

Cara L. Frankenfeld, Ph.D., F.A.C.E.

SUPERVISING EPIDEMIOLOGIST

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Dr. Cara Frankenfeld is a Supervising Epidemiologist with a doctorate in Epidemiology and a master's in Nutritional Science. She has a distinguished academic background that spans two decades and has also worked in the consulting arena. With a background in epidemiology and biostatistics, she had 20 years of experience in the design and conduct of observational and clinical human health research studies, evidence synthesis, and scientific communication to diverse audiences. Her expertise is in the design and analysis of complex data, such as microbiome, metabolome, diet, and spatial factors, as applied to chronic conditions, including cancer, cardiometabolic diseases, and overall mortality. She currently works as a Senior Biostatistician and Epidemiologist (Faculty Scientist III/Full Prof) at the Maine Health Institute for Research and also has been a Fellow of the American College of Epidemiology (F.A.C.E.) since 2014.

EDUCATION AND DEGREES EARNED

- 2003 Ph.D. in Epidemiology, University of Washington, Seattle
- 2000 M.S. in Nutritional Sciences, University of Arizona, Tucson
- 1996 B.S. in Food and Nutrition Sciences, Northern Arizona University, Flagstaff

ACADEMIC POSITIONS

2023–present	Senior Biostatistician and Epidemiologist/Faculty Scientist III, MaineHealth Institute for Research
2023–present	Special Faculty, College of Agriculture and Natural Resources, University of Maryland
2021–present	Affiliate Faculty, College of Health and Human Services, George Mason University
2021–2023	Program Director, Master of Public Health Program, University of Puget Sound
2021–2023	Associate Professor, Master of Public Health Program, University of Puget Sound
2020–2021	Affiliate Faculty, Institute for Digital InnovAtion (IDIA), George Mason University
2017–2021	Affiliate Faculty, Institute for Biohealth Innovation, George Mason University
2015–2021	Associate Professor, Dept. of Global and Community Health, George Mason University
2013–2021	Program Faculty, Microbiome Analysis Center; George Mason University
2011–2021	Affiliate Faculty, Department of Nutrition and Food Studies, George Mason University
2018–2020	Faculty Fellow, Office of Faculty Affairs and Development
2016–2019	Director of Graduate Studies, Dept. Global & Community Health, George Mason Univ.
2019	Visiting Professor, Fred Hutchinson Cancer Research Center
2019	Graduate Programs Coordinator, Department of Global and Community Health
2009–2015	Assistant Professor, Department of Global and Community Health
2008–2009	Adjunct Faculty, School of Public Health and Health Sciences, George Wash. Univ.
2008–2009	Adjunct Faculty, Department of Global and Community Health, George Mason Univ.

PROFESSIONAL ASSOCIATIONS

2021–present	Member, American Statistical Association
2014–present	Fellow, American College of Epidemiology
2012–present	Member, Society for Epidemiologic Research
2010–2013	Member, American College of Epidemiology
2009–present	Member, American Society of Nutrition

SCIENTIFIC MEETING ORGANIZER

Session Organizer and Moderator

Society for Epidemiologic Research
Novel Methodological Considerations and Applications in Nutritional and Obesity Epidemiology
Annual Meeting (June 2022)

Co-Chair for Outstanding Research Publications

American College of Epidemiology
Annual Meeting (Sept 2013)

Mini-Symposium Chair

Dietary Bioactives and Chronic Disease Risk for Experimental Biology
American Society for Nutrition (April 2011)

PROFESSIONAL SERVICE

- 2023-present Board Member, American College of Epidemiology
2014-present Editorial Board Member, *Journal of Nutrition*
2014-present Associate Editor, *Annals of Epidemiology*
2021–2023 Editor, *Dialogues in Health*
2010–2016 Member, Publication Committee, American College of Epidemiology

SELECTED PROFESSIONAL EXPERIENCE

Study Design, Execution, and Analysis

Designed and conducted data analysis for diverse projects: interventions, cohort studies, case-control studies, cross-sectional studies, systematic reviews, meta-analysis, unstructured text mining, and cluster analysis.

Published research studies in peer-reviewed journals for human health studies in a variety of topical areas: social determinants of health, diet, obesity, cardiometabolic risk, microbiome, metabolomics, biomarkers, and cancer.

