

Mark B. Lockwood, PhD, MSN, RN  
Curriculum Vitae  
Department of Biobehavioral Health Science  
University of Illinois College of Nursing (MC 802)  
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### **EDUCATION:**

- 2016 Oregon Health and Science University  
(PhD-Nursing Science)  
Dissertation title: Mitigating Barriers and Inequities to the Pre-kidney  
Transplant Evaluation;  
Dissertation chair: Christopher Lee, PhD, FAHA, FAAN, FHFS
- 2010 Loyola University at New Orleans  
(MSN-Nursing, Healthcare Systems Management)  
Thesis: Evaluation of the Medical Home Program at the Urban Health  
Initiative at the University of Chicago.  
Thesis Advisors: Michael Landry, PhD, RN; Kimberly Hobson, MBA.
- 1995/1997 Jewish Hospital College of Nursing and Allied Health  
(ADN/BSN-Nursing)

### **POST DOCTORAL 'OMICS' TRAINING:**

- 2018 Bioinformatics workshop. University of Illinois at Chicago, 2018
- 2017 Precision Health: From Omics to Data Science Boot Camp. National  
Institute of Nursing Research. Bethesda, MD, August 5-11, 2017
- 2017 Summer Genetics Institute. National Institute of Nursing Research.  
Bethesda, MD, June 5-30, 2017
- 2017 Getting Involved with Microbiome Research for Clinicians: From  
Sequencing to Grant Writing. The Microbiome Center at the University of  
Chicago. Woods Hole, MA, May 23-26, 2017 (Led by Jack Gilbert, PhD)

### **EMPLOYMENT:**

- 2023- Associate Professor (with tenure), Department of Biobehavioral Nursing  
Science, University of Illinois, Chicago, IL.
- 2016-2023 Assistant Professor, Tenure Track, Department of Biobehavioral Nursing  
Science, University of Illinois, Chicago, IL.
- 2006-2016 Clinical Research Nurse, Department of Surgery (Transplant), University  
of Chicago Medical Center, Chicago, IL.
- 2004-2006 Clinical Research Nurse, Department of Surgery (Transplant),  
Northwestern Memorial Hospital, Chicago, IL.
- 2000-2004 Clinical Research Nurse, Center for Clinical Studies, Washington  
University at St. Louis, St. Louis, MO.

- 1997-2000 Staff Nurse /Charge Nurse, Thoracic Surgery ICU, Barnes-Jewish Hospital, St. Louis, MO.
- 1996-1997 Staff Nurse/Charge Nurse, Telemetry, Jefferson Memorial Hospital, Festus, MO.

**HONORS AND AWARDS:**

- 2021 NIH/NINR Clinical Loan Repayment Award (L30NR020114)
- 2020 UIC Nursing Graduate Student Nursing Organization and Student Nurses' Association Staff and Faculty Appreciation Award
- 2019 Best Abstract/Podium Presentation, International Transplant Nurses Society Symposium, November 18, 2019, Orlando, FL
- 2019 UIC CON Faculty Excellence Award, nominee (nominated by students)
- 2018 Best in Congress Posters, Session B, American Transplant Congress, June 3, 2018, Seattle, WA
- 2018 Janet A. Deatrck & UIC College of Nursing Junior Faculty Research Award
- 2018 Distinguished Service Award: International Transplant Nurses Society, Board of Directors, Director at Large
- 2017 Fellow, Summer Genetics Institute, National Institute of Nursing Research
- 2016 Distinguished Service Award: University of Chicago Evidence-Based Practice and Research Council, Council Co-chair
- 2015 Semifinalist: UChicago App Challenge
- 2012 Dean's Scholarship: Oregon Health and Science University
- 2011 Member, The Honors Society of Nursing, Sigma Theta Tau International
- 1997 President's Service Excellence Award, Barnes-Jewish Hospital

**RESEARCH:**

**Extramural**

Funded:

- 2023-2028 **Lockwood, M.B.** (PI) R01DK135574 The Gut Microbiome and Serum Metabolites as a Biological Mechanism Underlying Pain in Kidney Transplantation (Biome-KT). National Institute of Diabetes and Digestive and Kidney Diseases, (NIDDK), (\$3,652,024).
- 2022-2024 Mirzaei, S. (PI), DeVon, H. & Lusic, A.J. (Co-sponsors), **Lockwood, M.B.** & Cantor, (Mentors) F32NR020151-01A1 Associations between Gut Microbiota, Plasma Metabolites, and Metabolic Syndrome Traits. National Institute of Nursing Research, (NINR), (\$152,088).

- 2020-2022 **Lockwood, M.B.** (supplement PI), Fischer, M.J., Doorenbos, A. (MPIs). U01DK123787-01S1 HEAL supplement, University of Illinois at Chicago Hemodialysis Opioid Prescription Effort (HOPE) Clinical Center, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), (\$147,748)
- 2019-2022 **Lockwood, M.B.** (PI), Green, S. J. (Mentor) K23NR018482 Changes in Oral and Gut Microbiota and Incidence and Severity of Patient-Reported Symptoms in Pre- and Post-Kidney Transplant Patients, National Institute of Nursing Research (NINR), (\$468,735).
- 2015-2016 **Lockwood, M.B.** (PI), Becker, Y.T. (PI). Determining Predictors of In-home Internet Access and the Use of Personal Health Record (PHR) Systems in an Urban End Stage Kidney Disease (ESKD)/Post-kidney Transplant Population in the United States. 2015 International Transplant Nurses Society Research Grant Award (\$2,500).
- 2013-2014 **Lockwood, M.B.** (PI), Becker, Y.T. (PI). A Prospective Study to Assess Psychosocial Factors that Influence Completion or Non-completion of the Pre-Renal Transplant Evaluation at an Urban Transplant Center. 2013 International Transplant Nurses Society Research Grant Award (\$2,500).
- 2013 **Lockwood, M.B.** (PI), Chon, W.J. (PI). Information and Communication Technology (ICT) Use in Pre and Post Renal Transplant Patients at an Urban Transplant Center. Edith Anderson Leadership Education Grant (\$750).

