
TATSUKI KOYAMA

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EDUCATION

1998 Bachelor of Arts in Statistics
 University of California at Berkeley, Berkeley, CA

2000 Master of Arts in Statistics
 University of Pittsburgh, Pittsburgh, PA

2003 Doctor of Philosophy in Statistics
 University of Pittsburgh, Pittsburgh, PA

Doctoral Dissertation

 Title A framework for design of two-stage adaptive procedures

 Advisors Allan R. Sampson, Ph.D. (co-chair), Leon J. Gleser, Ph.D. (co-chair)

ACADEMIC APPOINTMENTS

2003 - 2011 Assistant Professor

2011 - 2013 Research Associate Professor

2013 - 2022 Associate Professor

2022 - present Professor

 Department of Biostatistics, Vanderbilt University School of Medicine

 Vanderbilt Center for Quantitative Sciences

PROFESSIONAL ORGANIZATIONS

1998 - present American Statistical Association
 Middle Tennessee Chapter
 Chapter representative (2005-2006), Treasurer (2006-2021)

2003 - present The International Biometric Society

2006 - 2013 The Biometric Society of Japan

PROFESSIONAL ACTIVITIES

A. Study Section Review

- 2008 NIH Study Section Review Panel. "Tumor stem cells in cancer biology, prevention, and therapy (P01)"
- 2009 NIH Study Section Review Panel. "Measures and determinants of smokeless tobacco use, prevention, and cessation (R01)"
- 2010 NIH Study Section Review Panel. "Drug discovery, chemoprevention, and targeted therapy (P01)"
- 2013 Cancer Research Program Review Panel. The Department of Defense Congressionally Directed Medical Research Programs.
- 2015 Florida Department of Health Biomedical Research Programs Review Panel.
- 2015 Focused Program Review Panel. The Department of Defense Congressionally Directed Medical Research Programs.
- 2016 ASCO Grants Selection Committee Young Investigators Award Review Panel.
- 2016 Cancer Research Program Review Panels. The Department of Defense Congressionally Directed Medical Research Programs.
- 2017 ASCO Grants Selection Committee. Career Development Award Review Panel.
- 2017 Focused Program Awards Review Panels. The Department of Defense Congressionally Directed Medical Research Programs.
- 2018 ASCO Grants Selection Committee. Career Development Award Review Panel.
- 2018 Florida Department of Health Biomedical Research Programs Review Panel.
- 2019 Cancer Research Program. The Department of Defense Congressionally Directed Medical Research Programs.
- 2020 Cancer Research Program Review Panel. The Department of Defense Congressionally Directed Medical Research Programs.
- 2022 Broad Agency Announcement (MRDC-BAA) within the Department of Defense Congressionally Directed Medical Research Programs (CDMRP).
- 2023 Traumatic Brain Injury Psychological Health Research Program (TBIPHRP) for the Department of Defense Congressionally Directed Medical Research Programs (CDMRP).
- 2024 ZonMw programme Rational Pharmacotherapy 13th Open Call for the Dutch Organisation for knowledge and innovation in health, healthcare and well-being.

B. Journal Review

The Journal of Urology (Board of Statisticians)
 PLOS ONE (Statistical Advisory Board)
 Japanese Journal of Statistics and Data Science (Associate Editor)
 Science: Translational Medicine
 JAMA Oncology
 Nature Cancer

Nature Communications
Statistics in Medicine
Cancer
Cancers
Cancer Prevention Research
Clinical Cancer Research
Journal of Clinical Oncology
PLOS Medicine
American Statistician
Biometrical Journal
Bioinformatics
Journal of Applied Statistics
Journal of Biopharmaceutical Statistics
Journal of Statistical Computation and Simulation
Journal of Statistical Planning and Inference
Kidney International
Journal of Nuclear Medicine
International Journal of Environmental Research and Public Health
Expert Opinion on Drug Safety
Environmental Research and Public Health
Journal of Biological Chemistry
Kidney Research and Clinical Practice
Cell Reports Medicine
Advances in Medical Science
Breast Cancer Research

C. Awards and Honors

1996	Phi Theta Kappa
1996	Dean's List, University of California at Berkeley
1998	W. Homan Scholarship. University of California at Berkeley
2001	Best Teaching Assistant Award. Department of Statistics, University of Pittsburgh
2002	Best Senior Graduate Student Award. Department of Statistics, University of Pittsburgh
2002 - 2003	Andrew Mellon Pre-doctoral Fellowship. University of Pittsburgh
2003	Outstanding Graduate Student Award. American Statistical Association, Pittsburgh Chapter
2014, 2017	The Patrick G. Arbogast Collaborative Publication Award, Department of Biostatistics, Vanderbilt University School of Medicine

D. Intramural Services

University of Pittsburgh

2000	Statistics Computer Lab Coordinator
2000 - 2002	Statistical Consultant, Center for Statistics

Vanderbilt University Medical Center

2003 - present	Director of Biostatistics Core, Vanderbilt Digestive Disease Research Center
2003 - 2017	Member, Ph.D. Search Committee, Department of Biostatistics
2007	Reviewer, Vanderbilt Committee for Internal Pre-review of Grant Application
2009 - present	Reviewer, Scientific Review Committee, Vanderbilt-Ingram Cancer Center
2009 - 2017	Organizer, Cancer Biostatistics Workshop [2009-2011], Center for Quantitative Sciences Workshop [2011 - 2017]
2010 - 2011	Co-chair, Adaptive Clinical Trials Working Group, Center for Quantitative Sciences / Cancer Biostatistics Center
2011 - present	Executive committee member, Center for Qualitative Sciences.
2014 - present	Member, Graduate Student Admission Committee, Department of Biostatistics
2017 - present	Member, Limited Submission Opportunity Review Committee, VUMC
2018 - present	Member, Resource Allocation Committee, Department of Biostatistics
2018 - 2021	Member, Staff Promotion Committee, Department of Biostatistics
2019 - present	Member, Faculty Search Committee, Department of Biostatistics

TEACHING ACTIVITIES

A. Teaching Positions

1998 - 2002	Teaching Fellow / Teaching Assistant, Department of Statistics, University of Pittsburgh
2000	Lecturer, Department of Statistics, University of Pittsburgh
2009 - 2017	Organizer, Cancer Biostatistics Workshop, Cancer Biostatistics Center, Vanderbilt-Ingram Cancer Center; CQS Workshop, Center for Quantitative Sciences, Vanderbilt University School of Medicine.

B. Graduate Course

2012 - 2020	BIOS 6321: Clinical Trials and Experimental Designs (3 credits). Developed the course.
2020 - present	PUBH 5502: Biostatistics I (MPH program, 3 credits). Substantially updated the course materials.

C. Extramural Lectures

Tutorial session

1. Adaptive and flexible designs in clinical trials. *The 2006 Japanese Joint Statistical Meetings*. Sendai, Japan. September 5, 2006 (3 hour tutorial).