Conducted secondary data analysis of observational data to inform marketing strategies for companies.

Gave invited presentations about biostatistical approaches to the microbiome and analysis of complex dietary data.

BOOKS, CHAPTERS, REPORTS

Fryzek J, **Frankenfeld C**, Movva N, Bylsma L, Acquavella J. 2022. Insights into epidemiology. In: Principles of Toxicology: Environmental and Industrial Applications, 4th edition. John Wiley & Sons, ISBN: 9781119635178.

Frankenfeld CL. 2020. Isoflavones. In: Tomás-Barberán FA, González-Sarrías A, García-Villalba R (eds), Dietary (Poly)Phenols: Their Metabolism and Health Effects. Wiley, ISBN: 9781119563747.

Merrill RM, **Frankenfeld CL**, Mink M, Freeborne N (eds). 2015. Behavioral Epidemiology: Principles and Applications. Jones & Bartlett, ISBN: 9781449648275.

Cesari HK, Falk D, **Frankenfeld C**, Rana S. 2008. Evaluation of the Activities to Promote Research Collaborations Program. Final Report to National Cancer Institute, by CSR, Inc., January.

Frankenfeld C, Taren D. 2000. HIV and infant growth. In: Watson R (ed), Nutrition and AIDS, 2nd edition. CRC Press, Boca Raton, Florida, ISBN: 97881420042290.

PUBLISHED ARTICLES

Suh M, Movva N, Jiang X, Reichert H, Pastula ST, Sacks NC, **Frankenfeld C**, Fryzek JP, Simões AF. 2024. Healthcare utilization among infants covered by Medicaid and newly diagnosed with respiratory syncytial virus. *Open Forum Infect Dis* 11:ofae174, <https://doi.org/10.1093/ofid/ofae174>.

- Rana Z, **Frankenfeld CL**, Kennedy E, Bertoldi J, de Jonge E, Cheskin L. 2024. Food sources of energy and nutrients among US college students: Health Starts Here cohort study. *J Am Coll Health* 8:1–10, <https://doi.org/10.1080/07448481.2023.2220397>.
- Hughes RL, **Frankenfeld CL**, Gohl DM, Huttenhower C, Jackson SA, Vandeputte D, et al. 2023. Methods in nutrition & gut microbiome research: An American Society of Nutrition Satellite Session. *Nutrients* 15(11):2451, <https://doi.org/10.3390/nu15112451>.
- Frankenfeld CL**. 2023. Population-specific diet quality scores in nutritional epidemiology. *J Nutr* 153(3):608–609, <https://doi.org/10.1016/j.tjnut.2023.01.004>.
- Cleaveland CL, **Frankenfeld CL**. 2023. Economic factors are strongly associated with poorer Latino mental health during COVID-19. *J Race Ethnic Dispar* 13:1–14, <https://doi.org/10.1007/s40615-022-13266-8>.
- Li H, Krall JR, **Frankenfeld C**, Slavin M. 2023. Nutritional intake of riboflavin (vitamin B2) and probable migraine: A cross-sectional analysis of the National Health and Nutrition Examination Survey (NHANES) 2001-2004. *Nutr Neurosci* 29:1–10, <https://doi.org/10.1080/1028415X.2022.2126760>.
- Jiang L, Cheskin L, Rana Z, **Frankenfeld CL**, Kennedy E, de Jonge E. 2022. Loneliness is associated with unhealthful dietary behaviors and physical inactivity among US college students. *J Am Coll Health* 17:1–6, <https://doi.org/10.1080/07448481.2022.2141060>.
- Broome CM, Hooda N, Su J, Jiang X, Nicholson G, **Frankenfeld C**, Iglesias-Rodriguez M, Fryzek J, Patel P. 2022. Medically-attended anxiety and depression is increased among newly diagnosed patients with cold agglutinin disease: Analysis of an integrated claim-clinical cohort in the United States. *PLoS One* 17(12):e0276617, <https://doi.org/10.1371/journal.pone.0276617>.
- Frankenfeld CL**. 2022. Fecal metabolome: New addition to the toolbox for dietary assessment? *J Nutr* 152(12):2643–2644, <https://doi.org/10.1093/jn/nxac233>.
- Frankenfeld CL**, Maskarinec G, Franke AA. 2022. Metabolomics profiles of premenopausal women are different based on O-desmethylangolensin metabolotype. *Brit J Nutr* 128:1490–1498, <https://doi.org/10.1017/S0007114521004463>.
- Li H, Krall JR, **Frankenfeld C**, Slavin M. 2023. Nutritional intake of riboflavin (vitamin B2) and probable migraine: A cross-sectional analysis of the National Health and Nutrition Examination Survey (NHANES) 2001-2004. *Nutr Neurosci* 29:1–10, <https://doi.org/10.1080/1028415X.2022.2126760>.
- Leslie TF, **Frankenfeld CL**, Menon N. 2022. Racial and economic residential segregation of diagnostic hospital: disparities in colorectal cancer time-to-treatment and survival in Georgia, United States. *Cancer Epidemiol* 81:102267, <https://doi.org/10.1016/j.canep.2022.102267>.
- Rosshem ME, Khoshal B, Karon S, Cheskin L, Trangenstein PJ, **Frankenfeld CL**, Ramezani N, Cuellar AE. 2022. Substance use and firearm access among college freshmen. *J Am Coll Health* 12:1–5, <https://doi.org/10.1080/07448481.2022.2068959>.
- Leslie TF, **Frankenfeld CL**, Hattery A. 2022. Differentiating Black and Hispanic: Outcome differences of segregated communities and police shootings 2011-2014. *Injury Epidemiol* 9(1):8, <https://doi.org/10.1186/s40621-022-00372-y>.
- Sullivan P, Trapido E, Acquavella J, Gillum RF, Kirby RS, Kramer MR, Carmichael SL, **Frankenfeld CL**, Yueng E, Woodyatt C, Baral S. 2022. Editorial priorities and timeliness of editorial assessment and peer review during the COVID-19 pandemic. *Ann Epidemiol* 69:24–26, <https://doi.org/10.1016/j.annepidem.2022.01.003>.
- Frankenfeld CL**. 2022. Probing beyond: Looking into the patterns within a high-quality diet. *J Nutr* 152:653–654, <https://doi.org/10.1093/jn/nxab438>.

