients living with an internal cardioverter defibrillator. *The European Society of Cardiology*, Rome, Italy. **(Poster)**

Miller, J., Thylén, I., Biddle, M., **Hammash, M.H.**, & Moser, D.K. (September 2016). Miscommunication and misperceptions: End-of-life issues in implantable cardioverter defibrillator recipients. *Sigma Theta Tau International Leadership Connection*, Indianapolis, IN. **(Podium)**

### b. National Presentations

Smith, J.L., Chung, M.L., Miller, J., Biddle, M., Schuman, D., Rayens, M.K., Lennie, T., **Hammash, M.**, Mudd-Martin, G., & Moser, D.K. (November, 2020). Psychosocial Determinants of Health Predict Depressive Symptoms and Anxiety in Rural Caregivers. American Heart Association Scientific Sessions, A Virtual Experience.

Lin, C. Y., **Hammash, M.**, Mudd-Martin, G., Biddle, M. J., & Moser, D. K. (November 2020). Older and younger patients' perceptions, evaluations, and responses to worsening heart failure symptoms. American Heart Association Scientific Sessions, A Virtual Experience.

Lin, C.Y., **Hammash, M.H.**, Miller, J., Schrader, M. & Moser, D. (November 2019). Delay in seeking medical care for worsening heart failure symptoms: Predictors and association with cardiac events. The 2019 American Heart Association Scientific Sessions, Philadelphia, Pennsylvania. **(Poster)**

Miller, J., Chung, M., **Hammash, M.H.**, Schrader, M. & Moser, D. (November 2019). Do no harm: Defibrillator knowledge, gender, and device related concerns. The 2019 American Heart Association Scientific Sessions, Philadelphia, Pennsylvania. (**Podium**)

**Hammash, M.H.**, Miller, J., Chung, M., Crawford, T., Haedtke, C., Elayi, S., Lee, K.S., Czarapata, M., McEvedy, S., Cameron, J., Harman, J., Biddle, M. & Moser, D. (November 2017). Perceived control in patients with implantable cardioverter defibrillator: A cross-sectional survey from US and Australia. *The 2017 American Heart Association Scientific Sessions*, Anaheim, California. (**Poster**)

Miller, J., Chung, M., **Hammash, M.H.**, Elayi, S., Czarapata, M., Cameron, J., Harman, J., Biddle, M. & Moser, D. (November 2017). Event-free survival in central appalachian implantable cardioverter defibrillator recipients. *The 2017 American Heart Association Scientific Sessions*, Anaheim, California. (**Poster**)

**Hammash, M.H.**, Moser, D.K., & Shawler, C. (September 2016). Determinants of self-care confidence in patients with advanced heart failure admitted with acute exacerbation. *The 2016 Council for the Advancement of Nursing Science*, Washington, DC. (**Podium**)

**Hammash, M.H.**, Moser, D.K., & Schrader, M. (September 2016). Self-care confidence and perceived social support predict adherence to self-care in patients with chronic heart failure admitted with acute exacerbation of symptoms. *The 2016 Council for the Advancement of Nursing Science*, Washington, DC. (**Podium**)

**Hammash, M.H.**, Moser, D.K., & Shawler, C. (November 2016). Social support is important, but self-care confidence is the key for better treatment adherence in patients with chronic heart failure admitted with acute exacerbation. *The 2016 American Heart Association Scientific Sessions*, New Orleans, Louisiana. (**Poster**)

Biddle, M., Kang, J.H., Miller, J., **Hammash, M.H.**, Cameron, J., Chung, M. & Moser, D. (November 2016). Implantable cardioverter defibrillator recipient's perceptions of healthcare provider's discussions related to device therapy. *The 2016 American Heart Association Scientific Sessions*, New Orleans, Louisiana. (**Podium**)

Miller, J., Thylen, I., Biddle, M., Bailey, A., **Hammash, M.H.** & Moser, D.K. (November 2015). Missed opportunities! End-of-life discussions and implantable cardioverter defibrillator Recipients. *The 2015 American Heart Association's Scientific Sessions*, Orlando, Florida. (**Podium**)

**Hammash, M.H.**, Thylen, I., Biddle, M., Bailey, A., Miller, J., & Moser, D. (November 2015). Cognitive dysfunction and patients' attitudes toward generator replacement and deactivation of their implantable cardioverter defibrillator at the end-of-life. *The 2015 American Heart Association's Scientific Sessions*, Orlando, Florida. (**Poster**)

**Hammash, M.H.**, Moser, D.K., Lennie, T.A., Chung, M.L., & Heo, S. (September 2014). Depressive symptoms mediate the relationship between health perception and event-free

survival in patients with heart failure. *The 2014 Council for the Advancement of Nursing Science*, Washington, DC. **(Podium)**

**Hammash, M.H.**, Moser, D., Lennie, T.A. & Frazier, S.K. (May 2011). Cardiac rhythm during mechanical ventilation and weaning from ventilation. The 2011 National Teaching Institute and Critical Care Exposition Conference in Chicago, IL. **(Podium)**

