

Curriculum Vitae**Mohammad O. Alrawashdeh, PhD, MSN****Home Address:** Irbid, Jordan**Citizenship:** Jordan, USA**Business Address:** - Jordan University of  
Science and Technology,  
Irbid, Jordan  
- Department of Population  
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[moalrawashdeh@just.edu.jo](mailto:moalrawashdeh@just.edu.jo)  
[mohammad\\_alrawashdeh@hms.harvard.edu](mailto:mohammad_alrawashdeh@hms.harvard.edu)Education

2018 - present	Postdoctoral studies	Department of Population Medicine, Harvard Medical School, Boston, MA
2012 - 2017	PhD (Health Informatics and Data Analytics)	School of Nursing University of Pittsburgh, Pittsburgh, PA
2010 - 2012	MSN (Nursing & Healthcare Management/ Health Informatics)	School of Nursing Kent State University, Kent, OH
2004 - 2008	BSN (Nursing)	School of Nursing Jordan University of Science and Technology, Irbid, Jordan

Other Relevant Educational Training

2020	Interactive Teaching Strategies	United Nations Fund for Population Activities, Amman, Jordan
2016 - 2017	Statistical/ Machine learning (Online)	Department of Statistics Stanford University, Stanford, CA
2016	HIT Update: Healthcare Data Analytics (Online)	Department of Medical Informatics & Clinical Epidemiology, Oregon Health and Science University, Portland, OR

2016 Special Topics in Human Computer Interaction - Mobile Health (4 cr. hours) School of Computer Science Carnegie Mellon University, Pittsburgh, PA

**Appointments and Positions**

**Academic**

2018 - present	Post-Doctoral Research Fellow	Department of Population Medicine, Harvard Medical School
2018 - present	Assistant Professor	Jordan University of Science and Technology
2017 - 2021	Adjunct Assistant Professor	University of Pittsburgh School of Nursing
2017	Pre-Doctoral Fellow, NIH T32	University of Pittsburgh School of Medicine Faculty/ Advisor: Dr. Francis Guyette
2016	Pitt-O’Neil Fellow	GetWellNetwork, Bethesda, MD Mentor/ Advisor: Dr. Karen Drenkard
2015- 2017	Pre-Doctoral Fellow, NIH T32 - Technology	University of Pittsburgh School of Nursing Faculty/ Advisor: Dr. Annette DeVito Dabbs
2014 - 2017	GSR/ Project Manager	University of Pittsburgh School of Nursing Faculty/Supervisor: Dr. Salah Al-Zaiti
2014 - 2017	Research Coordinator/ Statistician	University of Pittsburgh Medical Center Faculty/Supervisor: Dr. Shelley Watters
2012 - 2015	Student Researcher	University of Pittsburgh School of Nursing Faculty/ Advisor: Dr. Annette DeVito Dabbs
2011 - 2012	Research Assistant	Kent State University, School of Nursing Faculty/Supervisor: Tracey Motter
2008 - 2010	Teaching Assistant and Clinical Instructor	Jordan University of Science and Technology, School of Nursing, Irbid, Jordan  Faculty/Supervisor: Dr. Muntaha Gharaibeh

**Funded Research Projects**

**Principal Investigator**

<i>Funding Agency</i>	International Society of Heart and Lung Transplantation	2016-2017
<i>Grant Type</i>	Nursing, Health Sciences and Allied Health Research Award	
<i>Project Title</i>	“Clinicians’ Acceptance of Interactive Health Technologies to Support Patients’ Self-Management”	

*Description* This mixed-methods study examines a modified theoretical model to explain clinician’s intentions to use web-portals for the support of patients using mobile applications.

Total Cost=\$12,000

**Principal Investigator**

*Funding Agency* Margaret Wilkes Scholarship Award, University of Pittsburgh 2015-2017

*Grant Type* Competitive Nursing Research Fund

*Project Title* “Clinicians’ Acceptance of Interactive Health Technologies to Support Patients’ Self-Management”

*Description* This mixed-methods study examines a modified theoretical model to explain clinician’s intentions to use web-portals for the support of patients using mobile applications.

Total Cost=\$3,000

**Project Manager/ Data Analyst**

*Funding Agency* Office of Research, University of Pittsburgh 2016-2018

*Grant Type* Central Research Development Fund

*Project Title* “Non-ST Elevation Myocardial Ischemia: The Role of Cell Survival Genes”

*Description* This study examines the molecular genetic basis of how cells are preconditioned to survive death on the evolution of ST elevation in NSTEMI.

Total Cost=\$16,000

**Project Manager/ Data Analyst**

*Funding Agency* University of Pittsburgh Medical Center (UPMC) 2015-2016

*Grant Type* Competitive Medical Research Fund (CMRF)

*Project Title* “ECG Methods for the Prehospital Identification of NSTEMI: Feasibility Study”

*Description* This pilot study aimed to evaluate the feasibility of using novel metrics of ECG repolarization to detect NSTEMI during prehospital care.

Total Cost=\$24,000

**Project Manager/ Data Analyst**

*Funding Agency* Center for Medical Innovation, University of Pittsburgh 2015-2016

*Grant Type* Early Stage Medical Technology Research & Development (F-082-2014)

*Project Title* “Stratifying Prehospital ECGs for Treatment Decisions at Emergency Departments (SPEED)”

*Description* This pilot study established the feasibility of developing new signal processing methods for the acquisition, transmission, and analysis of prehospital ECGs in 15-ambulance EMS system in Pittsburgh PA area.

Total Cost=\$12,000

**Student Researcher/ Data Analyst**

<i>Funding Agency</i>	NIH/NINR	2012-2015
<i>Grant Type</i>	R01 NR010711-DeVito Dabbs, PI	
<i>Project Title</i>	“Pocket PATH: A Computerized Intervention to Promote Self-Care”	
<i>Description</i>	This study developed and examined the use an innovative mobile phone intervention to promote patient engagement, self-management and health outcomes in chronic illness populations.	