Rana ZH, **Frankenfeld C**, Kennedy E, Bertoldo J, de Jonge E, Cheskin LJ. 2022. Why don't college freshman meet the US Dietary Guidelines for added sugar, refined grains, sodium, and saturated fat? *J Am Coll Health* 26:1–11, <https://doi.org/10.1080/07448481.2021.2024213>.

Frankenfeld CL, Lampe JW, Hullar MA, Maskarinec G, Lim U, Monroe KR, Shepherd JA, Randolph TW, Wilkens LR, Boushey CJ, Le Marchand L. 2022. Components and biomarkers of diet quality associated with the gut microbiome in the Multiethnic Cohort Study. *J Acad Nutr Diet* 122:78–98, <https://doi.org/10.1016/j.jand.2021.05.023>.

Frankenfeld CL, Hakes JK, Leslie TF. 2021. All-cause mortality and residential racial and ethnic segregation and composition as experienced differently by individual-level race, ethnicity, and gender: Mortality Disparities in American Communities data. *Ann Epidemiol* 65:38–45, <https://doi.org/10.1016/j.annepidem.2021.10.008>.

Rana ZH, **Frankenfeld CL**, de Jonge L, Kennedy EJ, Bertoldo J, Short JL, Cheskin LJ. 2021. Dietary intake and representativeness of a diverse college-attending population compared with an age-matched US population. *Nutrients* 13:3810, <https://doi.org/10.3390/nu13113810>.

Frankenfeld CL. 2021. Reduced rank regression: Illustration of an important tool in the evaluation of dietary patterns and chronic disease risk. *J Nutr* 151:3269–3270, <https://doi.org/10.1093/jn/nxab331>.

Frankenfeld CL, Leslie TF, Menon NM. 2021. Longer time-to-treatment but better survival for colorectal cancer patients presumptively not diagnosed in a hospital. *Cancer Causes Control* 32:1185–1191, <https://doi.org/10.1007/s105552-021-01464-8>.