### **Intramural**

#### Funded:

- 2019 **Lockwood, M.B.** (PI), Bronas, Dunn-Lopez, K, & U.G., Park, C. Development of a Stand-Alone Prototype Application for Clinical Practice: The Symptom Index Risk Stratification Application (SIRSA), University of Illinois at Chicago College of Nursing, Department of Biobehavioral Health Science, Innovations Award (\$1,000)
- 2018 **Lockwood, M.B.** (PI). Changes in Oral and Gut Microbiota and Incidence and Severity of Patient-Reported Symptoms in Pre- and Post-Kidney Transplant Patients. UIC CON Internal Research Support Program award, (\$20,000).
- 2018 **Lockwood, M.B.** (PI), DeVon, H.A. (Co-I). Characterizing Symptoms Cluster across the Spectrum of Chronic Kidney Disease Using Data from the Chronic Renal Insufficiency Cohort Study (CRIC). Janet Detrick Junior Faculty Award, (\$2,500).

2012            **Lockwood, M.B.** (Co-I), Chon, W.J. (PI). Information and Communication Technology (ICT) Use in Pre and Post Renal Transplant Patients at an Urban Transplant Center. University of Chicago Department of Medicine (Transplant Nephrology), (\$1,000).

**PUBLICATIONS:** (All peer reviewed manuscripts. \*Indicates data-based, Senior/corresponding author):

**Published/In press/Under review**

- \*1. Brennan, D. C., Agha, I., Bohl, D. L., Schnitzler, M. A., Hardinger, K. L., **Lockwood, M.**, Torrence, S., Schuessler, R., Roby, T., Gaudreault-Keener, M., & Storch, G. A. (2005, Mar). Incidence of BK with tacrolimus versus cyclosporine and impact of preemptive immunosuppression reduction. *Am J Transplant*, 5(3), 582-594. <https://doi.org/10.1111/j.1600-6143.2005.00742.x>
- \*2. Hardinger, K. L., Bohl, D. L., Schnitzler, M. A., **Lockwood, M.**, Storch, G. A., & Brennan, D. C. (2005, Jul 15). A randomized, prospective, pharmacoeconomic trial of tacrolimus versus cyclosporine in combination with thymoglobulin in renal transplant recipients. *Transplantation*, 80(1), 41-46. <https://doi.org/10.1097/01.tp.0000162980.68628.5a>
- \*3. Khoury, J. A., Storch, G. A., Bohl, D. L., Schuessler, R. M., Torrence, S. M., **Lockwood, M.**, Gaudreault-Keener, M., Koch, M. J., Miller, B. W., Hardinger, K. L., Schnitzler, M. A., & Brennan, D. C. (2006, Sep). Prophylactic versus preemptive oral valganciclovir for the management of cytomegalovirus infection in adult renal transplant recipients. *Am J Transplant*, 6(9), 2134-2143. <https://doi.org/10.1111/j.1600-6143.2006.01413.x>
- \*4. **Lockwood, M. B.**, Saunders, M. R., Lee, C. S., Becker, Y. T., Josephson, M. A., & Chon, W. J. (2013, Dec). Kidney transplant and the digital divide: is information and communication technology a barrier or a bridge to transplant for African Americans? *Prog Transplant*, 23(4), 302-309. <https://doi.org/10.7182/pit2013869>
- \*5. **Lockwood, M.**, Saunders, M., Josephson, M. A., Becker, Y. T., & Lee, C. (2015, Mar). Determinants of frequent Internet use in an urban kidney transplant population in the United States: characterizing the digital divide. *Prog Transplant*, 25(1), 9-17. <https://doi.org/10.7182/pit2015957>
- \*6. **Lockwood, M. B.**, Bidwell, J. T., Werner, D. A., & Lee, C. S. (2016, May-Jun). Non-Biological Barriers to Referral and the Pre-Kidney Transplant Evaluation Among African Americans in the United States: A Systematic Review. *Nephrol Nurs J*, 43(3), 225-238; quiz 239.

- \*7. **Lockwood, M. B.**, Saunders, M. R., Nass, R., McGivern, C. L., Cunningham, P. N., Chon, W. J., Josephson, M. A., Becker, Y. T., & Lee, C. S. (2017, Jun). Patient-Reported Barriers to the Prekidney Transplant Evaluation in an At-Risk Population in the United States. *Prog Transplant*, 27(2), 131-138. <https://doi.org/10.1177/1526924817699957> (IF: 0.94).
- \*8. **Lockwood, M. B.**, Dunn-Lopez, K., Burke, L., Becker, Y. T., & Saunders, M. (2017, Nov). Frequency of In-Home Internet Use Among Prekidney and Postkidney Transplant Patients-Facilitators and Barriers to Use and Trends Over Time. *Transplant Direct*, 3(11), e216. <https://doi.org/10.1097/txd.0000000000000735> (IF: 1.88).
- \*9. **Lockwood, M. B.**, Dunn-Lopez, K., Pauls, H., Burke, L., Shah, S. D., & Saunders, M. A. (2018, Oct). If you build it, they may not come: modifiable barriers to patient portal use among pre- and post-kidney transplant patients. *JAMIA Open*, 1(2), 255-264. <https://doi.org/10.1093/jamiaopen/ooy024> (IF: 4.29).
10. Maki, K. A., Diallo, A. F., **Lockwood, M. B.**, Franks, A. T., Green, S. J., & Joseph, P. V. (2019, Mar). Considerations When Designing a Microbiome Study: Implications for Nursing Science. *Biol Res Nurs*, 21(2), 125-141. <https://doi.org/10.1177/1099800418811639> (IF: 2.52).
11. **Lockwood, M. B.**, Chung, S., Puzantian, H., Bronas, U. G., Ryan, C. J., Park, C., & DeVon, H. A. (2019, Jul). Symptom Cluster Science in Chronic Kidney Disease: A Literature Review. *West J Nurs Res*, 41(7), 1056-1091. <https://doi.org/10.1177/0193945918808766> (IF: 1.9).
- \*12. **Lockwood, M. B.**, Lash, J. P., Pauls, H., Chung, S. Y., Samra, M., Ryan, C., Park, C., DeVon, H., & Bronas, U. G. (2020, Mar/Apr). Physical Symptom Cluster Subgroups in Chronic Kidney Disease. *Nurs Res*, 69(2), 100-108. <https://doi.org/10.1097/nnr.0000000000000408> (IF: 2.38).
13. **Lockwood, M. B.**, & Green, S. J. (2020). Clinical care is evolving: The microbiome for advanced practice nurses. *Journal of the American Association of Nurse Practitioners*, 32(4), 290-292. <https://doi.org/10.1097/JXX.0000000000000379> (IF: 1.37).
14. Diallo, A. F., **Lockwood, M. B.**, Maki, K. A., Franks, A. T., Roy, A., Jaime-Lara, R., Joseph, P. V., Henderson, W. A., Chung, S. Y., McGrath, J., Green, S. J., & Fink, A. M. (2020). Metabolic Profiling of Blood and Urine for Exploring the Functional Role of the Microbiota in Human Health. *Biological Research For Nursing*, 1099800420941080. <https://doi.org/10.1177/1099800420941080> (IF: 2.52).