Short courses

2. Adaptive and flexible designs in clinical trials. *Japan Clinical Research Division*, Lilly Research Laboratories Japan. Kobe, Japan. March 1, 2007 (2 hour course).
3. Adaptive designs in clinical trials. *Biostatistics Summer School*. Osaka University (Biostatistics and Epidemiology), Osaka, Japan. July 9-10, 2007 (9 hour course).
4. Advanced clinical trials in the US. *Biostatistics Executive Seminar 2011*. Statcom Co. Ltd., Tokyo, Japan. June 20, 2011 (2 hour course).
5. Frequentist adaptive design for phase II and III clinical trials. *Shionogi Research Seminar*. Shionogi & Co. Ltd., Osaka, Japan. August 24, 2012 (2 hour course).
6. Clinical trials. *Special Summer Course*. Osaka University (Biostatistics and Epidemiology), Osaka, Japan. July 6-10, 2015 (20 hour course).
7. Phase III clinical trials. *Medical Statistics*. Osaka University (Biostatistics and Epidemiology), Osaka, Japan. July 19-22, 2016 (9 hour course).
8. Selected topics in phase II and III clinical trials. Osaka City University (Medical Statistics), Osaka, Japan. (9 hour course)
 July 18-20, 2017
 August 16-17, 2018
 July 8-10, 2019
 January 11-14, 2021
 November 9-17, 2021

Invited lectures

9. Meta analysis, interim analysis and data safety monitoring boards. *Clinical Trials and Research*, Masters of Science in Clinical Investigation (MSCI) program, Meharry Medical College, Nashville, TN. November 9 and 23, 2010 (2.5 hour course).
10. Randomization in clinical trials. *Nashville Chapter, Society of Clinical Research Associates*. October 24, 2013.
11. Study design and power calculations. *Mouse Kidney Injury Workshop*. Vanderbilt University O'Brien Kidney Center. August 2022; August 2023.

D. Intramural Lectures

Short Courses

1. Biostatistics I. *Center for Quantitative Sciences Summer Institute*. Center for Quantitative Sciences. August 3-7, 2015; August 1-5, 2016; August 7-11, 2017; August 9-13, 2021. (15 hour lecture)

Invited Lectures

2. Introduction to statistics in R. *Seminar Series in Biostatistics*. Department of Biostatistics. 2004.
3. Probabilities and statistics in medicine. *Guest lecturer for Department of Preventive Medicines' required course*. 2004–2007.
4. Power and sample size: A practical point of view. *Guest lecture for MSCI course, Biostatistics I*. 2004.
5. Tools for formal statistical inference. *Statistical Thinking in Biomedical Research*. Department of Biostatistics. 2004.
6. How to reduce sample size and control type I error rate by implementing two-stage designs. *GCRC Research Skills Workshop Series*. January, 2005.
7. Problems with using Excel for statistics. *GCRC Research Skills Workshop Series*. May, 2005.
8. Statistical methods in biomarker discovery. *Clinical Proteomics*. Vanderbilt University School of Medicine. 2008–2009.
9. Adaptive phase II clinical trials: Rigorous statistics and flexible science. *2008 Cancer Biostatistics Workshop*. Cancer Biostatistics Center. April, 2008.
10. Statistical methods in biomarker discovery. *2009 Cancer Biostatistics Workshop*. Cancer Biostatistics Center. April, 2009.
11. Technical aspects of interim monitoring in clinical trials. *GCRC Research Skills Workshop Series*. July, 2009.
12. Principles of presenting data: A statistical point of view. *Guest lecture for a freshman seminar in the College of Engineering, "Visual Display of Quantitative Information"*. November, 2009.
13. Some aspects of statistical methods for biomarker discovery. *Continuing Education for Masters Biostatisticians*. Department of Biostatistics. December, 2009.
14. Statistical methods for biomarker discovery. *Statistics and Methodology Core Training Seminar*. Vanderbilt Kennedy Center. January, 2010.
15. Interim monitoring in clinical trials. *GCRC Research Skills Workshop Series*. September, 2010.
16. Topics in probability and statistics. *Guest lecture for a freshman course in School for Science and Math at Vanderbilt*. September, 2010.
17. Rigorous statistics for simple experiments: Basic science from a statistician's point of view. *The Vanderbilt Digestive Disease Research Center Seminar Series*. September, 2010.
18. Clinical trial series, session II: Randomization. *GCRC Research Skills Workshop Series*. November, 2011.
19. Clinical trial series, session III: Interim analysis. *GCRC Research Skills Workshop Series*. December, 2011.

20. Randomization. *GCRC Research Skills Workshop Series*. August, 2012.
21. Flexible clinical trials. *GCRC Research Skills Workshop Series*. May, 2013.
22. Phase I clinical trials. *GCRC Research Skills Workshop Series*. November, 2013.
23. Randomization. *GCRC Research Skills Workshop Series*. November, 2013.
24. Clinical trials. *Introduction to Clinical and Translational Research*. January, 2015. (2 one-hour lectures)
25. Problems with using Excel for statistics. *GCRC Research Skills Workshop Series*. April, 2015.
26. Analytic challenges of pragmatic trials. *Two-hour lecture for V-POCKET seminar series*. February, 2015.
27. Phase I clinical trials. *GCRC Research Skills Workshop Series*. August, 2015.
28. Statistics for basic sciences. *DDRC Career Development Workshop*. 2015, 2016, 2018, 2020.
29. Statistics 101. *Radiation Oncology Research Group*. June, 2016.
30. Topics in regression analysis *GCRC Research Skills Workshop Series*. March, 2017
31. Phase I clinical trials. *Clinical Pharmacology Teaching Conferences*. April, 2017
32. Multiplicity in clinical trials. *GCRC Research Skills Workshop Series*. September, 2018
33. Phase II and III clinical trials. *Clinical Pharmacology Fellow Lecture*. January, 2020
34. Topics in regression analysis *GCRC Research Skills Workshop Series*. May, 2020
35. Topics in regression analysis: interaction vs subgroups; baseline adjustment vs difference. *VD-DRC Academy of Investigators Workshop*. November, 2020
36. Dose-finding clinical trials in cancer. 3+3 and beyond (but not much). *Vanderbilt Center for Health Services Research Biostatistics Seminar*. November, 2020
37. Regression analysis: Interactions and subgroups and other topics. *Clinical Pharmacology Fellow Lecture*. April, 2021
38. Topics in regression analysis *GCRC Research Skills Workshop Series*. October, 2021
39. Randomization / Multiplicity control *Clinical Pharmacology Fellow Lecture*. November, 2021
40. Phase II clinical trials / Survival analysis *Journal club for Hematology/Oncology Fellows*. November, 2021.
41. Phase I clinical trials. *Clinical Pharmacology Teaching Conferences*. November, 2022
42. Analysis of variance, Regression analysis, Interaction and subgroups. *DDRC Academy of Investigators Program*. November, 2022.

43. Phase III clinical trials / Survival analysis. *Journal club for Hematology/Oncology Fellows*. November, 2022.
44. Phase 1/2 and Phase 2/3 Clinical Trials. *Clinical Pharmacology T32 Fellow Conference*.
45. Non-inferiority trials in oncology. *Vanderbilt Radiation Oncology Resident Research Retreat*.

E. Research Supervision

Department of Biostatistics, Vanderbilt University School of Medicine.

Mingsheng Guo, PhD. Bioinformatician I.

Sharon Phillips, MSPH. Assistant in Biostatistics.