**Co-Investigator**

<i>Funding Agency</i>	Shadyside Hospital Foundation	2016-2017
<i>Grant Type</i>	Quality Improvement and Research Development Fund	
<i>Project Title</i>	“Evidence Based Practice to Research: Nursing Research Internship”	
<i>Description</i>	This Internship is designed to provide time and mentoring to nurses in order to study and develop competence in conducting research projects.	

Total Cost=\$45,000

**Co-Investigator/ Data Analyst**

<i>Funding Agency</i>	Shadyside Hospital Foundation	2015-2016
<i>Grant Type</i>	Quality Improvement and Research Development Fund	
<i>Project Title</i>	“The use of smartphone technology in cardiac rehab”	
<i>Description</i>	This pilot study aimed to evaluate the impact of using a smartphone application on attendance and clinical outcomes for patients participating in a site-based CR by enriching the standard program with smartphone technology.	

Total Cost=\$9,000

**Publications**

\* I served as data analyst/ statistician for all publications.

**Published Refereed Articles**

1. **Alrawashdeh M**, Rhee C, Klompas M, Larochelle MR, Poland RE, Guy JS, Kimmel SD. Association of Early Opioid Withdrawal Treatment Strategy and Patient-Directed Discharge Among Hospitalized Patients with Opioid Use Disorder. *Journal of General Internal Medicine*. Feb 14 2023;doi:10.1007/s11606-023-08059-w
2. Al-Zaiti S, Martin-Gill C, Zègre-Hemsey J, Bouzid Z, Faramand Z, **Alrawashdeh M**, Gregg R, Helman S, Riek N, Kraevsky-Phillips K. Machine Learning for the ECG Diagnosis and Risk Stratification of Occlusion Myocardial Infarction at First Medical Contact. *Submitted to Nature Medicine*. 2023.
3. Ikbariyeh B, Al Habashneh R, Khassawneh B, **Alrawashdeh M**, Elsalem L, Al-Nusair J. Clinical and biological indicators of periodontal disease in obese and non-obese adults with and

- without bronchial asthma. *Journal Asthma*. Sep 2022;59(9):1758-1766.  
doi:10.1080/02770903.2021.1962907
4. Faramand Z, **Alrawashdeh M**, Helman S, Bouzid Z, Martin-Gill C, Callaway C, Al-Zaiti S. Your neighborhood matters: A machine-learning approach to the geospatial and social determinants of health in 9-1-1 activated chest pain. *Research in Nursing & Health*. Apr 2022;45(2):230-239. doi:10.1002/nur.22199
  5. **Alrawashdeh M**, Klompas M, Simpson SQ, Kadri SS, Poland R, Guy JS, Perlin JB, Rhee C, Program CDCPE. Prevalence and Outcomes of Previously Healthy Adults Among Patients Hospitalized With Community-Onset Sepsis. *Chest*. Jul 2022;162(1):101-110. doi:10.1016/j.chest.2022.01.016
  6. **Alrawashdeh M**, Klompas M, Rhee C. Response. *Chest*. Jul 2022;162(1):e64-e65. doi:10.1016/j.chest.2022.02.047
  7. Abuhammad S, Hatamleh R, **Alrawashdeh M**, Alrabadi N, Mukattash T, Abuhammad M, Howard K. Personal attributes and attitudes to substance use disorder: A study among Jordanian undergraduate medical majors students. *PLoS One*. 2022;17(2):e0263442. doi:10.1371/journal.pone.0263442
  8. Wu H, Kapur A, Gibson B, Bubb K, **Alrawashdeh M**, Cipkala-Gaffin J. Preoperative delirium nursing model initiatives to determine the incidence of postoperative delirium among elderly orthopaedic patients. *Orthopaedic Nursing*. 2021;40(2):81-88.
  9. **Alrawashdeh M**, Rhee C, Hsu H, Wang R, Horan K, Lee GM. Assessment of Federal Value-Based Incentive Programs and In-Hospital Clostridioides difficile Infection Rates. *JAMA Network Open*. Oct 1 2021;4(10):e2132114. doi:10.1001/jamanetworkopen.2021.32114
  10. **Alrawashdeh M**, Klompas M, Kimmel S, Laroche MR, Gokhale RH, Dantes RB, Hoots B, Hatfield KM, Reddy SC, Fiore AE, Septimus EJ, Kadri SS, Poland R, Sands K, Rhee C, Program CDCPE. Epidemiology, Outcomes, and Trends of Patients With Sepsis and Opioid-Related Hospitalizations in U.S. Hospitals. *Critical Care Medicine*. Dec 1 2021;49(12):2102-2111. doi:10.1097/CCM.0000000000005141
  11. Mormer E, Bubb KJ, **Alrawashdeh M**, Cipkala-Gaffin JA. Hearing Loss and Communication Among Hospitalized Older Adults: Prevalence and Recognition. *Journal of Gerontological Nursing*. Jun 1 2020;46(6):34-42. doi:10.3928/00989134-20200316-03
  12. Al-Dwaikat TN, **Alrawashdeh M**, Baker NA, Al Ali NM. Development and psychometric evaluation of Nurses and Midwives' Perceptions of their Roles in Primary Healthcare. *International Journal of Nursing Sciences*. 2020;7(4):460-465.
  13. Rivero D, Alhamaydeh M, Faramand Z, **Alrawashdeh M**, Martin-Gill C, Callaway C, Drew B, Al-Zaiti S. Nonspecific electrocardiographic abnormalities are associated with increased length of stay and adverse cardiac outcomes in prehospital chest pain. *Heart & Lung*. Mar-Apr 2019;48(2):121-125. doi:10.1016/j.hrtlng.2018.09.001
  14. Faramand Z, Frisch SO, Martin-Gill C, Landis P, **Alrawashdeh M**, Al-Robaidi KA, Callaway CW, Al-Zaiti SS. Diurnal, weekly and seasonal variations of chest pain in patients transported by emergency medical services. *Emergency Medical Journal*. Oct 2019;36(10):601-607. doi:10.1136/emered-2019-208529