Cuellar AE, Adams LM, de Jonge E, Espina V, Espinoza L, **Frankenfeld CL**, Hines D, Kornienko O, Lawrence H, Rana ZH, Ramazani N, Short J, Waithaka EN, Wilson AN, Cheskin LJ. 2021. The Mason: Health Starts Here Prospective Cohort Study. *BMC Public Health* 21:897, <https://doi.org/10.1186/s12889-021-10969>.

Slavin M, Li H, Khatri M, **Frankenfeld C**. 2021. Dietary magnesium and migraine in adults: A cross-sectional analysis of the National Health and Nutrition Examination Survey, 2001–2004. *Headache* 61:276–286, <https://doi.org/10.1111/head.14065>.

Frankenfeld CL. 2021. Fecal bacteria as an addition to the lineup of objective dietary biomarkers. *J Nutr* 151:273–274, <https://doi.org/10.1093/jn/nxaa359>.

Frankenfeld CL, Wallace TC. 2020. Dietary patterns and nutritional status in relation to consumption of chickpeas and hummus in the U.S. population. *Appl Sci* 10:7341, <https://doi.org/10.3390/app10207341>.

Menon N, Leslie TF, **Frankenfeld CL**. 2020. Cancer capabilities of hospitals in the context of racial residential segregation. *Public Health* 182:95–101, <https://doi.org/10.1016/j.puhe.2020.02.004>.

Frankenfeld CL, Menon N, Leslie TF. 2020. Time-to-treatment and survival-time for colorectal tumors and diagnosing hospital cancer-related diagnostic and treatment capabilities in Georgia. *Cancer Epidemiol* 65:101684, <https://doi.org/10.1016/j.canep.2020.101684>.

Sattgast LH, Gallo S, **Frankenfeld CL**, Moshfegh AJ, Slavin M. 2020. Nutritional intake and bone health among adults with probable undiagnosed, untreated celiac disease: What We Eat in American and NHANES 2009–2014, *J Am Coll Nutr* 39:112–121, <https://doi.org/10.1080/07321574724.2019>.

Cleaveland C, **Frankenfeld CL**. 2020. “They kill people over nothing.” An exploratory study of Latina immigrant trauma. *J Social Services Res* 46:507–523, <https://doi.org/10.1080/01488376.2019.1602100>.

Frankenfeld CL, Wallace TC. 2020. Multivitamins and nutritional adequacy in middle-age to older Americans by obesity status. *J Dietary Suppl* 17:684–697, <https://doi.org/10.1080/19390211.2019.1645785>.

