

Kristen Elaine Howell (Dampousse)

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Education

University of Memphis, School of Public Health, Memphis, TN 8/2018 – 5/2021

Doctor of Philosophy in Epidemiology

Dissertation titled “Burden of Transition: How Reduced Mortality, Interruption of Care, and Continuity of Care can Inform Health Care Transition Programs and Improve the Health of Young Adults with Sickle Cell Disease”

Emory University, Rollins School of Public Health, Atlanta, GA 8/2016 – 5/2018

Master of Public Health in Epidemiology

University of Oklahoma, College of Arts and Sciences, Norman, OK 8/2012 – 5/2016

Bachelor of Science, Biology, Chemistry minor

Work Experience

8/2023 – Current

Assistant Professor, Department of Epidemiology and Biostatistics, Texas A&M University

- Collaborated on research efforts with St. Jude Children’s Research Hospital in the Departments of Epidemiology and Cancer Control, Hematology, and Psychology
- Courses taught:
 - PHLT 305: Epidemiology Public Health
 - PHEB 620: Cancer Epidemiology
 - PHEB 610: Epidemiologic Methods II
- Co-Chair of the Program in Reproductive and Child Health
- Research Committee Member
- Journal Club Committee Member
- Social Committee Member
- Review graduate program admission applications

9/2022 – 8/2023

Clinical Research Scientist, Department of Epidemiology and Cancer Control, St. Jude Children’s Research Hospital

- Contributed to research efforts towards a mobile health project titled Patient-Generated Health Data to Predict Childhood Cancer Survivorship Outcomes. Funded by: R01CA258193 (PI: I-Chan Huang, PhD and Yutaka Yasui, PhD).
- Roles include protocol development, survey development and implementation, collaboration with industry partners (WHOOP and iHealth), and participant education and interaction.

7/2021 – 9/2022

Postdoctoral Research Fellow, Department of Psychology, St. Jude Children’s Research Hospital

- Performed quantitative analyses on projects focusing on Sickle Cell Disease and transition to adult care.
- Collaborated with multiple research institutions on projects for the NHLBI-funded Sickle Cell Disease Implementation Consortium.

- Participated in a six-month grant-writing workshop.
- Mentored two students in the High School Research Immersion Program.
- Contributed to research efforts towards the following IRB-approved protocols:
 - Longitudinal Examination of Predictors and Outcomes of Sickle Cell Disease (LEAPS) (PI: Jerlym Porter, PhD)
 - Exploring Adherence Monitoring in Sickle Cell Disease (ExAMS) (PI: Jerlym Porter, PhD)
 - Sickle Cell Clinical Research and Intervention Program (SCCRIP) (PI: Jane Hankins, MD)
 - Transition Outcomes for Sickle Cell Patients (TOSCP) (PI: Jane Hankins, MD)
 - Reduced intensity related donor peripheral blood derived hematopoietic progenitor cell transplantation for patients with severe sickle cell disease (SCDHCT) (PI: Ackshay Sharma, MD)

8/2018 – 5/2021

Graduate Assistant, Department of Epidemiology and Biostatistics, University of Memphis

- Performed quantitative analyses on projects focusing on Sickle Cell Disease and hydroxyurea
- Performed quantitative and qualitative analyses focusing on Lung Cancer
- Funded by: R073223660 (PI: Robert Davis, MD). 11/01/2016-10/01/2021 ECOSYSTENN: Education and Clinical Outcomes in Youth with Sickle Cell in Tennessee. Memphis Research Consortium (Fall 2018)
- Funded by: U01HL133996-01 (PI: Jane Hankins, MD, M.S). 07/01/2016-06/30/2022 ReHASH: Re-aiming at Hydroxyurea Adherence for Sickle Cell with mHealth (Budget: \$4,290,004) (Spring 2019-Spring 2021)

5/2019 – 7/2021

Student researcher, Department of Hematology, St. Jude Children's Research Hospital

- Performed quantitative analyses on projects focusing on Sickle Cell Disease and transition to adult care.
- Collected data in the hematology clinic for the Sickle Cell Clinical Research Intervention Program (SCCRIP)

8/2020 – 5/2021

Teaching Assistant (Analytic and Research Methods I), Department of Epidemiology and Biostatistics, University of Memphis

- Lectured, designed/graded homework and exams.

8/2019 – 8/2019

Teaching Assistant (SAS Seminar), Department of Epidemiology and Biostatistics, University of Memphis

- Assisted students with learning SAS syntax and procedures.