15. Li, H., Liu, T., Heinsberg, L. W., **Lockwood, M. B.**, Wainwright, D. A., Jang, M. K., & Doorenbos, A. Z. (2020, Oct). Systematic Review of the Kynurenine Pathway and Psychoneurological Symptoms Among Adult Cancer Survivors. *Biol Res Nurs*, 22(4), 472-484. <https://doi.org/10.1177/1099800420938141> (IF: 2.5).
- \*16. Ignatiev, E., Samardzija, M. K., Paul, S., Vuckovic, K. M., & **Lockwood, M. B.** (2021, Jun 25). Standardized Patient Education for Decompensated Cirrhotic Patients and Impact on Clinician Satisfaction. *Gastroenterol Nurs*. <https://doi.org/10.1097/sga.0000000000000543> (student mentored manuscript-IF: 0.978).
17. Mathew, A., Tirkey, A. J., Li, H., Steffen, A., **Lockwood, M. B.**, Patil, C. L., & Doorenbos, A. Z. (2021, 2021/10/01/). Symptom Clusters in Head and Neck Cancer: A Systematic Review and Conceptual Model. *Seminars in Oncology Nursing*, 37(5), 151215. <https://doi.org/https://doi.org/10.1016/j.soncn.2021.151215> (student mentored manuscript)-IF: 2.315).
18. **Lockwood, M. B.**, Steel, J. L., Doorenbos, A. Z., Contreras, B. N., & Fischer, M. J. (2021, Nov). Emerging Patient-Centered Concepts in Pain Among Adults With Chronic Kidney Disease, Maintenance Dialysis, and Kidney Transplant. *Semin Nephrol*, 41(6), 550-562. <https://doi.org/10.1016/j.semnephrol.2021.10.007> (IF: 5.29).
19. Tobin, D. G., **Lockwood, M. B.**, Kimmel, P. L., Dember, L. M., Eneanya, N. D., Jhamb, M., Nolin, T. D., Becker, W. C., & Fischer, M. J. (2022, Feb). Opioids for chronic pain management in patients with dialysis-dependent kidney failure. *Nat Rev Nephrol*, 18(2), 113-128. <https://doi.org/10.1038/s41581-021-00484-6> (IF: 28.31).
20. Ahdoot, R. S., Kalantar-Zadeh, K., Burton, J. O., & **Lockwood, M. B.** (2022, Jan 1). Novel approach to unpleasant symptom clusters surrounding pruritus in patients with chronic kidney disease and on dialysis therapy. *Curr Opin Nephrol Hypertens*, 31(1), 63-71. <https://doi.org/10.1097/mnh.0000000000000752> (IF :2.94).
21. Kalantar-Zadeh, K., **Lockwood, M. B.**, Rhee, C. M., Tantisattamo, E., Andreoli, S., Balducci, A., Laffin, P., Harris, T., Knight, R., Kumaraswami, L., Liakopoulos, V., Lui, S.-F., Kumar, S., Ng, M., Saadi, G., Ulasi, I., Tong, A., & Li, P. K.-T. (2022, 2022/01/03). Patient-centred approaches for the management of unpleasant symptoms in kidney disease. *Nature Reviews Nephrology*. <https://doi.org/10.1038/s41581-021-00518-z> (IF: 28.31).