- Slavin M, Huilin L, **Frankenfeld CL**, Cheskin LJ. 2019. What is needed for evidence-based dietary recommendations for migraine: A call to action for nutrition and microbiome research. *Headache J Head Face Pain* 10:1566–1581, <https://doi.org/10.1111/head.13658>.
- Wallace TC, **Frankenfeld CL**, Frei B, Shah AV, Yu CR, van Klinken JW, Adeleke M. 2019. Multivitamin/multimineral supplement use is associated with increased micronutrient intakes and biomarkers and decreased prevalence of inadequacies and deficiencies in middle-aged and older adults in the United States. *J Nutr Gerontol Geriatr* 38:307–328, <https://doi.org/10.1080/21551197.2019.165.135>.
- Frankenfeld CL**, Leslie TF. 2019. Descriptive epidemiology of homicides in which victim and suspect are concordant or discordant on race or Hispanic ethnicity in the United States: Analysis of National Violent Death Reporting System (NVDRS) 2005-2015. *J Interpersonal Violence* 36:NP9693–NP9173, <https://doi.org/10.1177/0886260519861656>.
- Frankenfeld CL**, Leslie TF. 2019. County-level socioeconomic factors and residential racial, Hispanic, poverty, and unemployment segregation associated with drug overdose deaths in the United States, 2010-2015. *Ann Epidemiol* 35:12–19, <https://doi.org/10.1016/j.annepidem.2019.04.009>.
- Slavin M, Polasky A, Vieyra K, Best A, Durant L, **Frankenfeld C**. 2019. Single meal nutrient assessment by a self-administered, electronic exit survey compared with a multi-pass dietary interview in university undergraduate in an all-you-care-to-eat campus dining hall. *J Acad Nutr Diet* 119:739–749, <https://doi.org/10.1016/j.jand.2019.01.020>.
- Olson A, **Frankenfeld CL**, Wallace TC, Johnson J. 2018. Assessment of oats and milk on markers of cardiovascular disease: NHANES 1999-2014 datasets. *Nutr Today* 53:293–299, <https://doi.org/10.1097/NT.0000000000000308>.
- Frankenfeld CL**. 2017. Trends in employer postings for epidemiology jobs: An analysis of publichealthjobs.net data from 2003-2016. *Ann Epidemiol* 27:553–557, <https://doi.org/10.1016/j.annepidem.2017.08.007>.
- Stephenson CJ, Rossheim ME, **Frankenfeld CL**, Boncy J, Okech BO, von Fricken ME. 2017. Association between bedtime and malaria exposure in the Sud-Est and Ouest Departments of Haiti. *Acta Tropica* 176:188–191, <https://doi.org/10.1016/j.actatropica.2017.08.011>.
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- Frankenfeld CL**. 2017. Cardiometabolic risk and gut microbial phytoestrogen metabolite phenotypes. *Mol Nutr Food Res* 61, <https://doi.org/10.1002/mnfr.20159000>.
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- Wallace TC, Slavin M, **Frankenfeld CL**. 2016. Systematic review of anthocyanins and markers of cardiovascular disease. *Nutrients* 8:32 <https://doi.org/10.3390/nu8010032>.
- Frankenfeld CL**, Sikaroodi M, Lamb E, Shoemaker S, Gillevet PM. 2015. High-intensity sweetener consumption and gut microbiome content and predicted gene function in a cross-sectional study of adults in the United States. *Ann Epidemiol* 25:736–742. <https://doi.org/10.1016/j.annepidem.2015.06.083>.