15. Faramand Z, Frisch SO, DeSantis A, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti S. Lack of Significant Coronary History and ECG Misinterpretation Are the Strongest Predictors of Undertriage in Prehospital Chest Pain. *Journal of Emergency Nursing*. Mar 2019;45(2):161-168. doi:10.1016/j.jen.2018.10.007
16. Al-Zaiti SS, Faramand Z, **Alrawashdeh M**, Sereika SM, Martin-Gill C, Callaway C. Comparison of clinical risk scores for triaging high-risk chest pain patients at the emergency department. *American Journal of Emergency Medicine*. Mar 2019;37(3):461-467. doi:10.1016/j.ajem.2018.06.020
17. Lakdawala L, Dickey B, **Alrawashdeh M**. Obstructive Sleep Apnea Screening Among Surgical Patients: A Quality Improvement Project. *Journal of Perianesthesia Nursing*. Dec 2018;33(6):814-821. doi:10.1016/j.jopan.2017.12.003
18. **Alrawashdeh M**, Zomak R, Dew MA, Sereika S, Song MK, Pilewski JM, DeVito Dabbs A. Pattern and Predictors of Hospital Readmission During the First Year After Lung Transplantation. *American Journal of Transplantation*. May 2017;17(5):1325-1333. doi:10.1111/ajt.14064
19. Al-Zaiti SS, **Alrawashdeh M**, Martin-Gill C, Callaway C, Mortara D, Nemeč J. Evaluation of beat-to-beat ventricular repolarization lability from standard 12-lead ECG during acute myocardial ischemia. *Journal of Electrocardiology*. Nov-Dec 2017;50(6):717-724. doi:10.1016/j.jelectrocard.2017.08.002
20. Fatigati A, **Alrawashdeh M**, Zaldonis J, Dabbs AD. Patterns and Predictors of Sleep Quality Within the First Year After Lung Transplantation. *Progress in Transplantation*. Mar 2016;26(1):62-9. doi:10.1177/1526924816632123
21. DeVito Dabbs A, Song MK, Myers BA, Li R, Hawkins RP, Pilewski JM, Bermudez CA, Aubrecht J, Begey A, Connolly M, **Alrawashdeh M**, Dew MA. A Randomized Controlled Trial of a Mobile Health Intervention to Promote Self-Management After Lung Transplantation. *American Journal of Transplantation*. Jul 2016;16(7):2172-80. doi:10.1111/ajt.13701
22. Zaldonis J, **Alrawashdeh M**, Atman KS, Fatigati A, Dabbs AD, Bermudez CA. Predictors and influence of goal orientation on self-management and health-related quality of life after lung transplant. *Progress in Transplantation* (Aliso Viejo, Calif). Sep 2015;25(3):230-42. doi:10.7182/pit2015189
23. Al-Zaiti SS, Martin-Gill C, Sejdic E, **Alrawashdeh M**, Callaway C. Rationale, development, and implementation of the Electrocardiographic Methods for the Prehospital Identification of Non-ST Elevation Myocardial Infarction Events (EMPIRE). *Journal of Electrocardiology*. Nov-Dec 2015;48(6):921-6. J Electrocardiol. doi:10.1016/j.jelectrocard.2015.08.014

### **Published Abstracts & Proceedings**

1. **Alrawashdeh M**, Rhee C, Hsu H, Lee G. Association Between Federal Value-Based Incentive Program Implementation and Hospital-Onset *C. difficile* Infection Rates. *Infection Control & Hospital Epidemiology*. 2020;41(S1):s133-s133.

2. **Alrawashdeh M**, Klompas M, Kimmel S, Laroche M, Septimus E, Kadri S, Poland R, Sands K, Rhee C. 56: Epidemiology, Outcomes, and Trends of Sepsis in Patients with Opioid Use Disorders in U.S. Hospitals. *Critical Care Medicine*. 2020;48(1):28-28. doi:10.1097/01.ccm.0000618724.61285.b0
3. Faramand Z, Martin-Gill C, **Alrawashdeh M**, Gregg R, Callaway C, Al-Zaiti S. Understanding The Demographic and Clinical Correlates of Quantitative Repolarization Parameters in Patients with Cardiovascular Risk Factors. *Journal of Electrocardiology*. April 2019;57:S122-S123.
4. Dabbs AJD, Irizarry T, **Alrawashdeh M**, Pilewski JM, Morrell M, D'Cunha J, Dew M. Lung Transplant Clinicians' Perceptions of Pocket PATH Synergy, an Interactive Health Technology (IHT) to Monitor Patients Remotely. *The Journal of Heart and Lung Transplantation*. 2019;38(4)doi:10.1016/j.healun.2019.01.482
5. **Alrawashdeh M**, Molina MR, Beckmann S, Denhaerynck K, Dobbels F, De Geest S. The BRIGHT Study Shows Geographical Disparities in Body Mass Index among Heart Transplant Recipients. *The Journal of Heart and Lung Transplantation*. 2019;38(4):S217-S218. doi:10.1016/j.healun.2019.01.531
6. **Alrawashdeh M**, Klompas M, Simpson SQ, Kadri SS, Poland R, Sands K, Rhee C. 891. Epidemiology and Outcomes of Sepsis in Previously Healthy Patients. *Open Forum of Infectious Diseases*. 2019;6(Supplement\_2):S22-S23. doi:10.1093/ofid/ofz359.050
7. Al-Zaiti SS, Faramand Z, Martin-Gill C, **Alrawashdeh M**, Gregg R, Callaway C. Beyond the ST-Segment: Novel Methods to Quantify Acute Myocardial Ischemia in Patients with Suspected Acute Coronary Syndrome. *Journal of Electrocardiology*. April 2019;57:S110-S111.
8. Al-Zaiti S, Frisch S, Besomi L, Faramand Z, **Alrawashdeh M**, Martin-Gill C, Callaway C, Gregg RE, Lux R, Sejdic E. Electrocardiographic Methods for the Prompt Identification of Coronary Events (EMPIRE): Algorithm Testing & Validation on an Independent Training Cohort. *Journal of Electrocardiology*. April 2019;57:S104.
9. Frisch SO, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti S. Geospatial Analysis of Chest Pain Patients That Call 9-1-1. *Circulation*. 2018;138(Suppl\_1):A16400-A16400.
10. Devito Dabbs AJ, Dew M, **Alrawashdeh M**, Zaldonis D, D'Cuna J, Pilewski J. Trajectory Analysis of Self-Reported Adherence to Home Spirometry After Lung Transplantation. *The Journal of Heart and Lung Transplantation*. 2018/04/01/ 2018;37(4):S301-S302. doi:10.1016/j.healun.2018.01.766
11. **Alrawashdeh M**, Zomak R, Al-Zaiti S, Sereika S, Parmanto B, Dabbs AD. Clinicians' Acceptance of Interactive Health Technologies for Self-Management among Patients with Chronic Cardiopulmonary Disorders. *The Journal of Heart and Lung Transplantation*. 2018;37(4):S37-S38.
12. Frisch S, Martin-Gill C, **Alrawashdeh M**, Callaway C, Al-Zaiti SS. Abstract 18707: Incidence and Predictors of Delaying Seeking Emergent Medical Care Among Patients With Suspected Acute Coronary Syndrome. *Circulation*. November 2017;136:A18707-A18707.
13. Faramand Z, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti SS. Abstract 19451: Evaluating the Diagnostic Accuracy of Clinical Risk Scores to Detect Acute Coronary