- 22.. Rhee, C. M., Edwards, D., Ahdoot, R. S., Burton, J. O., Conway, P., Fishbane, S., Gallego, D., Gallieni, M., Gedney, N., Hayashida, G., Ingelfinger, J., Kataoka-Yahiro, M., Knight, R., Kopple, J. D., Kumarsawami, L., **Lockwood, M. B.**, Murea, M., Page, V., Sanchez, J. E., Szepietowski, J. C., Lui, S.-F., & Kalantar-Zadeh, K. (2022, 2022/06/30/). Living Well with Kidney Disease and Effective Symptom Management: Consensus Conference Proceedings. *Kidney International Reports*. <https://doi.org/https://doi.org/10.1016/j.ekir.2022.06.015>. (IF: 4.16).
23. **Lockwood, M. B.**, Fischer, M. J., Silva, K., Contreras, B. N., Zamora, G., Goldstein, A., Meinel, M., Holden, C., Lash, J., Steffens, A., & Doorenbos, A. (2022, 2022/10/01/). Acceptability and feasibility of fecal microBIOME and serum metabolite sample collection in people with end-stage kidney disease and pain being treated with HemoDialysis: A pilot study (BIOME-HDp). *Contemporary Clinical Trials Communications*, 29, 100995. <https://doi.org/https://doi.org/10.1016/j.conctc.2022.100995>
- \*24. Fritschi, C., Vuckovic, K. M., Bronas, U. G., Quinn, L., Kapella, M. C., **Lockwood, M.**, Calik, M., Burke, L. A., Collins, E. G., & Fink, A. M. (2022). Predictors of 6-Minute Walk Distance Among Aging Adults With Chronic Cardiopulmonary, Metabolic, and Renal Diseases. *Journal of Clinical Exercise Physiology*, 11(4), 140-145. <https://doi.org/10.31189/2165-6193-11.4.140>
- \*25. **Lockwood, M. B.**, Chlipala, G. E., Maeinschein-Cline, M., DeVon, H. A., Lichvar, A. B., Samra, M. K., Park, C. G., Campara, M., Doorenbos, A. Z., Tussing-Humphreys, L. M., Spaggiari, M., Bronas, U. G., Steel, J. L., & Green, S. S. (2023). Pain Interference in End Stage Kidney Disease is Associated with Changes in Gut Microbiome Features Before and After Kidney Transplantation. *Pain Management Nursing*, 24(1), 68-77. <https://doi.org/10.1016/j.pmn.2022.08.013>, -(IF: 2.35).
- \*26. Li, H., Lockwood, M. B., Schlaeger, J. M., Liu, T., Danciu, O. C., & Doorenbos, A. Z. (2023, Feb). Tryptophan and Kynurenine Pathway Metabolites and Psychoneurological Symptoms Among Breast Cancer Survivors. *Pain Manag Nurs*, 24(1), 52-59. <https://doi.org/10.1016/j.pmn.2022.09.002>
27. Sung, C., Hershberger, P. E., & **Lockwood, M. B.** (2023, Apr). Sickness Symptoms in Kidney Transplant Recipients: A Scoping Review. *West J Nurs Res*, 45(4), 344-362. <https://doi.org/10.1177/01939459221128125>
28. Chong, H. J., Jang, M. K., **Lockwood, M. B.**, & Park, C. (2023, May). Health Belief Model Constructs Affect Influenza Vaccine Uptake in Kidney Transplant Recipients. *West J Nurs Res*, 45(5), 395-401. <https://doi.org/10.1177/01939459221136354>

- \*29. Mathew, A., **Lockwood, M.B.**, Steffen, A., Tirkey, A.J., Pavamani, S.P., Patil, C. L., Doorenbos, A.Z. (2023). Distinct Dysphagia Profiles in Patients with Oral Cancer after Surgery. (submitted, Jun 23, 2022, *Oncology Nursing Forum*, student mentored manuscript).
- \*30. Mathew, A., Tirkey, A. J., Pavamani, S. P., Steffen, A., **Lockwood, M. B.**, Patil, C. L., & Doorenbos, A. Z. (2023, 2023/02/01/). On a pathway to resigned acceptance: Patients' experiences of living with symptom clusters in oral cancer. *European Journal of Oncology Nursing*, 62, 102263. <https://doi.org/https://doi.org/10.1016/j.ejon.2022.102263>
- \*31. Mathew, A., **Lockwood, M. B.**, Steffen, A., Tirkey, A. J., Pavamani, S. P., Patil, C. L., & Doorenbos, A. Z. (2023, Apr 4). Symptom Cluster Experiences of Patients Operated for Oral Cancer: A Mixed Methods Study. *Semin Oncol Nurs*, 151407. <https://doi.org/10.1016/j.soncn.2023.151407>
32. Almosa, A. S., **Lockwood, M. B.**, & Green, S. J. (2023, 2023/05/19). Effects of Spaceflight on the Human Gastrointestinal Tract Microbiome. *Journal of the Indian Institute of Science*. <https://doi.org/10.1007/s41745-023-00384-7>

#### **Manuscripts in progress:**

- \*1. Sung, C., **Lockwood, M.B.**, and Fink, A. Using the Middle-Range Theory of Self-Care of Chronic Illness to Improve Pandemic-Era Health. (submitted, Mar 24, 2022, *Advances in Nursing Science* student mentored manuscript-under review,).
2. Jeamjitvibool, T., **Lockwood, M.B.**, & Fink, A.M. (2023). A conceptual analysis of sleep disturbances in older adults receiving dialysis. (submitted). *Advances in Nursing Science*.
3. Fink, A.M., Martha, S.R., Calik, M.W., **Lockwood, M.B.**, Quinn, L., Vanderzwan, K.J., Fritschi, C., Schwind, J., Schlaeger, J. M., Vuckovic, K.M. (2022). Autonomic nervous system—linking history, neuroanatomy, pathophysiology, and pharmacology with nursing education. *Journal of Nursing Education*, (submitted Sept ).

#### **Published Abstracts:**

1. Tambur AR, Herrera ND, Leventhal J, **Lockwood M**, Abecassis M. Mycophenolate Mofetil as a Tool to Alter Dendritic Cell Maturation and Alloantigen Presentation. Transplantation. 2006;82(1).
2. Brennan DC, Hardinger KL, Bohl DL, **Lockwood MB**, Torrence S, Schuessler R, Gaudreault M, Roby T, Koch MJ, Miller BW, Schnitzler MA, Storch GA: Preemptive vs prophylactic valganciclovir for CMV in renal transplantation: Early results from a randomized, prospective trial. American Society of Nephrology 2004, St. Louis, MO, *J Am Soc Nephrol* 15, Abstract SA-FC009 pp 23A, 2004