Elizabeth Koehler, MS. Biostatistician III.

Pengcheng Lu, MS. Biostatistician III.

Zhiguo Zhao, MS. Biostatistician IV.

JoAnn Alvarez, MS. Biostatistician III.

Kang-Hsien Fan, MS. Biostatistician III.

Lan Cui, MS. Research Assistant I.

Liping Du, PhD. Bioinformatician III.

Li-Ching Huang, PhD. Staff Scientist.

Julius Kirui, MS. Intern.

Rachel J Baldwin, MS. Intern.

Corey J Horton, MS. Intern.

Huang Yi, MS. Biostatistician II.

Yufan Chen, MS. Biostatistician II.

Lili Sun, PhD. Senior Biostatistician.

Kevin Zhang, MS. Biostatistician.

Aaron Lee, MS. Senior Biostatistician.

F. Graduate Students

Department of Biostatistics, Vanderbilt University School of Medicine.

Emily N Peterson. MS thesis "Assessment of propensity score performance in small samples". (August 2015)

Molly A Olson. MS thesis "A comparison of approaches for unplanned sample size changes in phase II clinical trials". (May 2017)

Alese Halvorson. MS thesis "A statistical critique of normalization methods in basic science research". (December 2019)

Justin Jacobs. MS thesis "A simulated exploration of alternatives to standard expansion cohorts in phase I trials". (December 2022)

PUBLICATIONS AND PRESENTATIONS

A. Peer Reviewed Publication

1. Vis JB, Wang C, Nguyen KV, Sun L, Jia B, Sherry AD, Alford-Holloway MN, Balbach ML, **Koyama T**, Chakravarthy AB, and Rafat M. Body composition as a novel biomarker of recurrence risk in patients with triple-negative breast cancer. *Res Sq*, 2024. PMID: 39764096. PMCID: PMC11702791.
2. Lopez AA, Awamlh BAHA, Huang LC, Zhao Z, **Koyama T**, Hoffman KE, Wallis CJD, Cavanaugh K, Talwar R, Morgans AK, Goodman M, Hamilton AS, Wu XC, Li J, O'Neil BB, Penson DF, and Barocas DA. Patient-reported functional outcomes and treatment-related regret in hispanic and spanish-speaking men following prostate cancer treatment. *Urol Oncol*, 2024. PMID: 39690079.
3. Nguyen DD, Barocas DA, Zhao Z, Huang LC, **Koyama T**, Al Hussein Ai Awamlh B, Penson DF, Morgans AK, Goodman M, Hamilton AS, Wu XC, Li J, Paddock LE, Stroup AM, O'Neil BB, Hoffman KE, and Wallis CJD. Association between smoking and prostate cancer survivors' long-term quality of life and function: An analysis of the CEASAR (comparative effectiveness analysis of surgery and radiation) study. *J Cancer Surviv*, 2024. PMID: 39400687.
4. **Koyama T**, Zhao Z, Balmes JR, Calfee CS, Matthay MA, Reilly JP, Porteous MK, Diamond JM, Christie JD, Cantu E, and Ware LB. Long-term air pollution exposure and the risk of primary graft dysfunction after lung transplantation. *J Heart Lung Transplant*, 2024. PMID: 39019353.
5. Barocas DA, Al Hussein Al Awamlh B, and **Koyama T**. Outcomes following localized prostate cancer treatment-reply. *JAMA*, 331(20):1770–1771, 2024. PMID: 38683621.
6. Al Hussein Al Awamlh B, Wallis CJD, Penson DF, Huang LC, Zhao Z, Conwill R, Talwar R, Morgans AK, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, O'Neil BB, **Koyama T**, Hoffman KE, and Barocas DA. Functional outcomes after localized prostate cancer treatment. *JAMA*, 331(4):302–317, 2024. PMID: 38261043. PMCID: PMC10807259.
7. Lentz RJ, Frederick-Dyer K, Planz VB, **Koyama T**, Aboudara MC, Swanner B, Roller L, Low SW, Salmon C, Avasarala SK, Hoopman TC, Wahidi MM, Mahmood K, Cheng GZ, Katsis JM, Kurman JS, D'Haese PF, Johnson J, Grogan EL, Walston C, Yarmus L, Silvestri GA, Rickman OB, Rahman NM, and Maldonado F. Navigational bronchoscopy versus computed tomography-guided transthoracic needle biopsy for the diagnosis of indeterminate lung nodules: Protocol and rationale for the Veritas multicenter randomized trial. *medRxiv*, 2023. PMID: 38045245. PMCID: PMC10690353.
8. Weber SJ, Mulvaney SA, Faiola A, Brown M, **Koyama T**, Sun L, Goggans SL, and Hull PC. Commercially available mobile apps with family behavioral goal setting and tracking for parents: Review and quality evaluation. *JMIR Pediatr Parent*, 6:e41779, 2023. PMID: 37831486. PMCID: PMC10612003.
9. Jacobse J, Aziz Z, Sun L, Chaparro J, Pilat JM, Kwag A, Buendia M, Wimbiscus M, Nasu M, Saito T, Mine S, Orita H, Revetta F, Short SP, Kay Washington M, Hiremath G, Gibson MK, Coburn LA, **Koyama T**, Goettel JA, Williams CS, and Choksi YA. Eosinophils exert antitumorigenic effects