1/2018 – 5/2018

Teaching Assistant (Fundamentals of Epidemiology), Department of Epidemiology, Emory University

- Held office hours, answered student questions, and graded assignments and exams

- 5/2017 – 8/2017 **Student researcher (Practicum)**, Children’s Healthcare of Atlanta
- Assisted on a project in the Hematology/Oncology department focusing on children’s cancer survivors and physical activity.
 - Provided scoring support for patient-recorded outcomes.
 - Integrated patient data from 3 sources into one database.
 - Contacted patients with missing data.
- 5/2015 – 8/2015 **Student researcher**, Department of Epidemiology and Biostatistics, University of Oklahoma Health Sciences Center
- Conducted field research for a study on the marketing of vapor products in Cleveland County, OK.
 - Conducted literature reviews, collected data, analyzed data.
- 5/2014 – 8/2014 **Student researcher**, Department of Epidemiology and Biostatistics, University of Oklahoma Health Sciences Center
- Conducted literature reviews and analyzed data focusing on oral cavity cancer and tobacco use.
 - Assisted in editing the Youth Risk Behavioral Surveillance System with regards to tobacco use questions.

Publications

- 2024 Longoria, J. N., **Howell, K. E.**, Porter, J. S., Treadwell, M., King, A. A., Gordeuk, V., Shah, N., Abrams, C. M., McCuskee, S., Gollan, S., Hankins, J. S., Heitzer, A. M., & Sickle Cell Disease Implementation Consortium (2024). Depression, sleep and pain affect instrumental activities of daily living through cognitive functioning in adults with sickle cell disease: A report from the Sickle Cell Disease Implementation Consortium. *British journal of haematology*, 10.1111/bjh.19881. Advance online publication. <https://doi.org/10.1111/bjh.19881>
- 2024 **Howell, K. E.**, Baedke, J. L., Bagherzadeh, F., McDonald, A., Nathan, P. C., Ness, K. K., Hudson, M. M., Armstrong, G. T., Yasui, Y., & Huang, I. C. (2024). Using mHealth Technology to Evaluate Daily Symptom Burden among Adult Survivors of Childhood Cancer: A Feasibility Study. *Cancers*, 16(17), 2984. <https://doi.org/10.3390/cancers16172984>.
- 2024 **Howell, K. E.**, Shaw, M., Santucci, A. K., Rodgers, K., Ortiz Rodriguez, I., Taha, D., Laclair, S., Wolder, C., Cooper, C., Moon, W., Vukadinovich, C., Erhardt, M. J., Dean, S. M., Armstrong, G. T., Ness, K. K., Hudson, M. M., Yasui, Y., & Huang, I. C. (2024). Using an mHealth approach to collect patient-generated health data for predicting adverse health outcomes among adult survivors of childhood cancer. *Frontiers in oncology*, 14, 1374403. <https://doi.org/10.3389/fonc.2024.1374403>
- 2024 **Howell K. E.**, Kayle, M., Smeltzer, M. P., Nolan, V. G., Mathias, J. G., Nelson, M., Anderson, S., Porter, J. S., Shah, N., & Hankins, J. S. (2024). Gaps during pediatric to adult care transfer escalate acute resource utilization in sickle cell disease. *Blood advances*, 8(14), 3679–3685. <https://doi.org/10.1182/bloodadvances.2023011268>