3. Garfinkel MR, Roberts M, **Lockwood M**, Nothias J-M, Shah M, Millis JM, editors. Interim Report of the University of Chicago series with islet transplantation via the Edmonton protocol. *Xenotransplantation*; 2007: Blackwell Publishing 9600 Garsington RD, Oxford OX4 2DQ, Oxon, England.
4. Misawa, R., Garfinkel, M., Thistlethwaite, J., Singraber, K., Dronavalli, S., Pannain, S., **Lockwood, M.B.** & Witkowski, P. (2012). Results of 8 Year Follow Up after Pancreatic Islets Transplantation for Brittle Type 1 Diabetes.: Abstract# 1279: Poster Board#-Session: P146-III. *American Journal of Transplantation*, 12.
5. Potter, L., Kane, B., **Lockwood, M.**, Bodzin, A., Covington, D., Mayer, K., & Millis, J. M. (2016, July). Prospective randomized controlled study evaluating the relationship between electronic adherence data and tacrolimus concentration data. In *Transplantation* (Vol. 100, No. 7, pp. S317-S317). Two Commerce SQ, 2001 Market St, Philadelphia, PA 19103 USA: Lippincott Williams & Wilkins.
6. Kane, B., **Lockwood, M.**, Bodzin, A., Potter, L., Lourenco, L., & Millis, J. M. (2016, July). Randomized controlled study evaluating adherence monitoring with electronic feedback on reducing renal allograft rejection. In *Transplantation* (Vol. 100, No. 7, pp. S430-S430). Two Commerce SQ, 2001 Market St, Philadelphia, PA 19103 USA: Lippincott Williams & Wilkins.
7. Kane, B., **Lockwood, M.**, Potter, L., Lourenco, L., Bodzin, A., Covington, D., ... & Millis, J. (2016, June). Prospective Randomized Controlled Study Evaluating the Relationship Between Electronic Adherence Data and Tacrolimus Concentration Data. In *American Journal of Transplantation*(Vol. 16, pp. 626-626). 111 River St, Hoboken 07030-5774, NJ USA: Wiley.
8. **Lockwood, M.**, Potter, L., Kane, B., Bodzin, A., Lourenco, L., & Millis, J. M. (2016, July). Prospective randomized controlled study evaluating the impact of an electronic feedback system (EFS) on medication adherence in solid organ transplantation. In *Transplantation* (Vol. 100, No. 7, pp. S430-S430). Two Commerce SQ, 2001 Market St, Philadelphia, PA 19103 USA: Lippincott Williams & Wilkins.
9. **Lockwood, M.**, Dunn-Lopez, K., Pauls, H., Burke, L., Becker, Y., & Saunders, M. (2018, June). Facilitators and Barriers to Patient Portal Use among Pre-and Post-Kidney Transplant Patients at an Urban Center in the United States. In *American Journal of Transplantation* (Vol. 18, pp. 693-693). 111 River st, Hoboken 07030-5774, NJ USA: Wiley.
10. **Lockwood M.B.**, DeVon, H., Maienschein-Cline. M., Chlipala, G., Samra, M., Lichvar, A., & Green, S. The Role of the Gut Microbiota in Pain Interference Before and After Kidney Transplantation: A Pilot Study [abstract]. *Am J Transplant*. 2022; 22 (suppl 3). <https://atcmeeetingabstracts.com/abstract/the-role-of-the-gut-microbiota-in-pain-interference-before-and-after-kidney-transplantation-a-pilot-study/>. Accessed June 9, 2022.

11. Li, H., **Lockwood, M.B.**, Danico, O.C., & Doorenbos, A.Z. Tryptophan and Kynurenine Pathway Metabolites and Psychoneurological Symptoms Among Breast Cancer Survivors. Podium presentation at the ONS 47th Annual Congress, April 29, 2022, Anaheim, CA.

### **Book Chapter/Other Publications**

1. Ishaq, S., Wissel, E.F., Stephens, A., Parada, F.J., & **Lockwood, M.B.** (2023). (Curriculum development, Topic Framework: Microbes and Social Equity). Microbes and Social Equity: What do microbes have to do with the way we live? *The International Microbiology Literacy Initiative*. The initiative aims to provide new materials for the teaching of microbiology in schools in order to create a society that is literate in key aspects of microbiology that are important for knowledge-based everyday family decisions, as well as regional, national and global policy decisions affecting everyone and the planet. <https://ebnet.ac.uk/microbiology-literacy/#:~:text=The%20initiative%20aims%20to%20provide,decisions%20affecting%20everyone%20and%20the.>

### **Selected presentations:**

25. University of Illinois Health, Nursing Grand Rounds, 3/15/23, “Precision Health in Nursing: Nursing Care for the 21st Century”, Chicago, IL, Invited presentation.

24. University of Illinois Chicago College of Nursing Annual Research Day, 3/10/23. “Pain Interference in End Stage Kidney Disease is Associated with Changes in Gut Microbiome Features Before and After Kidney Transplantation”, Chicago, IL, Invited presentation.

23. International Transplant Nurses Society Annual Symposium, 10/22/2022, “Pain Interference in End Stage Kidney Disease is Associated with Changes in Gut Microbiome Features Before and After Kidney Transplantation.”, Chicago, IL, Oral presentation.

22. American Transplant Congress, June 2-6, 2022, “The Role of the Gut Microbiota in Pain Interference Before and After Kidney Transplantation: A Pilot Study.”, Boston, MA, Poster presentation.

21. International Transplant Nurses Society Annual Symposium, Transplant Nursing in the 21<sup>st</sup> Century: The Universal Code for Care. November 2019, “Considerations When Designing a Microbiome Study: New Frontiers of Nursing Science.”, Orlando, FL. Oral Presentation.

20. International Transplant Nurses Society Annual Symposium, Transplant Nurses: Leaders in Excellence. September, 2018, “Patient Portal Use Among Pre- and Post-Kidney Transplant Patients at an Urban Transplant Center in the United States.”, Chicago, IL. Oral Presentation.

19. International Transplant Nurses Society Annual Symposium, Transplant Nurses: Leaders in Excellence. September, 2018, “Why I went to the NINR’s Summer Genetics Institute and Why You Should Too!”, Chicago, IL. Oral Presentation.

18. American Transplant Congress, June 2-6, 2018, “Facilitators and Barriers to Patient Portal Use among Pre- and Post-Kidney Transplant Patients at an Urban Center in the United States”, Seattle, WA, Poster presentation.

17. 2018 Midwest Research Nursing Society Annual Conference, Chung, S.Y. & Lockwood, M. “Symptom Clusters in Patients with Chronic Kidney Disease: A Review of Literature”, Cleveland, OH, April 12-15, 2018. (Oral Presentation, presented by Dr. Chung).