- in the development of esophageal squamous cell carcinoma. *Cell Mol Gastroenterol Hepatol*, 16(6):961–983, 2023. PMID: 37574015. PMCID: PMC10630122.
10. Takahashi K, Yamamoto K, Kuchiba A, Shintani A, and **Koyama T**. Hypothesis testing procedure for binary and multi-class F_1 -scores in the paired design. *Stat Med*, 42(23):4177–4192, 2023. PMID: 37527903. PMCID: PMC11483486.
 11. Reilly JP, Zhao Z, Shashaty MGS, **Koyama T**, Jones TK, Anderson BJ, Ittner CA, Dunn T, Miano TA, Oniyide O, Balmes JR, Matthay MA, Calfee CS, Christie JD, Meyer NJ, and Ware LB. Exposure to ambient air pollutants and acute respiratory distress syndrome risk in sepsis. *Intensive Care Med*, 49(8):957–965, 2023. PMID: 37470831. PMCID: PMC10561716.
 12. Jacobse J, Aziz Z, Sun L, Chaparro J, Pilat JM, Kwag A, Buendia M, Wimbiscus M, Nasu M, Saito T, Mine S, Orita H, Revetta F, Short SP, Washington MK, Hiremath G, Gibson MK, Coburn L, **Koyama T**, Goettel JA, Williams CS, and Choksi YA. Eosinophils exert direct and indirect anti-tumorigenic effects in the development of esophageal squamous cell carcinoma. *bioRxiv*, 2023. PMID: 37333285. PMCID: PMC10274643.
 13. Nordness MF, Maiga AW, Wilson LD, **Koyama T**, Rivera EL, Rakhit S, de Riesthal M, Motuzas CL, Cook MR, Gupta DK, Jackson JC, Williams Roberson S, Meurer WJ, Lewis RJ, Manley GT, Pandharipande PP, and Patel MB. Effect of propranolol and clonidine after severe traumatic brain injury: A pilot randomized clinical trial. *Crit Care*, 27(1):228, 2023. PMID: 37296432. PMCID: PMC10251526.
 14. Kavoussi NL, Da Silva A, Floyd C, McCoy A, **Koyama T**, and Hsi RS. Feasibility of stone recurrence risk stratification using the recurrence of kidney stone (ROKs) nomogram. *Urolithiasis*, 51(1):73, 2023. PMID: 37067633.
 15. Hiremath G, Sun L, Collins MH, Bonis PA, Arva NC, Capocelli KE, Chehade M, Davis CM, Falk GW, Gonsalves N, Gupta SK, Hirano I, Leung J, Khoury P, Mukkada VA, Martin LJ, Spergel JM, Wechsler JB, Yang GY, Aceves SS, Furuta GT, Rothenberg ME, **Koyama T**, and Dellon ES. Esophageal epithelium and lamina propria are unevenly involved in eosinophilic esophagitis. *Clin Gastroenterol Hepatol*, 21(11):2807–2816000, 2023. PMID: 36967100. PMCID: PMC10518022.
 16. Samora NL, Wallis CJD, Huang LC, Tallman JE, Zhao Z, Hoffman K, Morgans A, Cooperberg M, Goodman M, Greenfield S, Hamilton AS, Hashibe M, Kaplan S, O’Neil B, Paddock LE, Stroup A, Wu XC, **Koyama T**, Penson DF, and Barocas DA. Association between body mass index and localized prostate cancer management and disease-specific quality of life. *BJUI Compass*, 4(2):223–233, 2023. PMID: 36816144. PMCID: PMC9931544.
 17. Hsi RS, **Koyama T**, Silver HJ, and Goldfarb DS. Urinary supersaturation in a randomized trial among individuals with nephrolithiasis comparing empiric versus selective therapy (urine): Design and rationale of a clinical trial. *Urolithiasis*, 51(1):28, 2023. PMID: 36598705. PMCID: PMC9836785.
 18. Tallman JE, Wallis CJD, Zhao Z, Huang LC, Penson DF, **Koyama T**, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O’Neil BB, Kaplan SH, Greenfield

- S, Hoffman KE, and Barocas DA. Prostate volume, baseline urinary function, and their association with treatment choice and post-treatment urinary function in men treated for localized prostate cancer. *Prostate Cancer Prostatic Dis*, 26(4):787–794, 2023. PMID: 36482081. PMCID: PMC11229171.
19. Hsi RS, Hollingsworth JM, and **Koyama T**. Re: Lazaros Tselves, Robert Geraghty, Riccardo Lombardo, et al. Duration of follow-up and timing of discharge from imaging follow-up, in adult patients with urolithiasis after surgical or medical intervention: A systematic review and meta-analysis from the european association of urology guideline panel on urolithiasis. *eur urol focus*. in press. <https://doi.org/10.1016/j.euf.2022.06.016>. *Eur Urol Focus*, 9(2):383, 2023. PMID: 36182575.
 20. Werk RS, **Koyama T**, Sun L, Wolden S, Kelly KM, Constine LS, Schwartz CL, and Friedman DL. Post-traumatic stress symptoms in adolescent hodgkin lymphoma survivors: A report from children's oncology group ahod0031. *J Adolesc Young Adult Oncol*, 12(3):359–365, 2023. PMID: 36094417. PMCID: PMC10282797.
 21. Tallman JE, Wallis CJD, Huang LC, Zhao Z, Penson DF, **Koyama T**, Conwill R, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Barocas DA, and Hoffman KE. Association between adherence to radiation therapy quality metrics and patient reported outcomes in prostate cancer. *Prostate Cancer Prostatic Dis*, 26(1):80–87, 2023. PMID: 35217831. PMCID: PMC11289781.
 22. Chang RS, Shing JZ, Erves JC, Du L, **Koyama T**, Deppen S, Rentuza AB, McAfee C, Stroebel C, Cates J, Harnack L, Andrews D, Bramblett R, and Hull PC. Measurement of provider fidelity to immunization guidelines: A mixed- methods study on the feasibility of documenting patient refusals of the human papillomavirus vaccine. *BMC Med Inform Decis Mak*, 22(1):339, 2022. PMID: 36550466. PMCID: PMC9783975.
 23. De B, Pasalic D, Barocas DA, Wallis CJD, Huang LC, Zhao Z, **Koyama T**, Tang C, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Penson DF, and Hoffman KE. Reply by authors. *J Urol*, 208(6):1239, 2022. PMID: 36349918.
 24. Joyce DD, Wallis CJD, Huang LC, Hoffman KE, Zhao Z, **Koyama T**, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Penson DF, and Barocas DA. The association between financial toxicity and treatment regret in men with localized prostate cancer. *JNCI Cancer Spectr*, 6(6), 2022. PMID: 36255249. PMCID: PMC9731205.
 25. Wright MF, Pozdnyakova O, Hasserjian RP, Aggarwal N, Shaver AC, Weinberg OK, Irlmeier R, **Koyama T**, Seegmiller AC, Strickland SA, and Mason EF. Secondary-type mutations do not impact prognosis in acute myelogenous leukemia AML with mutated NPM₁. *Am J Hematol*, 97(12), 2022. PMID: 36106410.
 26. De B, Pasalic D, Barocas DA, Wallis CJD, Huang LC, Zhao Z, **Koyama T**, Tang C, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Penson DF, and Hoffman KE. Patient-reported outcomes after external