- Frankenfeld CL**, Leslie TF, Makara MA. 2015. Diabetes, obesity, and recommended fruit and vegetable consumption in relation to food environment sub-types: a cross-sectional analysis of Behavioral Risk Factor Surveillance Systems, United States Census, and food establishment data. *BMC Public Health* 15:491. <https://doi.org/10.1186/s12889-015-1819-x>.
- Gewa CA, **Frankenfeld CL**, Slavin M, Omondi M. 2014. Fish-enhanced and soybean-enhanced supplemental snacks are acceptable among pregnant women in rural Kenya. *Food Nutr Bull* 35:S180–187. <https://doi.org/10.1177/15648265140354S303>
- Althuis MD, Weed DL, **Frankenfeld CL**. 2014. Evidence-based mapping of design heterogeneity prior to meta-analysis: a systematic review and evidence synthesis. *Syst Rev* 23:80 <https://doi.org/10.1186/2046-4053-3-80>.
- Frankenfeld CL**. 2014. Cardiometabolic risk factors are associated with high urinary enterolactone concentration, independent of urinary enterodiol concentration and dietary fiber intake in adults. *J Nutr* 144:1445–1453. <https://doi.org/10.3945/jn.114.190512>.
- Frankenfeld CL**, Atkinson C, Wähälä K, Lampe JW. 2014. Obesity prevalence in relation to gut microbial environments capable of producing equol or O-desmethylangolensin from the isoflavone daidzein. *Eur J Clin Nutr* 68:526–530. <https://doi.org/10.1038/ejcn.2014.23>
- VanMeters-Adams A, **Frankenfeld CL**, Bases J, Espina V, Liotta LA. 2014. [Students who demonstrate strong talent and interest in STEM are initially attracted to STEM through extracurricular experiences](https://doi.org/10.1187/cbe.13-11-0213). *CBE Life Sci Educ* 13:687–697. <https://doi.org/10.1187/cbe.13-11-0213>
- Frankenfeld CL**, Poudrier J, Waters N, Gillevet PM. 2014. Past residence outside of the United States is associated with diet quality in adults currently residing in the United States. *Am J Hum Biol* 26:64–72. <https://doi.org/10.1002/ajhb.22477>.
- Frankenfeld CL**. 2013. Relationship of obesity and high urinary enterolignan concentrations in 6806 children and adults: analysis of National Health and Nutrition Examination Survey data. *Eur J Clin Nutr* 67:887–889. <https://doi.org/10.1038/ejcn.2013.107>.
- Pierobon M, **Frankenfeld CL**. 2013. Obesity as a risk factor for triple-negative breast cancers: a systematic review and meta-analysis. *Breast Cancer Res Treat* 137:307–314. <https://doi.org/10.1007/s10549-012-2339-3>
- Leslie TF, **Frankenfeld CL**, Makara MA. 2012. The spatial food environment of the DC Metropolitan area: clustering, co-location, and categorical differentiation. *Appl Geography* 11:300–307. <https://doi.org/10.1016/j.apgeog.2012.07.008>.
- Frankenfeld CL**, Poudrier JK, Waters NM, Gillevet PM, Xu Y. 2012. Dietary intake measured from a self-administered, online 24-hour recall system compared with 4-day diet records in an adult US population. *J Acad Nutr Diet* 112:164–167. <https://doi.org/10.1016/j.jand.2012.06.003>.
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- Frankenfeld CL**, Lampe JW, Shannon J, Gao DL, Li W, Ray RM, Chen C, King IB, Thomas DB. 2012. Fruit and vegetables intakes in relation to plasma nutrient concentrations in women in Shanghai, China. *Public Health Nutr* 15:167–176. <https://doi.org/10.1017/S1368980011001029>.
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- Frankenfeld CL**, McTiernan A, Thomas WK, LaCroix K, McVarish L, Holt VL, Schwartz SM, Lampe JW. 2006. Postmenopausal bone mineral density in relation to soy isoflavone-metabolizing phenotypes. *Maturitas* 53:315–324. <https://doi.org/10.1016/j.maturitas.2005.05.016>.
- Frankenfeld CL**, Atkinson C, Thomas WK, Gonzalez A, Jokela T, Wähälä K, Schwartz SM, Li SS, Lampe JW. 2005. High concordance of daidzein-metabolizing phenotypes in individuals measured 1 to 3 years apart. *Br J Nutr* 94:873–876. <https://doi.org/10.1079/bjn20051565>.
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- Frankenfeld CL**, McTiernan A, Aiello EJ, Thomas WK, LaCroix K, Schramm J, Schwartz SM, Holt VL, Lampe JW. 2004. Mammographic density in relation to daidzein-metabolizing phenotypes in overweight, postmenopausal women. *Cancer Epidemiol Biomarkers Prev* 13:1156–1162.

Frankenfeld CL, McTiernan A, Tworoger SS, Atkinson C, Thomas WK, Stanczyk FZ, Marcovina SM, Weigle DS, Weiss NS, Holt VL, Schwartz SM, Lampe JW. 2004. Serum steroid hormones, sex hormone-binding globulin concentrations, and urinary hydroxylated estrogen metabolites in post-menopausal women in relation to daidzein-metabolizing phenotypes. *J Steroid Biochem Mol Biol* 88:399–408. <https://doi.org/10.1016/j.jsbmb.2004.01.006>.

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Frankenfeld CL, Patterson RE, Kalthorn TF, Skor HE, Howald WN, Lampe JW. 2002. Validation of a soy food frequency questionnaire with plasma concentrations of isoflavones in US adults. *J Am Diet Assoc* 102:1407–1413. [https://doi.org/10.1016/s0002-8223\(02\)90313-5](https://doi.org/10.1016/s0002-8223(02)90313-5).

CONFERENCE PRESENTATIONS

Trudo SP, **Frankenfeld CL**. Trends and personal characteristics associated with apiaceous vegetable intake in the US population: National Health and Nutrition Examination Survey 2003-2018. Nutrition Annual Meeting, 2023.

Pendala A, **Frankenfeld C**, Greenfield M, Ozmeral A, Weinert R, Pendala V, et al. Dietary differences between headache days and normal days in participants with migraines. Nutrition Annual Meeting, 2023.

Greenfield M, **Frankenfeld C**, Pendala A, Ozmeral A, Weinert R, Pendala V, et al. Study protocol: A unique longitudinal case-crossover design to gather timely data on migraine & diet relationship. Nutrition Annual Meeting, 2023.