- Syndrome in Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. *Circulation*. November 2017;136:A19451-A19451.
14. DeSantis A, Landis P, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti SS. Abstract 18641: Predictors of Emergency Medical Personnel's Decision to Transmit or Not to Transmit the Prehospital 12-Lead ECG of Patients With Suspected Acute Myocardial Infarction. *Circulation*. November 2017;136:A18641-A18641.
  15. Cipkala-Gaffin J, Kuchta D, Hess V, **Alrawashdeh M**, Hanchett S. Transforming End-of-Life Care at The Bedside: An Online and Interactive Approach to Education for Oncology Nurses. *Oncology Nursing Forum*. March 2017;44(2)
  16. **Alrawashdeh M**, Choi J, Dabbs AD. A Trajectory Analysis of Adherence to Recommended Exercise Following Lung Transplantation. *The Journal of Heart and Lung Transplantation*. 2017;36(4):S132.
  17. Alhamaydeh M, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti SS. Abstract 18689: Time of Day and Day of Week Variations in Chest Pain Encounters at the Prehospital Setting. *Circulation*. November 2017;136:A18689-A18689.
  18. Goodwin K, Malecky A, Cipkala-Gaffin J, Ledyard J, **Alrawashdeh M**. Third Place: Screening for Depression and Quality of Life in Cardiac Rehabilitation. *The Journal of Cardiovascular Nursing*. 2016 2016;31(1):12-12.
  19. Baird E, Cipkala-Gaffin JA, **Alrawashdeh M**. Impact of Oncology Communication Skills Training on the Bedside Oncology Nurse. *Oncology Nursing Forum*. 2016;43(2):103-103.
  20. **Alrawashdeh M**, Al-Zaiti S, Sejdic E, Martin-Gill C, Callaway C. Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients. *Nursing Research*. 2016;65(2):E94-E94.
  21. Alhamaydeh M, Rivero D, **Alrawashdeh M**, Martin-Gill C, Callaway C, Al-Zaiti SS. Abstract 15745: Electrocardiographic Characteristics of Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. *Circulation*. November 2016;134:A15745-A15745.
  22. Al-Zaiti SS, **Alrawashdeh M**, Rivero D, Martin-Gill C, Callaway C. Widened QRS-T Angle on the Presenting 12-lead ECG Indicates non-ST Elevation Myocardial Infarction in Patients with Chest Pain. *Journal of Electrocardiology*. 2016;49(6):925. doi:10.1016/j.jelectrocard.2016.09.013
  23. Fatigati A, **Alrawashdeh M**, DeVito Dabbs A, Zaldonis J, Bermudez C. Predictors and Outcomes of Sleep Quality the First Year After Lung Transplantation. *The Journal of Heart and Lung Transplantation*. Apr 2015;34(4):S237-S238. doi:10.1016/j.healun.2015.01.657
  24. **Alrawashdeh M**, DeVito Dabbs A, Dew M, Song M, Zomak R, Pilewski J, Bermudez C. Predictors of Discharge Destination After Lung Transplantation. *The Journal of Heart and Lung Transplantation*. Apr 2015;34(4):S73-S73. doi:10.1016/j.healun.2015.01.189
  25. **Alrawashdeh M**, DeVito Dabbs A. Predictors of Anxiety and Depression during the First 2 Months after Lung Transplantation. *The Journal of Heart and Lung Transplantation*. Apr 2014;33(4):S190-S190. doi:10.1016/j.healun.2014.01.514



26. Zomak R, Whiteman S, Keddie L, Meyer K, Feinberg A, Speicher F, Bermudez C, Pilewski J, **Alrawashdeh M**, DeVito Dabbs A. Pattern and Predictors of Hospital Readmission after Lung Transplantation. *The Journal of Heart and Lung Transplantation*. Apr 2013;32(4):S44. doi:10.1016/j.healun.2013.01.915