- beam radiotherapy with low dose rate brachytherapy boost vs. radical prostatectomy for localized prostate cancer: Five-year results from a prospective comparative effectiveness study. *J Urol*, 208(6):1226–1239, 2022. PMID: 36006050. PMCID: PMC9933910.
27. Ameka MK, Beavers WN, Shaver CM, Ware LB, Kerchberger VE, Schoenfelt KQ, Sun L, **Koyama T**, Skaar EP, Becker L, and Hasty AH. An iron refractory phenotype in obese adipose tissue macrophages leads to adipocyte iron overload. *Int J Mol Sci*, 23(13), 2022. PMID: 35806422. PMCID: PMC9267114.
 28. Sui W, Miller NL, Gould ER, Zhang KC, **Koyama T**, and Hsi RS. Proton pump inhibitors use and risk of incident nephrolithiasis. *Urolithiasis*, 50(4):401–409, 2022. PMID: 35499617.
 29. Takahashi K, Yamamoto K, Kuchiba A, and **Koyama T**. Confidence interval for micro-averaged F_1 and macro-averaged F_1 scores. *Appl Intell (Dordr)*, 52(5):4961–4972, 2022. PMID: 35317080. PMCID: PMC8936911.
 30. Baum LV, **Koyama T**, Schremp EA, Zhang K, Rodweller CA, Roth MC, Compas BE, and Friedman DL. Posttraumatic stress symptoms and financial toxicity among adolescent and young adult oncology patients and their caregivers at cancer diagnosis. *Cancer*, 128(10):2005–2014, 2022. PMID: 35226364.
 31. Luckenbaugh AN, Wallis CJD, Huang LC, Wittmann D, Klaassen Z, Zhao Z, **Koyama T**, Laviana AA, Conwill R, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Hoffman KE, Penson DF, and Barocas DA. Association between treatment for localized prostate cancer and mental health outcomes. *J Urol*, 207(5):1029–1037, 2022. PMID: 34978488. PMCID: PMC9933911.
 32. Hiremath G, Sun L, Correa H, Acra S, Collins MH, Bonis P, Arva NC, Capocelli KE, Falk GW, King E, Gonsalves N, Gupta SK, Hirano I, Mukkada VA, Martin LJ, Putnam PE, Spergel JM, Wechsler JB, Yang GY, Aceves SS, Furuta GT, Rothenberg ME, **Koyama T**, and Dellon ES. Development and validation of web-based tool to predict lamina propria fibrosis in eosinophilic esophagitis. *Am J Gastroenterol*, 117(2):272–279, 2022. PMID: 34932022. PMCID: PMC8858426.
 33. Wallis CJD, Zhao Z, Huang LC, Penson DF, **Koyama T**, Kaplan SH, Greenfield S, Luckenbaugh AN, Klaassen Z, Conwill R, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Hoffman KE, and Barocas DA. Association of treatment modality, functional outcomes, and baseline characteristics with treatment-related regret among men with localized prostate cancer. *JAMA Oncol*, 8(1):50–59, 2022. PMID: 34792527. PMCID: PMC8603232.
 34. Wallis CJD, Huang LC, Zhao Z, Penson DF, **Koyama T**, Conwill R, Tallman JE, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, O'Neil BB, Kaplan SH, Greenfield S, Barocas DA, and Hoffman KE. Association between pelvic nodal radiotherapy and patient-reported functional outcomes through 5 years among men undergoing external-beam radiotherapy for prostate cancer: An assessment of the comparative effectiveness analysis of surgery and radiation (CEASAR) cohort. *Urol Oncol*, 40(2):56.e1–56.e8, 2022. PMID: 34154899. PMCID: PMC9933913.

35. Joyce DD, Wallis CJD, Luckenbaugh AN, Huelster HL, Zhao Z, Hoffman KE, Huang LC, **Koyama T**, Conwill R, Goodman M, Hamilton AS, Wu XC, Paddock LE, Stroup A, Cooperberg MR, Hashibe M, Neil BBO, Kaplan SH, Greenfield S, Penson DF, and Barocas DA. Sexual function outcomes of radiation and androgen deprivation therapy for localized prostate cancer in men with good baseline function. *Prostate Cancer Prostatic Dis*, 25(2):238–247, 2022. PMID: 34108648.
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B. Extramural Seminars and Presentations

Session Chairs

1. Early phase clinical trials. *International Conference on Applied Statistics*, Tamkang University, Taipei, Taiwan. March 11-12, 2011.
2. Early phase combination trial. *Pacific Rim Cancer Biostatistics Workshop*, Kanazawa, Japan. October 12-13, 2017.

Invited presentations

1. A calculus for design of two-stage adaptive procedures. *Workshop on Adaptive Designs*. The Fields Institute, Toronto, Ontario, Canada. September 25-27, 2003.
2. A flexible method for design of two-stage adaptive procedures. *Meisei University*, Tokyo, Japan. December 15, 2003.
3. Two-stage adaptive procedures for simultaneously testing noninferiority and superiority. *American Statistical Association Middle Tennessee Chapter Meeting*. Nashville, TN. February 27, 2004.
4. Proper inference from Simon's two-stage designs. *Conference and Celebration for Leon Gleser and Tom Savits*. Department of Statistics, University of Pittsburgh. Pittsburgh, PA. May 5-6, 2006.
5. Applications of adaptive designs. *The 2006 Japanese Joint Statistical Meeting*. Sendai, Japan. September 7, 2006.

6. Applications of adaptive designs in phase II clinical trials. *Tokai Medical Association*, Isehara, Japan. September 11, 2006.
7. Miscellaneous topics in probability. *American Statistical Association Middle Tennessee Chapter Meeting*. Nashville, TN. October 27, 2006.
8. Inference from general adaptive designs. *Grants-in-Aid Conference on Applications of Multiple Decision Making in Clinical Drug Development*. Kobe, Japan. February 27-28, 2007.
9. Flexible designing of a two-stage adaptive procedures. *Targeted Designs for Clinical Trials*. Philadelphia, PA. July 19-20, 2007.
10. Bayesian statistics in academics in the United States. *Bayesian Statistics and the Future of Clinical Trials*. StatCom Company Fifth Anniversary Symposium, Tokyo, Japan. December 5, 2008.
11. Fundamentals of adaptive designs. *Forum for Antineoplastic Agent Development*. Japanese Foundation for Cancer Research. Tokyo, Japan. June 18, 2011.
12. The prudent statistician's guide to two-stage designs. *Public Health & Preventive Medicine Grand Rounds*. Knit Cancer Institute, Oregon Health Science & Science University. Portland, OR. December 19, 2013.
13. Statistical considerations for dose finding phase I clinical trials: a scientific reviewer's perspective. *Tokai Medical Association*, Isehara, Japan. July 10, 2014.
14. Rigorous statistics for basic and clinical sciences. *Division of Mathematical Sciences*, Osaka University, Osaka, Japan. July 16, 2014.
15. Statistics in phase I clinical trials. *University of Osaka*, Osaka, Japan. July 16, 2014.
16. Statistical considerations for dose finding phase I clinical trials. *Department of Statistics, National Cheng Kung University*, Tainan, Taiwan. September 9, 2014.
17. From 3+3 to mTPI: A Collaborative Biostatistician's Experience in a Comprehensive Cancer Center *Pacific Rim Cancer Biostatistics Workshop*, Kanazawa, Japan. October 12-13, 2017.
18. Multiplicity in clinical trial: FDA guidance and EMA guidelines. *2018 Association of Clinical and Translational Statistic. Annual Meeting*, Vancouver, Canada. July 29, 2018.
19. What we don't talk about when we talk about biostatistics: Challenges in data merging and treatment definition in a large-scale observational study *Department of Biostatistics, University of Louisville*, November, 2, 2018.
20. Very difficult non-biostatistical challenges that the team of biostatisticians faced in a large population-based cohort study in prostate cancer. *Hiroshima University Renal and Urology Research Seminar*, July 5, 2019.
21. Very difficult non-biostatistical challenges that the team of biostatisticians faced in a large population-based cohort study in prostate cancer. *Osaka City University Clinical Research Educational Seminar Series*, July 9, 2019.

22. Very difficult non-biostatistical challenges that the team of biostatisticians faced in a large population-based cohort study in prostate cancer. *Yokohama City University*, July 11, 2019.
23. Statistical considerations for designing a clinical trial. *Vanderbilt-Global Haploidentical Transplant Learning Collaborative Meeting*, Nashville, TN. September 9, 2019.
24. The Biostatistician's role in team science: a case study of collaborating on a large prostate cancer study. *Cancer Research Seminar Series*, The University of Tennessee Health Science Center, Memphis, TN. November 5, 2019.