Slavin M, **Frankenfeld C**, Pendala A, Ozmeral A, Greenfield M, Weinert R, et al. Evaluating a case-crossover design to improve dietary data collection in migraine studies. American Headache Society Annual Scientific Meeting, 2023.

Slavin M, **Frankenfeld C**, Seng E. Use of acid reducers and odds of migraine in the National Health and Nutrition Examination. Poster presented to American Headache Society, 2022.

Frankenfeld CL, Cleaveland C. Among working and not working Latinos in the United States, food insufficiency and difficulty with expenses associated with adverse mental health during the COVID-19 pandemic. Poster presented to Society for Epidemiologic Research, 2022 (poster session award winner).

Frankenfeld CL, Cleaveland C. Food insufficiency and difficulty with expenses strongly associated with adverse mental health, regardless of poverty status and location, among Latinos in the United States during the COVID-19 pandemic. Poster presented to Society for Epidemiologic Research, 2022.

Khoshal B, Karon S, Rossheim ME, Cheskin LJ, Trangenstein PJ, **Frankenfeld CL**, Ramezani N, Cuellar AE. Substance use and firearm access among college freshmen. Poster presented to Society for Epidemiologic Research, 2022.

Khoshhal B, Karon S, Rossheim ME, Cheskin LJ, Trangenstein, PJ, **Frankenfeld CL**, Ramezani N, Cuellar AE. Substance use and rapid access to firearm among college freshmen. Poster presented to Virginia Public Health Association, 2022.

Patel P, Jiang X, Nicholson G, **Frankenfeld C**, Iglesias-Rodriguez, Fryzek J, Su J. Medically attended anxiety or depression is increased among newly diagnosed patients with cold agglutinin disease (CAD). Virtual presentation to American Society of Hematology, 2020.

Lindley LL, Fleming LC, **Frankenfeld CL**. HIV sexual risk factors among US women who engaged in heterosexual contact in the past year: Differences in risk by sexual identity and sexual orientation discordance. Virtual presentation to STD Prevention, 2020.

Wallace TC, **Frankenfeld CL**. Multivitamin use is associated with increased micronutrient intake and biomarkers and decreased prevalence of inadequacies in middle-aged and older adults. Virtual presentation to Nutrition 2020.

Wallace TC, **Frankenfeld CL**. Multivitamins and nutritional adequacy in middle-aged to older Americans by obesity status. Poster presentation to Federation of European Nutrition Societies, 2019.

Frankenfeld CL, Leslie TF, Menon N. Racial disparities in colorectal cancer time-to-treatment in relation to residential segregation of the diagnostic hospital. Poster presentation to American Public Health Association, 2019.

Frankenfeld CL, Menon N, Leslie TF. Racial disparities in colorectal cancer time-to-surgery and survival time associated with diagnosing hospital cancer-related diagnostic and treatment capabilities in Georgia. Presentation to American Public Health Association, 2019.

Olson A, Vieyra K, Polasky A, Best A, Durant L, **Frankenfeld C**, Slavin M. Nutritional quality of undergraduate student meals in an all-you-care-to-eat campus dining facility. Poster presentation to Nutrition, 2019.

Frankenfeld CL, Leslie TF. County-level socioeconomic factors and residential racial, Hispanic, poverty, and unemployment segregation associated with drug overdose deaths in the United States, 2010-2015. Poster presentation to American Association of Geographers, 2019.

Frankenfeld CL, Hakes J, Leslie TF. All-cancer and cancer-specific mortality is associated with black race segregation in the United States: Mortality Disparities in American Communities data. American Association for Cancer Research: Poster presentation to The Science of Cancer Health Disparities, 2018.

Frankenfeld CL, Leslie TF. Using NVDRS data to examine person-level and geographic-level characteristics associated with racial and ethnic victim-suspect discordance in US homicide deaths. Presentation to Safe States Alliance, 2018.

Hogan K, Andrina B, Fujii K, Severson D, Beatty B, **Frankenfeld CL**. Determining differences in indeterminate QuantiFERON-TB Gold In-Tube Test (QFT) results by trimester in pregnant women. Poster presentation to Inova Nursing and Evidence Based Practice Symposium, 2018.

Frankenfeld CL, Hakes J, Leslie TF. All-cause mortality is associated with racial diversity, and black race composition and segregation: Mortality Disparities in American Communities data. Poster presentation to American College of Epidemiology, 2018.