**c. Regional Presentations**

**Hammash, M.H.**, Moser, D.K., Lennie, T.A., Chung, M.L., & Heo, S. (2009). Psychometrics of the Patient Health Questionnaire for the measurement of depressive symptoms in patients with heart failure. *The 23<sup>th</sup> Annual Southern Nursing Research Society Conference*, Baltimore, MD. **(Poster)**

**d. State Presentations**

**Hammash, M.H.** & DeLetter, M. (2019). Global health: Disparities and social determinants-Online interprofessional course. *Inaugural Conference of the Tennessee Chapter of the National Association for Multicultural Education*, Cookeville, Tennessee. **(Podium)**

**Hammash, M.H.**, Moser, D.K., Lennie, T.A., Chung, M.L., & Heo, S. (2009). Psychometrics of the Patient Health Questionnaire for the measurement of depressive symptoms in patients with heart failure. *The Gill Heart Institute Cardiovascular Research Day*, Lexington, KY. **(Poster)**

**e. Local Presentations**

Deck, J. & **Hammash, M.H.** (April, 2017). Self-care confidence as a predictor of all-cause mortality in patients with acute exacerbation of heart failure. University of Louisville Undergraduate Research Symposium, Louisville, KY. **(Poster)**

**Hammash, M.H.**, Moser, D.K., & Shawler, C. (2016). Social support is important, but self-care confidence is the key for better treatment adherence in patients with chronic heart failure admitted with acute exacerbation. *Research!Louisville*, Louisville, KY. **(Poster)**

**Hammash, M.H.**, Moser, D.K., Lennie, T.A. & Frazier, S.K. (2012). Heart rate variability predicts length of ventilation in mechanically ventilated patients. *Research!Louisville, University of Louisville*, Louisville, KY. **(Poster)**

## **IX. SERVICE TO THE UNIVERSITY**

### **University Committees**

2012-2013	Member, University Diversity Committee
2015-2017	Member, SACS University Accreditation Committee
2016	Member, President's Distinguished Faculty Awards Selection Committee

2015-2017	Member, Library Advisory Board, SON Representative
2018-2021	Member, Cardinal Core Curriculum Committee, SON Representative
2021-current	Member, Faculty Grievance Committee

### **Health Sciences Center Committees**

2016 School of Nursing Representative, Graduate Certificate in Health Professions Education Program

### **School of Nursing Committees/Task Forces**

2021-2022	Chair, Diversity Committee
2021-2022	Chair, RN-BSN Academic Affairs Council
2021-2022	Member, Cardinal CREW
2020	Member, 2020 Course Delivery Task force
2020-2021	Co-Chair, Appointment, Promotion and Tenure Committee
2019- 2020	Member, Appointment, Promotion and Tenure Committee
2019-2020	Member, Doctoral Affairs Committee
2018-2019	Member, BSN-MSN Academic Affairs Committee
2017-2018	Co-Chair, Faculty Affairs Committee
2017	Member, Medication Calculation Exam Task Force
2016- 2017	Co-chair, Faculty Affairs Committee
2016-2017	Member, Traditional Curriculum Review Taskforce
2014	Secretary, Faculty Organization
2013-2015	Member, Faculty Affairs Committee
2014-2015	Member, Faculty Search Committee
2015 Summer	Chair, Faculty Search Committee
2012-2013	Chair, Diversity Committee
2011-2012	Member, Diversity Committee
2011-2013	Member, Curriculum Committee
2011-2014	Member, Undergraduate Program Committee

## **X. SERVICE TO THE PROFESSION**

### **Memberships in Professional Organizations**

2021-2024	Member, American Heart Association CVSN Development Committee
2021-current	Member, Kentucky Nurses Association Education and Research Cabinet
2017-2018	President, Preventive Cardiovascular Nursing Association--Kentuckiana Chapter
2016-2018,	Counselor, Sigma Theta Tau, Iota Zeta Chapter
2019-2021	
2017-2018	Member, Southern Nursing Research Society Award Committee
2013-Present	Member, American Heart Association
2013- Present	Member, American Nurses Foundation
2011-Present	Member, Sigma Theta Tau International (Delta Psi Chapter, Iota Zeta Chapter)
2009-2013	Member, American Association of Critical Care Nurses
2008-Present	Member, Southern Nursing Research Society



### **Scientific Grant Reviewer**

2015, 2016 American Nurses Foundation

### **Manuscript Reviewer**

2014- Present *Heart & Lung: Journal of Acute and Critical Care*

2015- Present *Journal of Critical Care*

2015- Present *The Journal of Cardiovascular Nursing*

### **Abstract Reviewer**

2021 2021 University of Louisville Celebration of Teaching and Learning Proposal Reviewer

2016, 2017, 2018, 2019, 2020, 2021, 2022 American Heart Association Scientific Sessions

2014 Council for the Advancement of Nursing Science: 2014 State of the Science Conference