Contributed Presentations

25. Flexible designing of two-stage adaptive procedures. *ENAR Spring Meeting*. Pittsburgh, PA. March 28-31, 2004.
26. Combinations of two-stage designs for testing multiple treatments in phase II cancer trials. *ENAR Spring Meeting*. Austin, TX. March 20 -23, 2005.
27. Significant design components in general two-stage adaptive procedures. *Joint Statistical Meeting*. Minneapolis, MI. August 7-11, 2005.
28. Pitfalls of simplistic normalization in basic science experiments. *Joint Statistical Meeting*. Vancouver, BC, Canada. July 29-August 5, 2010.

Contributed Posters

29. Two-stage procedures for simultaneously testing noninferiority and superiority. *Midwest Biopharmaceutical Statistical Workshop*. Muncie, IN. May 24-26, 2004.

C. Intramural Seminars and Presentations at Vanderbilt

1. Two-stage adaptive procedures for simultaneously testing noninferiority and superiority. *Biostatistics Seminar*. Department of Biostatistics. February, 2004.
2. General two-stage adaptive designs in phase III clinical trials. *Biostatistics Seminar*. Department of Biostatistics. February, 2005.
3. Proper inference from Simon's two-stage designs. *Biostatistics Seminar*. Department of Biostatistics. February, 2007.
4. Miscellaneous topics in probability and statistics. *Cancer Biostatistics Center Luncheon*. November, 2007
5. Bayesian biostatistics. *Cancer Biostatistics Center Luncheon*. March, 2008
6. *T*-test on fold changes. *Biostatistics Seminar*. Department of Biostatistics. June, 2010.
7. Non-analytical challenges faced by a team of biostatisticians when collaborating on a large cohort study in prostate cancer. *Biostatistics Seminar*. Department of Biostatistics. September, 2019.

RESEARCH PROGRAMS

The list includes some grants to which Dr. Koyama has contributed though the efforts have subsequently been transferred to other members of the Department of Biostatistics and Center for Quantitative Sciences.

5P50 CA090949 (Carbone) 9/1/2003 - 3/31/2012
 NIH/NCI Role: Co-investigator
 SPORC in Lung Cancer

The major goal of this project is to investigate the molecular features of tumors or tumor-host interactions to identify targets for intervention and improve outcomes for lung cancer patients.

5K24 CA080908 (Carbone) 9/1/2003 - 5/31/2005
 NIH/NCI Role: Co-investigator
 Molecular Therapeutics of Cancer

The major goal of this project is to enable the partnering of premiere institutions based in the Lung Cancer SPORC program to determine how the information derived from comprehensive molecular analyses can be used to improve patient care and outcomes.

R21 DK069527 (Bhowmick) 9/30/2003 - 8/31/2008
 NIDDKD Role: Co-investigator
 TGF β Signaling in the Bladder Stroma

The major goal of this project is to explore the TGF β -mediated signals in the stroma that mediate bladder estrogen and androgen responsiveness associated with bladder stromal hyperplasia.

2U01 CA099177 (Rothenberg) 12/01/2003 - 2/28/2009
 NCI Role: Co-investigator
 Vanderbilt Phase I Translational Research Program

The major goal of this project is to conduct early-phase, dose-ranging trials of new anticancer agents to characterize their toxicity, pharmacology, and effects on molecular targets.

5P01 CA077839 (DuBois) 5/1/2004 - 4/30/2010
 NIH/NCI Role: Co-investigator
 Mechanisms for Chemoprevention of Cancer

The major goal of this project is to determine the molecular mechanisms involved in the chemoprevention of cancer by NSAIDs.

5R01 CA108646 (Bhowmick) 8/1/2004 - 5/31/2010
 NCI Role: Co-investigator
 TGF β Signals in Prostate Stromal-Epithelial Interactions

The major goal of this project is to specifically identify the TGF β -mediated signals in the stroma that mediate prostate androgen responsiveness.

W81XWH-04-1-0867 (Hayward) 9/10/2004 - 9/14/2007
 DOD Role: Co-investigator
 An Myc-driven *in vivo* Model of Human Prostate Cancer

The major goal of this project is to develop a novel *in vivo* model of human prostate cancer based upon overexpression of the cMyc proto-oncogene.

- AICR (Fowke)** 2/1/2005 - 1/31/2007
 American Institute for Cancer Research Role: Co-investigator
 Effects of Brassica or Indole-3-Carbinol in Prostatectomy Patients with PSA Recurrence
 The major goal of this project is to determine the effect of a diet rich in Brassica vegetables, or a non-nutrient diet supplement containing the Brassica-derived chemical believed to be biologically active, on PSA velocity.
- U01 HL081332 (Ware)** 8/12/2005 - 6/30/2010
 NHLBI Role: Co-investigator
 Biomarker Profiles in the Diagnosis/Prognosis of ARDS
 The major goal of this project is to utilize a multi-disciplinary clinical proteomics approach to identify biomarkers for the diagnosis and prognosis of acute respiratory distress syndrome (ARDS).
- 5U01 CA114771 (Carbone)** 9/30/2005 - 5/31/2011
 NCI Role: Co-investigator
 Molecular Signature of Lung Cancer (SPECS)
 The major goal of this project is to evaluate the potential clinical usefulness of several molecular signatures already developed using a variety of molecular analysis technologies, including DNA, RNA, and protein-based technologies addressing both diagnostic and predictive signatures.
- LAF Research Award (Matthews)** 1/1/2006 - 12/31/2007
 Lance Armstrong Foundation Role: Co-investigator
 Exercise Intervention for Chemotherapy-Related Cognitive Dysfunction
 The major goal of this project is to investigate the effects of exercise on chemotherapy-related cognitive dysfunction.
- 2R01 CA106176 (El-Rifai)** 3/20/2006 - 6/30/2008
 NCI Role: Co-investigator
 Biomarkers in Barrett's Tumorigenesis
 The major goal of this project is to discover novel diagnostic and/or prognostic molecular markers for Barrett's carcinomas.
- 2005 Research Reward (Fowke)** 4/1/2006 - 3/31/2008
 Prostate Cancer Foundation Role: Co-investigator
 Glitazones and Prostate Cancer Risk in a Large Cohort of Men with Type II Diabetes
 The major goal of this project is to determine the duration of Glitazone use, age at use, and most effective Glitazone associated with reduced prostate cancer risk.
- P50 GM015431 (Oates)** 7/3/2006 - 6/30/2011
 NIH/NIGMS Role: Biostatistician
 Research Center for Pharmacology and Drug Toxicology
 The major goal of this project is to support research related to Eicosanoid biology and pharmacology.
- R01 EB006193 (Dawant)** 5/1/2007 - 2/28/2011
 NIBIB Role: Co-investigator
 Autosegmentation for Head and Neck Radiotherapy Planning
 The major goal of this project is to develop, implement, and test the methodology required to automate the segmentation of structures in the treatment of patients with intracranial and head-and-neck cancers.

VUMC Discovery Grant (Koyama)

7/1/2007 - 6/30/2009

VUMC

Role: Principal investigator

Proper Inference from a Simon's Design When The Sample Size is Changed

The major goal of this project is to develop a new analysis method that will compute a more accurate or proper p-value and confidence intervals for two-stage clinical trials.

5P30 DK058404 (Polk)

8/30/2007 - 5/31/2022

NIDDKD

Role: Core leader

Molecular and Cellular Basis of Digestive Diseases

The major goal of this project is to investigate the molecular and cellular mechanisms responsible for digestive diseases.