16. 44<sup>th</sup> Biennial Convention, Honors Society of Nursing: Sigma Theta Tau, October 2017 “In-Home Internet Use Increases as the Number of Internet Users in the Household Increases”. Indianapolis, IN, Oral Presentation.

15. 2017 International Transplant Nurses Society Annual Symposium, Reflections of Transplant Nursing Excellence. June, 2017, “Using Lean Management Philosophy to Develop a Plan for a One-day Pre-kidney Transplant Evaluation at an Urban Transplant Center in the United States via a Kaizen Event”, Orlando, FL. Oral Presentation (presented by Patrice Pfeiffenberger, BSN, RN).

14. 2017 American Transplant Congress, April 26-May 3, 2017, “Patient-reported Barriers to the Pre-kidney Transplant Evaluation in an At-risk Population in the United States“. Chicago, IL, Poster presentation

13. 2016 International Transplant Nurses Society Symposium, Transplant Nursing: Bridging passion, practice, and patient care. October 16, 2016, “Determining Predictors of In-home Internet Access and Use of Personal Health Record (PHR) Systems in an Urban End Stage Kidney Disease (ESKD)/Post-kidney Transplant Population in the United States”, Pittsburg, PA. Oral Presentation, (Plenary session).

12. 2016 American Transplant Congress, June 11-15, 2016, “Prospective Randomized Controlled Study Evaluating the Impact of an Electronic Feedback System (EFS) on Medication Adherence in Solid Organ Transplantation”, Boston, MA, Oral presentation

11. 2016 American Transplant Congress, June 11-15, 2016, “Randomized Controlled Study Evaluating Adherence Monitoring with Electronic Feedback on Reducing Renal Allograft Rejection”, Boston, MA, Oral presentation

10. 2016 American Transplant Congress, June 11-15, 2016, “Prospective Randomized Controlled Study Evaluating the Relationship Between Electronic Adherence Data and Tacrolimus Concentration Data”, Boston, MA, Poster presentation

9. 2015 Sigma Theta Tau International's 26th International Nursing Research Congress, July 23, 2015, "There's an app for that, is there an audience for that?: Determinants of Smartphone ownership and comfort of use in an urban pre and post renal transplant population", San Juan, Puerto Rico, Oral presentation.
8. 2015 International Transplant Nurses Society Summer Symposium, Transplant Nursing: A Journey to the Top/ June 12, 2015, "Nonmedical Barriers for African Americans Associated with Referral and the Pre-kidney Transplant Evaluation in the United States: A Synthesis of the Literature", Chicago, IL, Poster presentation
7. 2015 International Transplant Nurses Society Summer Symposium, Transplant Nursing: A Journey to the Top. June 13, 2015, "Objective and Subjective Barriers to the Pre-kidney Transplant Evaluation." Chicago, IL. Oral Presentation, (Plenary session).
6. 2014 Nursing Grand Rounds, University of Chicago, November, 2014, "How to conduct a synthesis of the literature", Chicago, IL. Lecture.
5. 2014 23<sup>rd</sup> Annual International Transplant Nurses Society Symposium, One World of Caring, September 27, 2014, "Determinants of Internet Use at an Urban Transplant Center: Characterizing the Digital Divide.", Houston, TX, Oral Presentation.
4. 2013 42<sup>nd</sup> Biennial Convention, Honors Society of Nursing: Sigma Theta Tau, November 2013 "Renal Transplantation and the Digital Divide: Does Information and Communication Technology Represent a Barrier or a Bridge to Transplantation for African Americans?", Indianapolis, IN, Oral Presentation.
3. 2013 Chicago Center for Diabetes Translational Research, October 11, 2013 "a prospective Study to Assess Psychosocial Factors that Influence Completion of the Renal Transplant Evaluation at an Urban Transplant Center", Chicago, IL, Oral presentation
2. 2013 University of Chicago Medicine Nursing Research and Evidence-Based Practice Symposium, April 2013 "Renal Transplantation and the Digital Divide: Does Information and Communication Technology Represent a Barrier or a Bridge to Transplantation for African Americans?", Chicago, IL, Poster Presentation.
1. 2012 Nursing Grand Rounds, University of Chicago, November, 2012, "Renal Transplantation and the Digital Divide: Does Information and Communication Technology Represent a Barrier or a Bridge to Transplantation for African Americans?", Chicago, IL. Lecture.

**Invited Panelist/Lecturer:**

- Dec. 2021 World Kidney Consensus Conference: Living-Well-with-Kidney-Disease Effective Symptom Management, "Key Concepts in Symptom Science and Future Directions in CKD", December 2, 2021, Honolulu, Hawaii (Hybrid format).

- Oct. 2020 International Transplant Nurses Society Symposium “More Than a Feeling: The Brain Gut Microbiome Axis and Solid Organ Transplantation”. October 25, 2020, Chicago, IL. Plenary Session.
- Jan. 2020 National Advisory Council for Nursing Research, National Institute of Nursing Research, “The Mentors Who Made Me: My Journey to Become a Nurse Scientist”, January 14, 2020, Bethesda , MD.
- Nov. 2019 International Transplant Nurses Society Symposium, Transplant Nursing in the 21<sup>st</sup> Century: The Universal Code for Care. “ Introduction to the Microbiome: New Frontiers in Nursing Science and Clinical Practice”. November, 2019, Orlando, FL. Pre symposium presentation: Genomics 101.
- Oct. 2016 International Transplant Nurses Society Symposium, Transplant Nursing: Bridging passion, practice, and patient care. October 13, 2016, “Let ITNS Help Take Your Career to the Next Educational Leve: Leadership, Mentoring, and Career Development in Transplant Nursing”, Pittsburg, PA. Pre-symposium Program, (developed in conjunction with Laura Taylor, PhD, RN, ANEF, Cynthia Russell, PhD, RN, FAAN, Donna Hathaway, PhD, RN, FAAN, Catherine Pantik, RN, and Justin Bilik, RN).
- Jun., 2016 Visiting Scholar Presentation, Patient-reported Barriers to the Pre-kidney Transplant Evaluation in an At-risk Population in the United States. University of Illinois at Chicago College of Nursing, June 2016, Chicago, IL.
- Sep., 2015 Gift of Hope Organ Procurement Network  
Explore Transplant: Dialysis Provider Training, Chicago, IL, Expert panel.
- 2011-2016 University of Chicago Medicine, Office of Clinical Research,  
Fundamentals of Clinical Research: Informed consent biannual lecture.  
Chicago, IL