### Talks and Presentations

\*\* denotes my role as a main presenter

1. **\*\*Alrawashdeh, M.**, Klompas, M., Simpson, S. Q., Kadri, S. S., Poland, R., Sands, K., & Rhee, C. (2022, July). Prevalence and Outcomes of Previously Healthy Adults Among Patients Hospitalized with Community-Onset Sepsis. YouTube interview with CHEST Journal: <https://youtu.be/WK8MScMZako>.
2. **\*\*Alrawashdeh, M.**, Klompas, M., Kimmel, S., Larochelle, M., Septimus, E., Kadri, S., . . . Rhee, C. (2020, February). 56: Epidemiology, Outcomes, and Trends of Sepsis in Patients with Opioid Use Disorders in US Hospitals. Star Award podium presentation at the Annual Congress for the Society of Critical Care Medicine in Orlando, Florida, USA.
3. **Alrawashdeh, M.**, Klompas, M., Simpson, S., Kadri, S., Poland, R., Sands, K., Rhee, C. (2019, October). Epidemiology and Outcomes of Sepsis in Previously Healthy Patients. Podium presentation at the IDWeek Annual Meeting in Washington DC., USA.
4. **\*\*Alrawashdeh, M.**, Molina, M. R., Beckmann, S., Denhaerynck, K., Dobbels, F., & De Geest, S. (2019, April). The BRIGHT Study Shows Geographical Disparities in Body Mass Index among Heart Transplant Recipients. Podium presentation at the 39<sup>th</sup> Annual Scientific Meeting of the International Society for Heart and Lung Transplantation in Orlando, Florida, USA.
5. Al-Zaiti, S., Frisch, S., Besomi, L., Faramand, Z., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., Gregg, R. E., Lux, R., & Sejdic, E. (2019, April). Electrocardiographic Methods for the Prompt Identification of Coronary Events (EMPIRE): Algorithm Testing & Validation on an Independent Training Cohort. Presented at the International Society for Computerized Electrocardiology 44th Annual Conference in Atlantic Beach, Florida, USA.
6. Faramand, Z., Martin-Gill, C., **Alrawashdeh, M.**, Gregg, R., Callaway, C., & Al-Zaiti, S. (2019, April). Understanding The Demographic and Clinical Correlates of Quantitative Repolarization Parameters in Patients with Cardiovascular Risk Factors. Presented at the International Society for Computerized Electrocardiology 44th Annual Conference in Atlantic Beach, Florida, USA.
7. Al-Zaiti, S. S., Faramand, Z., Martin-Gill, C., Alrawashdeh, M., Gregg, R., & Callaway, C. (2019, April). Beyond the ST-Segment: Novel Methods to Quantify Acute Myocardial Ischemia in

- Patients with Suspected Acute Coronary Syndrome. Presented at the International Society for Computerized Electrocardiology 44th Annual Conference in Atlantic Beach, Florida, USA.
8. Dabbs, A. J. D., Irizarry, T., **Alrawashdeh, M.**, Pilewski, J. M., Morrell, M., D'Cunha, J., & Dew, M. (2019, April). Lung Transplant Clinicians' Perceptions of Pocket PATH Synergy, an Interactive Health Technology (IHT) to Monitor Patients Remotely. Podium presentation at The Annual Scientific Meeting of the 39<sup>th</sup> International Society for Heart and Lung Transplantation in Orlando, Florida, USA.
  9. Frisch, S. O., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., & Al-Zaiti, S. (2018, November). Geospatial Analysis of Chest Pain Patients That Call 9-1-1. Presented at The American Heart Association's 2018 Scientific Sessions in Chicago, Illinois, USA.
  10. \***Alrawashdeh, M.**, Zomak, R., Al-Zaiti, S., Sereika, S. M., Parmanto, B., DeVito Dabbs, A. (2018, April). Clinicians' Acceptance of Interactive Health Technologies for Self-Management Among Patients with Chronic Cardiopulmonary Disorders. Podium presentation at the 38<sup>th</sup> Annual Scientific Meeting of the International Society for Heart and Lung Transplantation in Nice, France.
  11. Alhamaydeh, M., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., & Al-Zaiti, S. S. (2017, November). Abstract 18689: Time of Day and Day of Week Variations in Chest Pain Encounters at the Prehospital Setting. Presented at the American Heart Association's 2017 Scientific Sessions and Resuscitation Science Symposium in Anaheim, California, USA.
  12. DeSantis, A., Landis, P., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., & Al-Zaiti, S. S. (2017, November). Abstract 18641: Predictors of Emergency Medical Personnel's Decision to Transmit or Not to Transmit the Prehospital 12-Lead ECG of Patients with Suspected Acute Myocardial Infarction. Presented at the American Heart Association's 2017 Scientific Sessions and Resuscitation Science Symposium Anaheim, California, USA.
  13. Frisch, S., Martin-Gill, C., **Alrawashdeh, M.**, Callaway, C., & Al-Zaiti, S. S. (2017, November). Abstract 18707: Incidence and Predictors of Delaying Seeking Emergent Medical Care Among Patients with Suspected Acute Coronary Syndrome. Presented at the American Heart Association's 2017 Scientific Sessions and Resuscitation Science Symposium in Anaheim, California, USA.
  14. Faramand, Z., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., & Al-Zaiti, S. S. (2017, November). Abstract 19451: Evaluating the Diagnostic Accuracy of Clinical Risk Scores to Detect Acute Coronary Syndrome in Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. Presented at the American Heart Association's 2017 Scientific Sessions and Resuscitation Science Symposium in Anaheim, California, USA.
  15. \*\***Alrawashdeh, M.**, Choi, J., & DeVito Dabbs, A. (2017, April). A Trajectory Analysis of Adherence to Recommended Exercise Following Lung Transplantation. Podium presentation

at the Annual Scientific Meeting of the 37<sup>th</sup> International Society for Heart and Lung Transplantation in San Diego, California, USA.