5R01 HL088263 (Ware)

2/1/2008 - 1/31/2013

NHLBI

Role: Co-investigator

Treatment of Pulmonary Edema in Organ Donors

The major goal of this project is to determine whether administration of an aerosolized beta-2 agonist in brain-dead organ donors will improve: 1) donor oxygenation by enhancing clearance of pulmonary edema and 2) donor lung procurement rates.

5R01 HD059253 (Malow)

4/1/2008 - 3/31/2010

NINDS

Role: Co-investigator

Melatonin for Sleep in Children with Autism: Safety, Tolerability, and Dosing

The major goals of this project are to optimize the intervention strategy for administering supplemental melatonin in children with asd; characterize the pharmacokinetic profile of supplemental melatonin; and pilot a group of behavioral and parental stress scales in preparation for an rct.

5R01 CA077955 (Peek)

6/1/2008 - 3/31/2013

NCI

Role: Co-investigator

H. Pylori Relationship to Digestive Diseases and Cancer

The major goal of this project is to define mechanisms through which H. Pylori induce epithelial responses with carcinogenic potential.

5R01 CA093999 (El-Rifai)

7/1/2008 - 4/30/2013

NCI

Role: Co-investigator

Gene Amplification and Overexpression at 17q in Gastric Cancer

The major goal of this project is to investigate the prevalence of 17q alterations in gastric cancer and identify critical changes at this chromosomal region.

5P50 CA098131 (Arteaga)

9/11/2008 - 5/31/2013

NCI

Role: Co-investigator

SPORE in Breast Cancer

The major goal of this project is to address basic, clinical, and population research questions in breast cancer.

5R01 CA095405 (Mahadevan-Jansen)

9/19/2008 - 7/31/2013

NCI

Role: Co-investigator

Diagnosis of Cervical Precancers using Raman Spectroscopy

This project aims to assess the validity of the hypothesis that Raman spectroscopy can provide differential diagnosis of cervical precancers from inflammation, squamous metaplasia and normal areas of the cervix.

5P50 CA128323 (Gore) 9/22/2008 - 8/31/2013
NIH/NCI Role: Co-investigator
Vanderbilt *in vivo* Cellular and Molecular Imaging Center

The major goal of this project is to establish a new In Vivo Cellular and Molecular Imaging Center at Vanderbilt University which will be dedicated to highly innovative molecular imaging studies of cancer biology of direct relevance and translational potential to clinical cancer care.

5P01 CA116087 (Peek) 1/1/2009 - 8/31/2023
NCI Role: Co-investigator
H. Pylori-Induced Inflammation and Gastric Cancer

The major goal of this project is to delineate the molecular signaling events initiated by H. pylori: epithelial cell contact that regulates phenotypes related to gastric carcinogenesis.

DOD PC081246 (Bhowmick) 4/1/2009 - 3/31/2012
DOD Role: Co-investigator
Regulation and Function of Cytokines That Predict Prostate Cancer Metastasis

The major goal of this project is to identify the biologic role of specific chemokines shown to predict biochemical prostate cancer recurrence following prostatectomy.

5R01 DK081134 (Yan) 4/1/2009 - 3/31/2014
NIDDKD Role: Biostatistician
Probiotics-Derived Soluble Proteins Regulate Intestinal Inflammation

The major goals of this project are to investigate the relationships between p40 and intestinal cell survival, inflammation, and apoptosis.

5R01 CA131225 (El-Rifai) 6/1/2009 - 4/30/2014
NCI Role: Co-investigator
The Role of Aurora Kinase A in Upper Gastrointestinal Adenocarcinomas

The major goal of this project is to characterize the role of AURKA in GEC tumorigenesis to identify its biological, clinical, diagnostic, and prognostic value.

2R01 DK056008 (Polk) 8/1/2009 - 7/31/2014
NIDDK Role: Co-investigator
Cytokine Regulation of Intestinal Epithelial Restitution

The major goal of this project is to characterize the role of the TNFRs in regulating intestinal epithelial cells in health and after injury.

5R01 CA133738 (El-Rifai) 8/13/2009 - 7/31/2012
NCI Role: Co-investigator
The Role of T-Darpp in Upper Gastrointestinal Adenocarcinomas

The major goals of this project are to determine the effects of t-Darpp expression on trastuzumab resistance, to investigate the mechanism(s) by which t-Darpp regulates apoptosis, and to determine the molecular signaling targets of t-Darpp.

- 7R01 CA114524** (Penson) 9/25/2009 - 7/31/2011
 NCI Role: Co-investigator
 Race, Comorbidity, Long-Term Prostate Cancer Outcomes
 The major goal of this project is to explore the relationships among race, comorbidity, and long-term prostate cancer outcomes.
- 5R01 CA106176** (El-Rifai) 4/1/2010 - 3/31/2011
 NCI Role: Co-investigator
 Molecular Pathobiology of Barrett's Tumorigenesis
 The major goal of this project is to discover novel diagnostic and/or prognostic molecular markers for Barrett's carcinomas.
- 5R01 CA142565** (Yankeelov) 5/1/2010 - 4/30/2015
 NCI Role: Co-investigator
 PET-MRI for Assessing Treatment Response in Breast Cancer Clinical Trials
 The major goal of this project is to provide the breast cancer community with practical data acquisition and analysis protocols that facilitate the translation of advanced imaging technologies into clinical practice.
- 5R01 DK087962** (Fowke) 7/1/2010 - 6/30/2014
 NIDDK Role: Co-investigator
 Biomarkers of Obesity, Prostate Tissue Inflammation, and BPH Progression
 The major goal of this project is to investigate the molecular/cellular and clinical associations among obesity, prostate inflammation, and prostate hyperplasia.
- 1R01 CA143094** (Lynch) 7/1/2010 - 6/30/2015
 NIH Role: Co-investigator
 Host MMP-Mediated Regulation of the Vicious Cycle of Prostate to Bone Metastases
 The major goal of this project is to investigate how individual matrix metalloproteinases (MMPs) expressed by the host facilitate the metastasis of prostate cancer to bone by regulating the bioactivity and bioavailability of various growth factors and cytokines.
- 5R21 AR062880** (Archer-Swygert) 4/20/2012 - 3/31/2014
 NIAMS Role: Co-investigator
 Cognitive-Behavioral Based Physical Therapy: Improving Surgical Spine Outcomes
 The major goal of this project is to study the efficacy of a brief cognitive-behavioral based PT (CBPT) intervention in patients at-risk for poor outcomes following lumbar spine surgery for degenerative conditions.
- 1P20 DK097782** (Hayward) 9/29/2012 - 7/31/2014
 NIDDK Role: Co-investigator
 Obesity, Inflammation, and Resistance to BPH
 This project aims to determine the role of obesity in the development of benign prostatic hyperplasia (BPH).
- 1R03 CA173812** (Barocas) 1/1/2013 - 12/31/2014
 NCI Role: Co-investigator
 Trends in Surveillance for Localized Prostate Cancer and Barriers to Its Use

The major goal of this project is to identify differences in the patient and disease characteristics among men with prostate cancer who chose surveillance from two eras (1990's and 2010's).