### **STUDENT ADVISING/DISSERTATION COMMITTEES**

- 2018-2020 Deborah Walczak, PhD student, “Effect of Body Mass Index on Kidney Transplant Outcomes and Health Related Quality of Life”, Dissertation committee member.
- 2018-2020 Elena Ignatiev, DNP student, “Standardized Patient Education for Decompensated Cirrhotic Patients and its Impact on Clinician Satisfaction”, Project advisor.
- 2019-2020 Hyejin Chong, Visiting Scholar from South Korea, Faculty advisor.
- 2019-2023 Choa Sung PhD Student, “Long-term Effects of Transplantation on the Oral and Gut Microbiome and the Relationship to PNS”, Dissertation chair.
- 2018-2021 Asha Matthews, PhD Student, Dissertation committee.

- 2022-2023 Susan George, UIC Honors College capstone advisor, Title: Health Literacy Strategies that affect Self-management of Hypertension.  
 2020-present Wirampa Tangali, PhD student, Dissertation chair.

**STUDENT AWARDS**

Choa Sung (PhD advisee 2019-2023)

- 2022 –2023 Dean’s Scholar Fellowship, UIC Graduate College  
 2022 Beverly J. McElmuray Scholarship Fund, UIC College of Nursing  
 2022 Student Research Grant, Sigma Alpha Lambda Chapter  
 2022 PhD Research Award, UIC College of Nursing  
 2021 Chieko Onoda Scholarship, UIC College of Nursing  
 2019&2021 Virginia Ohlson International Scholarship, UIC College of Nursing  
 2021 Award for Graduate Research, UIC Graduate College  
 2021 Summer Institute in Statistical Genetics Scholarship, University of Washington  
 2020 Chicago Consular Corps Scholarship, UIC Office of International Affairs  
 2020 Net Project: Development of Pressure-Indicating Film for Application to Medical Devices, Korean Federation of Science and Technology Societies  
 2020 INF Centennial Scholarship, Illinois Nurse Foundation  
 2019 W. E. Van Doren Scholarship Fund, UIC College of Nursing  
 2019 – 2021 Dean's Award, UIC College of Nursing

**TEACHING**

*Courses taught*

- Spring 2018 NURS 516 Evidence Based Practice 2, (Graduate, approx. 5 students).  
 Spring 2018 NURS 555 Evidence Based Practice 3, (Graduate advisor, Elena Ignatiev).  
 Fall 2018 NURS 556 Evidence Based Practice 4, (Graduate advisor, Elena Ignatiev).  
 Spring 2019 NURS 557 Evidence Based Practice 5, (Graduate advisor, Elena Ignatiev).  
 Spring 2019 NURS 422 Pharmacology (AGMS, approx. 95 students).  
 Fall 2017-20 NURS 304 Professional Nursing 3 (Undergraduate, approx. 90 students).  
 Fall 2022- NURS 304 Professional Nursing 3 (Undergraduate, approx. 76 students)  
 Spring 2023 NURS 387 Senior Seminar (Undergraduate, approximately 76)

*Guest lecture*

- Fall 2018 NURS 533, Applied Pharmacotherapeutics: Solid Organ Transplantation, (Graduate, approx. 50 students).  
 Fall 2020 NURS 537, Physiological Measurement: Measurement in Microbiome Research, (Graduate, approx. 25 students).  
 Spring 2021 NURS 594, Advanced Pathophysiology and Pharmacology: Introduction to the Microbiome: New Frontiers in Nursing Research and Clinical Practice.  
 Spring 2021 NURS 304, Professional Nursing 3: Measurement, in quality and Safety, Using un charts.  
 Fall 20201 NURS 537, Physiological Measurement: Measurement in Microbiome Research, (Graduate, approx. 25 students).

Spring 2022 NURS 594, Advanced Pathophysiology and Pharmacology: Introduction to the Microbiome: New Frontiers in Nursing Research and Clinical Practice.

### **PROFESSIONAL ACTIVITIES:**

#### Membership and Professional Organizations:

##### Current

2021 Member, Microbes and Social Equity Group, University of Maine  
2020 Member, International Society of Nurses in Genomics  
2017 Member, The Transplantation Society  
2011 Member, International Transplant Nurses Society  
2010 Member, The Honors Society of Nursing, Sigma Theta Tau International

##### Past

2019 Member, National Kidney Foundation  
2017-2019 Member, American Society of Transplantation  
2017-2018 Member, American Nephrology Nurses' Association  
2005-2018 Association of Clinical Research Professionals  
2009-2016 Co-chair, University of Chicago Nursing Evidence-Based Practice and Research Council  
2009-2010 Gift of Hope, African American Task Force  
2000-2004 Human Studies Committee, subcommittee member, Washington University at St. Louis

##### Reviewer (peer reviewed journal/conference abstracts)

2023-present Transplantation  
2020-present Biological Research for Nursing  
2019-present Western Journal of Nursing Research  
2019-present American Journal of Kidney Disease  
2019-present Clinical Journal for the American Society of Nephrology  
2018-present Progress in Transplantation  
2018-present Journal of Urology  
2018-present Nephrology Nursing Journal  
2018-present Sigma Theta Tau, The Honor Society of Nursing  
2012-2020 University of Chicago Evidence-Based Practice and Research Council