16. Cipkala-Gaffin, J., Kuchta, D., Hess, V., **Alrawashdeh, M.**, & Hanchett, S. (2017, March). Transforming End-of-Life Care at The Bedside: An Online and Interactive Approach to Education for Oncology Nurses. Poster presentation at the Oncology Nursing Forum in Denver, Colorado, USA.
17. **\*\*Al-Zaiti, S. S., Alrawashdeh, M.,** Rivero, D., Martin-Gill, C., & Callaway, C. (2016, November). Widened QRS-T Angle on the Presenting 12-lead ECG Indicates non-ST Elevation Myocardial Infarction in Patients with Chest Pain. Poster presentation at the q-Med: Celebrating Pittsburgh's Biomedical Modeling Community, Pittsburgh, Pennsylvania, USA.
18. Alhamaydeh, M., Rivero, D., **Alrawashdeh, M.**, Martin-Gill, C., Callaway, C., & Al-Zaiti, S. S. (2016, November). Abstract 15745: Electrocardiographic Characteristics of Patients Evaluated at the Emergency Department for a Chief Complaint of Chest Pain. Presented at the American Heart Association's 2016 Scientific Sessions and Resuscitation Science Symposium in New Orleans, Louisiana, USA.
19. **\*\*Alrawashdeh, M.,** Zomak, R., & DeVito Dabbs, A. (2016, October). Risk Factors for Prolonged Ventilatory Support After Lung Transplantation. Podium presentation at the International Transplant Nurses Society in Pittsburgh, Pennsylvania, USA.
20. **\*\*Werner, M., Hu, L., Alrawashdeh, M.,** & DeVito Dabbs, A. (2016, October). Lung Transplant Recipients' Recall of Dietary Discharge Instructions. Poster presentation at the International Transplant Nurses Society in Pittsburgh, Pennsylvania, USA.
21. Ledyard, J., Forman, D., Goodwin, K., Cipkala-Gaffin, J., Jordan, M., Palombo, C., Hagmann, J., Wallace, A., Collins, V., Manko, T., & **Alrawashdeh, M.** (2016, September). The Use of Smart Phone Technology to Cost-Effectively Enhance Patient Outcomes in Phase 2 Cardiac Rehab. Poster presentation at the 31<sup>st</sup> American Association of Cardiovascular and Pulmonary Rehabilitation Annual Meeting in New Orleans, Louisiana, USA.
22. Baird, E., Cipkala-Gaffin, J. A., & **Alrawashdeh, M.** (2016, April). Impact of Oncology Communication Skills Training on the Bedside Oncology Nurse. Poster presentation at the 41<sup>st</sup> Annual Congress of the Oncology Nursing Society in San Antonio, Texas, USA.
23. Al-Zaiti, S. S., **Alrawashdeh, M.,** Rivero, D., Martin-Gill, C., & Callaway, C (2016, April). Widened QRS-T Angle on the Presenting 12-lead ECG Indicates non-ST Elevation Myocardial Infarction in Patients with Chest Pain. Poster presentation at the International Society for Computerized Electrocardiology 41<sup>st</sup> Annual Conference in Tucson, Arizona, USA.
24. Kelly, S., Mormer, E., **Alrawashdeh, M.,** Cipkala-Gaffin, J., Bubb, K., & Recznik, B. (2016, April). Who Needs Interventional Audiology Among Older Hospitalized Patients? A Quality

- Improvement Project. Poster presentation at the American Academy of Audiology Annual Conference in Phoenix, Arizona, USA.
25. **\*\*Alrawashdeh, M.** (2016, March). Medical Knowledge Sharing: from Oral Heritage to Mobile Health. Podium presentation at the annual conference of the Southern Association for the History of Medicine and Science in Las Vegas, Nevada, USA.
  26. **\*\*Alrawashdeh, M.,** Al-Zaiti, S., Sejdic, E., Martin-Gill, C., & Callaway, C. (2016, January). Repolarization Dispersion on the Prehospital 12-Lead ECG Predicts Ischemic Myocardial Injury in Chest Pain Patients. Podium presentation at the American Heart Association's 24th annual Fellows Research Day in Pittsburgh, Pennsylvania, USA.
  27. Archer, M. F., Cipkala-Gaffin, J. A., & **Alrawashdeh, M. O.** (2015, October). Screening for Preoperative Risk Factors for Postoperative Nausea and Vomiting. Poster presentation at the Biology and Control of Nausea and Vomiting conference in Pittsburgh, Pennsylvania, USA.
  28. Bubb, K., Cipkala-Gaffin, J., Mormer, E., Recznik, B., & **Alrawashdeh, M.** (2015, September). Communication, Hearing, and Audiometry Tests (CHAT) in Older Hospitalized Inpatients: A Quality Improvement Project. Poster presentation at the National Center for Rehabilitative Auditory Research (NCRAR) in Portland, Oregon, USA.
  29. Kofford, K., Cipkala-Gaffin, J., & **Alrawashdeh, M.** (2015, May). Innovative Nursing Protocol for Management of Oncology Patients with Neutropenic Fever in the Emergency Department. Poster presentation at the University of Pittsburgh Medical Center Nurses Week Conference in Pittsburgh, Pennsylvania, USA.
  30. Goodwin, K., Malecky, A., Cipkala-Gaffin, J., Ledyard, J., & **Alrawashdeh, M.** (2015, April). Screening for Depression and Quality of Life in Cardiac Rehabilitation. Poster presentation at the Annual Symposium of the Preventive Cardiovascular Nurses Association in Anaheim, California, USA.
  31. **\*\*Fatigati, A., Alrawashdeh, M.,** Zaldonis, J., Aubrecht, J., Choi, J., & DeVito Dabbs, A. (2015, April). Predictors and Outcomes of Sleep Quality within the First Year after Lung Transplantation. Poster presentation at the Annual Scientific Meeting of the 35<sup>th</sup> International Society for Heart and Lung Transplantation in Nice, France.
  32. **\*\*Alrawashdeh, M.,** DeVito Dabbs, A., Dew, M. A., Song, M., Zomak, R., Pilewski, J., & Bermudez, C. (2015, April). Predictors of Discharge Destination After Lung Transplantation. Podium presentation at the 35<sup>th</sup> Annual Scientific Meeting of the International Society for Heart and Lung Transplantation in Nice, France.
  33. Hu, L., DeVito Dabbs, A., Sereika, S. M., Lingler, J. H., Zheng, Y., Dew, M. A., **Alrawashdeh, M.,** & Bermudez, C. (2015, April). SES, Clinical, and Psychological Factors are Associated with Trajectories of Self-Care Agency Over the First Year After Lung Transplant. Poster presentation at the Annual Scientific Meeting of the 35<sup>th</sup> International Society for Heart and Lung Transplantation in Nice, France.