- 2023 **Howell, K. E.**, Pugh, N., Longoria, J., Shah, N., Kutlar, A., Gordeuk, V. R., King, A. A., Glassberg, J., Kayle, M., Melvin, C., Treadwell, M., Hankins, J. S., & Porter, J. S. (2023). Burden of Aging: Health Outcomes Among Adolescents and Young Adults With Sickle Cell Disease. *HemaSphere*, 7(8), e930. <https://doi.org/10.1097/HS9.0000000000000930>
- 2023 Bhatt, N., Calhoun, C., Longoria, J., Nwosu, C., **Howell, K. E.**, Varughese, T., Kang, G., Jacola, L. M., Hankins, J. S., & King, A. (2023). Health literacy correlates with abbreviated full-scale IQ in adolescent and young adults with sickle cell disease. *Pediatric blood & cancer*, 70(5), e30281. <https://doi.org/10.1002/pbc.30281>.
- 2022 **Howell, K. E.**, Heitzer, A. M., Longoria, J. N., Potter, B., Wang, W. C., Anderson, S., Kang, G., Hankins, J. S., & Porter, J. S. (2022). Assessment of transition readiness to predict health care utilization during transition to adult care in sickle cell disease. *Expert review of hematology*, 15(12), 1063–1072. <https://doi.org/10.1080/17474086.2022.2144216>
- 2022 Williamson Lewis, R., **Howell, K. E.**, Effinger, K. E., Meacham, L. R., Wasilewski-Masker, K., Mertens, A., & Gilleland Marchak, J. (2023). Feasibility of Fitbit Use in Adolescent Survivors of Pediatric Cancer: Who Consistently Uses It and for How Long? *Journal of adolescent and young adult oncology*, 12(4), 529–536. <https://doi.org/10.1089/jayao.2022.0071>
- 2021 Smeltzer, M. P., **Howell, K. E.**, Treadwell, M., Preiss, L., King, A. A., Glassberg, J. A., Tanabe, P., Badawy, S. M., DiMartino, L., Gibson, R., Kanter, J., Klesges, L. M., Hankins, J. S., & Sickle Cell Disease Implementation Consortium (2021). Identifying barriers to evidence-based care for sickle cell disease: results from the Sickle Cell Disease Implementation Consortium cross-sectional survey of healthcare providers in the USA. *BMJ open*, 11(11), e050880. <https://doi.org/10.1136/bmjopen-2021-050880>
- 2021 **Howell, K. E.**, Saulsberry-Abate, A. C., Mathias, J. G., Porter, J. S., Hodges, J. R., Ataga, K. I., Anderson, S., Nolan, V., & Hankins, J. S. (2021). Transition care continuity promotes long-term retention in adult care among young adults with sickle cell disease. *Pediatric blood & cancer*, 68(10), e29209. <https://doi.org/10.1002/pbc.29209>
- 2020 Mathias, J. G., Nolan, V. G., Meadows-Taylor, M., Robinson, L. A., **Howell, K. E.**, Gurney, J. G., Hankins, J. S., Wang, W. C., Estep, J. H., & Smeltzer, M. P. (2020). A meta-analysis of toxicities related to hydroxycarbamide dosing strategies. *EJHaem*, 1(1), 235–238. <https://doi.org/10.1002/jha2.7>
- 2020 Smeltzer, M. P., Wynes, M. W., Lantuejoul, S., Soo, R., Ramalingam, S. S., Varella-Garcia, M., Meadows Taylor, M., Richeimer, K., Wood, K., **Howell, K. E.**, Dalurzo, M. L., Filip, E., Hollenbeck, G., Kerr, K., Kim, E. S., Mathias, C., Pacheco, J., Postmus, P., Powell, C., Tsuboi, M., ... Hirsch, F. R. (2020). The International Association for the Study of Lung Cancer Global Survey on Molecular Testing in Lung Cancer. *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*, 15(9), 1434–1448. <https://doi.org/10.1016/j.jtho.2020.05.002>.

- 2016 Brame, L. S., Mowls, D. S., **Damphousse, K. E.**, & Beebe, L. A. (2016). Electronic nicotine delivery system landscape in licensed tobacco retailers: results of a county-level survey in Oklahoma. *BMJ open*, 6(6), e011053. <https://doi.org/10.1136/bmjopen-2016-011053>
- 2015 **Damphousse, K. E.**, Mowls, D. S., & Beebe, L. A. (2015). An Ecological Analysis of Tobacco Use and Oral Cavity and Pharynx Cancers in U.S. Males. *The Journal of the Oklahoma State Medical Association*, 108(11), 488–491

Manuscripts in Progress

- Johnson AA, **Howell KE**, Loew M, Keenan ME, Porter JS. “Adaptive Functioning Predicts Health-Related Quality of Life in Youth with Sickle Cell Disease”. In progress.
- Spencer, D. , Liu, X., Mosema, K., Kaandosi, G., Munajjel, F.A., Mohammed, B., Bramble, M.S., Likuba, E., Tshibambe, L., Anwar, S.M., Porras, A.R., Colwell, B., **Howell, K.**, Okitundu, D., Mumba, N.D., Vilain, E., Tshala-Katumbay, D. & Linguraru, M.G. “Machine Learning classification of distinct facial characteristics in Sickle Cell Disease.” In progress.