### **SERVICE/VOLUNTEERING/FUND RAISING**

##### Current (University)

2017-present Cardiometabolic Research Interest Group (member)  
2017-present Holistic Admission Interviews (Undergraduate & graduate students)

##### Past (University)

2023 UIC Nursing Productivity Report Review Committee (Chair)  
2020-2022 UIC Nursing Research Committee (Committee chair 2021-2022)

Feb. 2022	UIC Nursing MRNS Student Poster Reviewer
Jan. 2022	COVID 19 Response Team, UIC University Health Services
Feb. 2021	UIC Nursing MRNS Student Poster Reviewer
Feb. 2021	UIC Nursing Research Day, Moderator Panel Discussion
2021	UIC Nursing Harriet Werely Chair Search committee (member)
3/20-7/20	COVID 19 Response Team, UIC University Health Services
2019	UIC Nursing Associate Dean of Equity and Inclusion Search Committee (member)
2019-2020	UIC Nursing Scholarship Committee (member/chair)
2017-2019	UIC Nursing Search Committee (member/chair) <u>Current (Professional)</u>
2021	Midwest Research Nursing Society Annual Symposium Planning Committee (2022)
2011-present	Illinois Kidney Foundation Annual Kidney Walk Role: Participant, Fund raising (\$500-\$3,500/annually)
<u>UIC Nursing NIH Mock Reviews</u>	
Jan. 2021	Rivera-K23 (reviewer)
Apr. 2021	Fink -R01 (reviewer)
Sep, 2021	Li-R34 (reviewer)
Oct. 2021	Rivera-K23 (reviewer)
Nov. 2022	Lennon-F31 (Primary reviewer)
<u>Past (Professional/Community)</u>	
2023	National Kidney Foundation of Illinois, Walk for Kidneys Planning Committee
2023	International Transplant Nurses Society Annual Symposium Planning Committee (Member/abstract reviewer)
2019-2020	Illinois National Kidney Foundation Mobile Kidney Public Kidney Disease Screenings
2018-2020	Sigma: the Honors Society of Nursing, Symposium abstract reviewer
2020	International Transplant Nurses Society Community Champion
2018	International Transplant Nurses Society Annual Symposium Planning Committee (Member/abstract reviewer)
Sept. 2016	8 <sup>th</sup> annual Walgreens First Ladies Health Initiative St. Mark United Methodist Church (First Lady: Sharon Brown) Role: Diabetes Screening
Aug. 2016	Illinois Secretary of State's Office: Wave Away the Waiting 2016 Minority Donor Awareness Day Role: Coordinator (University of Chicago)
May. 2016	14 <sup>th</sup> annual Day of Service and Reflection University of Chicago Urban Health Initiative Role: Team Leader
Sept. 2015	7 <sup>th</sup> annual Walgreens First Ladies Health Initiative True Light Baptist Church (First Lady: Cassandra Kidd) Role: Diabetes Screening



- May. 2015 13<sup>th</sup> annual Day of Service and Reflection  
University of Chicago Urban Health Initiative  
Role: Team Leader
- Nov. 2014 2014 Annual Nursing Research Symposium  
Water.org Fundraising Drive  
Role: Organizer/coordinator  
Raised \$4,715
- Aug. 2013 Illinois Secretary of State's Office: Wave Away the Waiting  
2013 Minority Donor Awareness Day  
Role: Coordinator (University of Chicago)
- May. 2011 9<sup>th</sup> annual Day of Service and Reflection  
University of Chicago Urban Health Initiative  
Role: Participant

### **Certification/Licensure/Training**

#### Current

- #041-347311. Registered Nurse  
Illinois State Board of Nursing
- 1993-present CPR Certified

#### Past

- 2005-2018 Certified Clinical Research Coordinator  
Association of Clinical Research Professional

### **NEWS AND MEDIA:**

- 2020 National Kidney Foundation of Illinois, 2020 Walk for Kidneys, Louie's Walk for Kidneys Cooking Show, September 13, 2020:  
<https://www.youtube.com/watch?v=1xY3zN0uPgQ&list=PLHs1Qtcg-jyC7ghUJoEdVBYih3qGBpe9g>
- 2020 University of Illinois at Chicago College of Nursing, Faces on the Front, March 30, 2020. <https://www.facebook.com/uic.con/>
- 2018 University of Illinois at Chicago College of Nursing, News & Events. Could changes in oral, gut bacteria contribute to symptoms for kidney transplant patients? October 16, 2019: <https://nursing.uic.edu/news-stories/could-changes-to-oral-gut-bacteria-contribute-to-symptoms-for-kidney-transplant-patients/>
- 2016 Science Life, UChicago Medicine, May13, 2016, Nursing Research Adds Unique Perspective on Care, <https://sciencelife.uchospitals.edu/2016/05/13/nursing-research-adds-a-unique-perspective-on-patient-care/>
- 2015 Nursing at the Forefront, University of Chicago Medicine. December 2015: Research Grants, [http://www.uchospitals.edu/pdf/uch\\_045865.pdf](http://www.uchospitals.edu/pdf/uch_045865.pdf)

- 2014 WVON 1690 University of Chicago Community Health Focus  
Organ donation: The pros, the cons, the truth.
- 2014 Chicago Tribune, October 29, 2014, From the community: Gift of Hope's Marion L. Shuck on Guest Panel for The University of Chicago Medicine's "Community Health Focus" Airing on WVON Talk Radio,  
<http://www.chicagotribune.com/suburbs/hinsdale/community/chi-ugc-article-gift-of-hopes-marion-l-shuck-on-guest-panel-2014-10-28-story.html>
- 2014 Science Life, UChicago Medicine, July 23, 2014, Nurses Sound Off on New Professional Practice Model,  
<https://sciencelife.uchospitals.edu/2014/07/23/nurses-sound-off-on-new-professional-practice-model/>
- 2012 Science Life, UChicago Medicine, December 6, 2012, Team Aims to Pair Living Donors Through Online Form,  
<https://sciencelife.uchospitals.edu/2012/12/06/team-aims-to-pair-patients-with-living-donors-through-online-form/>