34. De Vito Dabbs, A., Myers, B., Song, M., Li, R., Aubrecht, J., Zomak, R., Dew, M., & **Alrawashdeh, M.** (2014, September). Pocket Path®: A Smartphone Intervention to Promote Self-Management Behaviors After Lung Transplantation. Presented at the 23rd Annual International Transplant Nurses Society (ITNS) Symposium in Houston, TX, USA.
35. **\*\*Alrawashdeh, M., & DeVito Dabbs, A.** (2014, April). Predictors of Anxiety and Depression during the First 2 Months after Lung Transplantation. Poster presentation at the Annual Scientific Meeting of the International Society for Heart and Lung Transplantation in San Diego, California, USA.
36. Zaldonis, J., **Alrawashdeh, M.**, Atman, K., Fatigati, A., & DeVito Dabbs, A. (2013, October). Predictors and Influence of Recipients' Goal Orientation on Self-Management Behaviors and Health Outcomes after Lung Transplantation. Panel podium presentation at the 25th Greater Pittsburgh Nursing Research Conference (GPANRC) in Pittsburgh, Pennsylvania, USA.
37. **\*\*Alrawashdeh, M.**, Li, R., Zomak, R., & DeVito Dabbs, A. (2013). Pattern and Predictors of Re-hospitalization During the First Year after Transplantation. Panel podium presentation at the 25th Greater Pittsburgh Nursing Research Conference (GPANRC) in Pittsburgh, Pennsylvania, USA.
38. Zomak, R., Whiteman, S., Keddie, L., Meyer, K., Feinberg, A., Speicher, F., Bermudez, C., Pilewski, J., **Alrawashdeh, M.**, & DeVito Dabbs, A. (2013, April). Pattern and Predictors of Hospital Readmission after Lung Transplantation. Podium presentation at the Annual Scientific Meeting of the International Society for Heart and Lung Transplantation, Montreal, Canada.

### **Editorials and Media Reports About my Research**

1. Kimball, S. L., & Levy, M. M. (2021). Sepsis and the Opioid Crisis: Integrating Treatment for Two Public Health Emergencies. *Crit Care Med*, 49(12), 2151-2153. doi:10.1097/CCM.00000000000005152
2. <https://www.mdedge.com/chestphysician/article/217699/critical-care/opioid-use-disorder-sepsis-hospitalizations>
3. [https://www.sccm.org/getattachment/About-SCCM/Media-Relations/Press-Release-Abstract-sepsis-in-patients-with-opioid-use.pdf?lang=en-US&fbclid=IwAR1bNl-QBoIDQX7aiFY08-ELDebmMoK5sly0BzBVI\\_6yZpAbCxIYjGvEQZk](https://www.sccm.org/getattachment/About-SCCM/Media-Relations/Press-Release-Abstract-sepsis-in-patients-with-opioid-use.pdf?lang=en-US&fbclid=IwAR1bNl-QBoIDQX7aiFY08-ELDebmMoK5sly0BzBVI_6yZpAbCxIYjGvEQZk)
4. [https://www.healio.com/news/primary-care/20200218/opioid-use-disorder-increases-risk-for-death-from-sepsis?fbclid=IwAR1i\\_s2el52sHmYcjnO9odcDVh7Cgy345Rq1B6n0PwJ\\_Ba1GI6N0f7ews2E](https://www.healio.com/news/primary-care/20200218/opioid-use-disorder-increases-risk-for-death-from-sepsis?fbclid=IwAR1i_s2el52sHmYcjnO9odcDVh7Cgy345Rq1B6n0PwJ_Ba1GI6N0f7ews2E)
5. <https://www.the-hospitalist.org/hospitalist/article/217699/critical-care/opioid-use-disorder-sepsis-hospitalizations>
6. <https://www.contagionlive.com/view/nationwide-study-sepsis-present-in-1-in-3-patients-with-oud-who-died-in-the-hospital>
7. YouTube interview with CHEST Journal: <https://youtu.be/WK8MScMZako>

### Research Mentoring

#### **Advisor**

*Student* Shaima'a Shatnawi  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology  
*Years* 2022-present  
*Project Title* "Intention to Use Mobile Health Technologies among Health Care Providers in Dialysis Units in Jordan."

#### **External Examiner**

*Student* Banan Al Najadat  
*Program* Graduate Master's Thesis, Mutah University  
*Years* 2022  
*Project Title* "Health Informatics Competencies Among Senior Nursing Students at Public Jordanian Universities."

#### **Internal Examiner**

*Student* Sajeda Darwish  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology  
*Years* 2022  
*Project Title* "Depression and Depression Literacy among Jordanian School Students."

#### **Advisor**

*Student* Yasmin Al-As'ad  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology  
*Years* 2021-present  
*Project Title* "Perceptions of Parents about Covid 19 Vaccine for Children under 18 Years in North Jordan."

#### **Internal Examiner**

*Student* Hadeel Al-Afeef  
*Program* Graduate Master's Thesis, an University of Science and Technology  
*Years* 2021  
*Project Title* "Inter-professional Education in Jordan: Attitudes and Perceptions of Faculty Members."

#### **Co-Advisor**

*Student* Noor Kullab  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology (Faculty of Dentistry)  
*Years* 2020-2022  
*Project Title* "Development and Validation of a Novel Incisal Translucency Guide."

**Internal Examiner**

*Student* Alaa Malkawi  
*Program* Graduate Master's Thesis, an University of Science and Technology  
*Years* 2021  
*Project Title* "The Impact of Perceived Fairness of Performance Appraisal and Organizational Commitment on Job Performance among Registered Clinical Nurses in Jordan."

**Co-Advisor**

*Student* Bader Ikbariyeh  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology (Faculty of Dentistry)  
*Years* 2019 - 2020  
*Project Title* "Clinical and biological indicators of periodontal disease in obese and non-obese adults with and without bronchial asthma."

**Advisor**

*Student* Majeda Al-Zoubi  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology  
*Years* 2019 - 2020  
*Project Title* "The Relationship between Perceived Stress and Trait Mindfulness among Jordanian Nurses in Leading Roles."

**Co-Advisor**

*Student* Eman Al-Satari  
*Program* Graduate Master's Thesis, Jordan University of Science and Technology  
*Years* 2018  
*Project Title* "The Effectiveness of Argan Spinosa Oil in The Treatment of Diaper Dermatitis in Infants and Toddlers: A Quasi- Experimental Trail."