Frankenfeld CL, Hakes J, Leslie TF. Cardiovascular disease mortality is associated with racial diversity, and black race composition and segregation: Mortality Disparities in American Communities data. Poster presentation to American College of Epidemiology, 2018.

Wallace TC, **Frankenfeld CL**. Dietary protein intake above the current RDA and bone health: A systematic review and meta-analysis. Poster presentation to World Congress on Osteoporosis, Osteoarthritis, and Musculoskeletal Diseases, 2018. (poster competition award winner)

Slavin M, Gallo S, Charnock E, **Frankenfeld CL**. Dietary and total magnesium intake in a nationally representative sample of adults with and without severe headache or migraine. Poster presentation to American Headache Society Annual Meeting, 2018.

Stephenson CJ, Rossheim ME, **Frankenfeld CL**, Boncy J, Okech BO, von Fricken ME. Association between bedtime and malaria exposure in the Sud-Est and Ouest Departments of Haiti. Poster presentation to American Public Health Association, 2017.

INVITED PRESENTATIONS

Frankenfeld CL. Biostatistical approaches in gut microbiome research. Presentation for American Society of Nutrition-Institute for the Advancement of Food and Nutrition Science Collaborative Session “Sample Collection, Preservation, and Data Analysis in Gut Microbiome Research: Current Methods and Potential Impact on Results,” October 13, 2022.

Frankenfeld CL. Dietary data processing and analysis: Considerations for microbiome-diet research. Best Practices for Characterization of Diet in Gut Microbiome Research: Focus on Dietary Assessment, Gut Microbiome Committee, ILSI North America, August 20, 2020.

Frankenfeld CL. Two perspectives on the relationship between the human gut microbiome and diet, Fred Hutchinson Cancer Research Center Nutrition and Physical Activity Affinity Group Seminar, May 23, 2019.

Frankenfeld CL. Dietary factors associated with the human gut microbiome and opportunities for environmental health. University of Washington Department of Environmental and Occupational Health Sciences, Seminar, May 13, 2019.

Frankenfeld CL. Residential segregation and health disparities. George Mason University Health Administration Policy/Center for Health Policy, Research, and Ethics Seminar, November 28, 2018.

Frankenfeld CL. Intersection of epidemiology and geography: Residential segregation and health disparities. George Mason University Geography and Geoinformation Science Colloquium, October 10, 2018.

Cleaveland C, **Frankenfeld CL.** “They took all my clothes and made walk naked for two days I couldn’t escape”: Latina immigrant experiences of trauma. Centreville Immigration Forum, Centreville, VA 2018.

Frankenfeld CL. Human gut microbiome and health. University of Maryland, Maryland Institute of Applied Environmental Health, May 5, 2017.

Frankenfeld CL. Obesity and cardiometabolic risk factors in relation to gut microbial metabolites. University of Iowa, Department of Epidemiology Seminar, December 4, 2014.

Frankenfeld CL. Phytoestrogen metabolism as a marker of gut microbial environment: Implications for disease risk. National Cancer Institute Cancer Prevention Fellowship Program Colloquia, Rockville, MD, October 24, 2012.

Frankenfeld CL. Person, place, and time: Lifecourse associations of diet, environment, and host microbiome. George Mason University, Global and Community Health Seminar Series, Fairfax, VA, April 17, 2012.

Frankenfeld CL. Does equol producing capacity modify the effect of soy isoflavone exposure for menopause-related outcomes? Is it the equol or not? NAMS/Utian Translational Science Symposium on Soy and Soy Isoflavones, Chicago, IL, October 10, 2010.

Frankenfeld CL. Got bugs? Interindividual variability of intestinal bacteria and breast cancer risk factors. Breast Cancer Series Seminar, Seattle Cancer Care Alliance, Seattle, WA, October 10, 2003.

PROTOCOL REGISTRATIONS

Bylsma L, Fryzek J, Movva N, **Frankenfeld C**, Hooda N, Pundole X, et al. 2022. Systematic literature review of the prevalence and prognostic value of delta-like ligand 3 protein expression in small cell lung cancer. PROSPERO 2022 CRD42022351119