Oral Presentations

- **Howell K. E.**, Kayle, M., Smeltzer, M. P., Nolan, V. G., Mathias, J. G., Nelson, M., Anderson, S., Porter, J. S., Shah, N., & Hankins, J. S. “Gaps during pediatric to adult care transfer escalate acute resource utilization in sickle cell disease.” Helios Speaker Series (2024).
- **Howell KE**, Ferris ME, Russel K, Brigden J, Griffith J, Saunders J, Simpson P, Hankins JS, Porter JS. “Validation of the UNC TRxANSITION Index among Adolescents and Young Adults with Sickle Cell Disease.” Health Care Transition Research Consortium (2022).
- **Howell KE**, Hankins JS, Porter JS. “Transition from Pediatric to Adult Care among Adolescents and Young Adults with Sickle Cell Disease.” Department of Psychology Rounds, St Jude Children’s Research Hospital (2022).
- **Howell KE**, Pugh N, Hankins JS, and Porter JS. “Burden of Aging – Clinical and Psychosocial Outcomes Among Adolescents and Young Adults with Sickle Cell Disease”. Foundations of Sickle Cell Disease Research Symposium (2022).
- **Howell KE**, Saulsberry A, Mathias J, Porter J, Hodges J, Ataga K, Anderson S, Nolan V, and Hankins J. “Transition Continuity Promotes Long-Term Retention in Adult Care Among Young Adults with Sickle Cell Disease.” Health Care Transition Research Consortium (2020).
- Garcia MV, Smeltzer M, Wynes M, Lantuejoul S, Soo RA, Dalurzo L, Felip E, **Howell K**, Kerr K, Kim E, Mathias C, Postmus P, Powell C, Ramalingam S, Richeimer K, Taylor M, Tsuboi M, Wistuba I, Wood K, Scagliotti G, Hirsch F. Results from the IASLC Global Survey on Molecular Testing in Lung Cancer. Latin America Conference on Lung Cancer Presidential Symposium (2019).
- Smeltzer M, Wynes M, Taylor M, Richeimer K, Wood K, **Howell K**, Dalurzo M, Felip E, Kerr K, Kim E, Lantuejoul S, Mathias C, Postmus P, Powell C, Ramalingam S, Soo R, Tsuboi M, Wistuba I, Garcia MV, Scagliotti G, Hirsch FR. The International Association for

the Study of Lung Cancer (IASLC) Global Survey on Molecular Testing in Lung Cancer. World Conference on Lung Cancer (2019).

Poster Presentations

- **Howell KE**, Bagherzadeh F, McDonald A, Ness K, Hudson M, Robison L, Armstrong G, Nathan PE, Yasui Y, Huang I. "Using mHealth Technology to Evaluate Daily Symptom Burden Among Adult Survivors of Childhood Cancer: A Feasibility Study." International Symposium on Late Complications After Childhood Cancer (2023).
- Hankins JS, Porter JS, Anderson S, Heitzer A, Longoria J, Kang G, Aurora T, Azul M, **Howell KE**, Bryndziar T, Saldana L, King A, Klesges L, Geng E, Figueiredo M, Miranda H, Moura P, Braga J, Lobo C, Baumann A. P-070: Planning implementation of pediatric-to-adult care transition in sickle cell disease in Brazil. HemaSphere (2022).
- **Howell KE**, Kayle M, Smeltzer MP, Nolan VG, Gurney JG, Mathias JG, Porter JS, Nelson M, Anderson S, Shah N, Hankins JS. "Impact of Gaps in Care during Adult Care Transfer in Sickle Cell Disease". American Society of Hematology (2021).
- Saulsberry AC, **Howell KE**, Mathias J, Porter JS, Hodges JR, Ataga KI, Anderson S, Nolan VG, Hankins JS; Transition Continuity Promotes Long-Term Retention in Adult Care Among Young Adults with Sickle Cell Disease. American Society of Hematology (2019).
- **Howell KE**, Williamson Lewis R, Mertens A, Marchak JG. Fitbit® Feasibility, Acceptability, and Utility for Research among Pediatric Cancer Survivors. Rollins School of Public Health Master of Public Health Poster Session (2018).
- **Damphousse KE**, Mowls D, and Beebe L. An Ecological Analysis of Tobacco Use and Oral Cavity and Pharynx Cancers in U.S. Males. University of Oklahoma Stephenson Cancer Research Center CURE Poster Session (2014).

Memberships

- Society of Epidemiologic Research, 2023 – present
- Faculty Success Program hosted by NCFDD, 2024

Skills

- Proficient in SAS, ArcGIS, REDCap, and Microsoft Office Suite.
- Epidemiologic study design
- Manuscript writing
- Grant writing

Awards

- University of Memphis, School of Public Health Student Achievement Award, 2021

Community Service

- Speed Puzzlers Club Coach, Greens Prairie Elementary, 2023 – present
- Bellevue Loves Memphis, 2018-2022
- St. Jude Children's Research Hospital Science Camp Volunteer, July 2021