**Mentor**

*Student* Maddison Plasket  
*Program* Undergraduate Research Mentorship Program, University of Pittsburgh  
*Years* 2016 - present  
*Project Title* "Clinicians' Acceptance of Interactive Health Technologies to Support Patients' Self-Management."

**Co-Mentor**

*Student* Angela Fatigati  
*Program* Undergraduate Research Mentorship Program, University of Pittsburgh  
*Years* 2013 - 2015  
*Project Title* "Sleep Quality within the First Year After Lung Transplantation."

**Co-Mentor**

*Student* Jenna Zaldonis  
*Program* Undergraduate Research Mentorship Program, University of Pittsburgh  
*Years* 2013 - 2015  
*Project Title* “Goal orientation, self-management, and health-related quality of life after lung transplant.”

**Other Scholarly Activities**

**Manuscript Reviewer**

2020 - present Journal of Critical Care Medicine  
 2017 - present American Journal of Transplantation  
 2016 - present Journal of Applied Clinical Informatics  
 2016 - present Journal of Heart and Lung Transplantation

**Computational and Research Skills**

- Proficient in quantitative research methods including descriptive and inferential statistics
- Experienced user of citation packages (Endnote, Mendeley)
- Proficient in preparing grant applications
- Proficient in research project management
- Experienced in research methodology and design
- Experienced user of Microsoft Office (Word, Excel, PowerPoint, Access)

***Statistical Software Packages***

<b>Software</b>	<b>Level of Proficiency</b>
R	Proficient
SAS	Proficient
Stata	Proficient
SPSS	Proficient
SmartPLS	Proficient
AMOS	Proficient
SQL	Knowledgeable
Python	Knowledgeable
Mplus	Knowledgeable



**Membership in Professional and Scientific Societies**

2019 - 2021	Society of Critical Care Medicine (SCCM)
2016 - 2017	International Transplant Nurses Society (ITNS)
2016 - 2017	Eastern Nursing Research Society (ENRS)
2014 - 2018	International Association of Heart and Lung Transplantation (ISHLT)

**Honors and Awards**

2020	Star Research Achievement Award, Society of Critical Care Medicine
2019	Pyle Fellowship Award, Harvard Medical School
2016	Nursing, Health Sciences and Allied Health Research Grant Award, ISHLT
2016	Student Honoree, University of Pittsburgh
2016	Pitt-O’Neil Fellow, The GetWellNetwork, Bethesda, MD
2015	Margaret Wilkes Scholarship Award, University of Pittsburgh
2015	Pre-Doctoral Fellow, NIH T32 2NR008857 Technology, University of Pittsburgh
2015	Certificate of Distinction - Best Poster Presentation , University of Pittsburgh School of Nursing
2015	Innovation of Care Award, The Preventive Cardiovascular Nurses Association
2015	Travel Grant, The Graduate and Professional Student Government, University of Pittsburgh
2015	Travel Grant, Graduate Nursing Student Organization, University of Pittsburgh
2010 - 2015	Graduate Studies Scholarship, Jordan University of Science and Technology

**Teaching**

**Classroom Teaching**

	<b>Course Title</b>	<b>Level</b>	<b>Times Taught</b>	<b>University</b>
2019-2022	NUR793: Research Seminar	MSN	2	Jordan University of Science and Technology
2019-2022	NUR402: Nursing and Health Research	BS	2	Jordan University of Science and Technology

2019-2021	NUR302: Health Informatics	BS	7	Jordan University of Science and Technology
2018-2022	NUR782: Analytical Epidemiology and Biostatistics	MSN	2	Jordan University of Science and Technology
2018-2021	NUR316: Biostatistics	BS	5	Jordan University of Science and Technology
2022	NUR 102: Fundamentals of Nursing	BS	1	Jordan University of Science and Technology
2018-2022	NUR100: Health Promotion	BS	2	Jordan University of Science and Technology

**Clinical Teaching**

	<b>Course Title</b>	<b>Level</b>	<b>Times Taught</b>	<b>University</b>
2021	Clinical Training (course evaluator)	BS	3	Jordan University of Science and Technology
2008 - 2010	Nursing Health Assessment (Lab)	BSN	4	Jordan University of Science and Technology
2008 - 2010	Nursing Medical Surgical (clinical instructor)	BSN	4	Jordan University of Science and Technology

**Guest Lecturer**

	<b>Course Number / Title</b>	<b>Level</b>	<b>No. of Attendees</b>	<b>Topic of Lecture(s)</b>	<b>Place of Lecture(s)</b>
2021	Research seminar	MSN	12	Citation Managers in Research	JUST University

2019	TIDE research analysts	MPH	~36	Graphics using R	Harvard Medical School, DPM
2019	Infectious disease roundtable meeting	MPH	~20	Sepsis among Healthy Patients	Harvard Medical School, DPM
2016-2017	NUR501: Scientific Underpinnings for Practice	MSN	~ 15	Introduction to statistics for evidence based practice	Chatham University
2015 - 2016	NUR 0088: Introduction to Basic Statistics for Evidence-based Practice	BSN	~ 60	Descriptive statistics, reliability and validity, t-test, ANOVA	University of Pittsburgh
2013	NUR 3049: Research Seminar	PhD	~ 6	My experience during the first year of PhD studies	University of Pittsburgh
2011	NURS 20020: Foundations of Assessment & Communications in Nursing	BSN	~ 50	Cardiopulmonary, GI, and Nervous Systems	Kent State University

**Service**

2021	Irbid, Jordan	Volunteer & coordinator, free community health fair
2015	The Universal Academy of Pittsburgh, Swissvale, PA	Volunteer & coordinator, free community health fair
2012 - 2013	School of Nursing University of Pittsburgh	Technology representative, the Doctorate of Nursing Student Organization (DNSO)
2011 - 2012	School of Nursing Kent State University	Students' representative, the Graduate Curriculum Committee (GCC)
2009-2010	School of Nursing JUST University	Instructor, free Basic Life Support (BLS) course
2006 – 2007	JUST University	Head of the University Student's Science Club