1R03 CA173807 (Barocas) 1/1/2013 - 12/31/2014
 NCI Role: Co-investigator
 The Quality of Care in Evaluating Patients Suspected of Having Bladder Cancer

This project aims to determine the current quality of evaluation of patients with hematuria, identify racial variation in the timely and complete evaluation of hematuria and determine the underlying reasons for such variation.

IRG 58-009-53 (Esbenshade) 1/1/2013 - 12/31/2013
 ACS-IRG Role: Co-investigator
 ALL-Active: A Family-Based Lifestyle Program for Pediatric Acute Leukemia Patients

The major goal of this project is to develop a feasible and acceptable family-based nutrition and exercise intervention for overweight or overweight at risk patients during the maintenance phase of the ALL therapy, which can be further tested for efficacy in a larger scale randomized clinical trial.

1R21 HL117676 (Bastarache) 4/1/2013 - 3/31/2015
 NHLBI Role: Co-investigator
 Free Hemoglobin Potentiates Pulmonary Vascular Dysfunction in Acute Lung Injury

The major goal of this project is to determine whether free hemoglobin is an important determinant of pulmonary vascular dysfunction in clinical ALI/ARDS.

5R21 HL112656 (Ware) 5/1/2013 - 4/30/2014
 NHLBI Role: Co-investigator
 Inflammatory and Epithelial Injury

The major goal of this project is to validate SP-D and IL-8 as predictors of clinical outcome in 888 patients enrolled in the NHLBI ARDS Network Fluid and Catheter Treatment Trial (FACTT).

VUMC 41268 / CE-12-11-4667 (Penson) 9/1/2013 - 8/31/2016
 PCORI Role: Co-investigator
 Generating Critical Patient-Centered Information for Decision Making in Localized Prostate Cancer

The major goal of this project is to better align clinical decision-making with individual patient values and preferences and inform patient choice of healthcare providers based on the quality of care provided.

1R01 HS022640 (Penson) 9/30/2013 - 9/29/2018
 AHRQ -CHOICE Role: Co-investigator
 Comparative Effectiveness of Treatments for Localized Prostate Cancer

The major goals of this project are to compare the effectiveness and harms of contemporary surgery, radiation, and AS, to identify patient-level characteristics that influence the comparative effectiveness and harms of treatment, and to evaluate the association of quality of care with clinical and patient-reported outcomes.

Pilot Project (Ware) 10/1/2013 - 3/31/2015
 NIH/VUMC Role: Co-investigator
 VU Center for Molecular Toxicology Pilot Project

Funding awarded by the Vanderbilt University Center for Molecular Toxicology (NIEHS P30 ES000267).

5UM1 CA186689-02 (Berlin)

3/1/2014 - 2/28/2019

NCI

Role: Co-investigator

ViKTriY Early Clinical Trials Consortium

The ultimate purpose of this project is to define better approaches for the development of novel anticancer agents that capitalize on the ability to characterize tumors molecularly and find appropriate biomarkers to select patients most likely to respond to specific agents.

5R01HL126176-02 (Ware)

12/1/2014 - 5/31/2021

NHLBI

Role: Co-investigator

The GOLD Study: Goal of Open Lung Ventilation in Donors

The current supply of donor lungs is inadequate to meet the growing demand. Well-designed studies of scientifically compelling donor management strategies are urgently needed to improve the quality and availability of donor lungs. The proposed studies will test a new mechanical ventilator strategy to optimize donor lung function in order to increase utilization of donor lungs for transplantation.

1K23 NS091524-01 (Patel)

4/1/2015 - 3/31/2020

NINDS

Role: Co-investigator

DASH (Decreasing Adrenergic or Sympathetic Hyperactivity) After TBI Study

The major goals of this project are to determine the effect of adrenergic blockade on short-term ICU outcome after severe TBI, to determine the effect of adrenergic blockade on long-term cognitive and functional outcomes, and to determine the effect of adrenergic blockade on autonomic endpoints after severe TBI.

W81XWH-15-1-0259 (Fowke)

9/1/2015 - 8/31/2017

DOD

Role: Co-investigator

Magnesium Predicts High-Grade Prostate Cancer and a Poorer Prognosis among Black and White Men

The major goal of this project is to extend our prior epidemiologic analysis of Mg and PC in white men to evaluate the Mg-PC association among black men.

2K24HL103836-06 (Ware)

6/1/2016 - 3/31/2021

NHLBI

Role: Co-investigator

Midcareer Investigator Award in Patient-Oriented Research in Acute Lung Injury

The overall goal of this application is to provide support for Dr. Ware to continue to build and expand her research and mentoring programs in patient-oriented research in acute respiratory distress syndrome, a common cause of acute lung failure. In addition to providing support for mentoring activities, this award will support new research in the causes of acute respiratory distress syndrome after lung transplantation, the most common cause of death in the acute period after lung transplantation.

5R21TR001723-02 (Aronoff)

9/1/2016 - 7/31/2018

NCATS

Role: Co-investigator

Repurposing Misoprostol for Clostridium Difficile Colitis as Identified by pheWAS

The major goal of this project is to define the optimal dose and timing of administration of oral misoprostol in a mouse model of relapsing CDI and to determine the correlates of protection by misoprostol in a mouse model of relapsing CDI.

5R01CA207401-02 (Hull)

12/20/2016 - 11/30/2021

NCI

Role: Co-investigator

Increasing HPV Vaccination in Community-Based Pediatric Practices

Our central goal is to identify the optimal approach to implementing an evidence-based intervention for the uptake and completion of HPV vaccine among adolescents receiving care in the community, guided by implementation science theory.

217-68001-26352 (Hull) 4/15/2017 - 4/14/2018
US Department of Agriculture Role: Co-investigator
Children Eating Well (CHEW) Smartphone Application for WIC families

2P30DK058404-16 (Peek) 8/1/2017 - 5/31/2022
NCI Role: Co-investigator
Molecular and Cellular Basis for Digestive Diseases

The overall goal of the GiSMC is to provide murine models of bariatric surgery using procedures designed to reflect those performed in humans, liver and small bowel transplantation, and unique customized surgical models adapted to the needs of VDDRC members.

1R01 HL135849-01 (Ware) 8/1/2017 - 4/30/2021
NHLBI Role: Co-investigator
Targeting Cell-Free Hemoglobin in Sepsis to Reduce Lung Microvascular permeability: Mechanistic and Translational Studies

Our primary goal is to translate these findings to new targeted therapies that will be tested in our novel human lung model as preparation for rapid translation to clinical trials in sepsis. In Aim 1, we will study the mechanism by which CFH increases microvascular permeability and acute lung injury through induction of mitochondrial oxidative injury and dysfunction in the isolated human lung, clinically relevant models of sepsis-induced ARDS and cultured pulmonary microvascular endothelial cells.

5R01HD090061-02 (Gaddy) 9/1/2017 - 5/31/2022
NIH/NICHD Role: Co-investigator
Determining the Contribution of Zinc Deficiency to Perinatal Group B Streptococcus Infections

This work will identify novel biomarkers for increased disease risk and cost-effective dietary or chemotherapeutic strategies that could improve pregnancy outcomes.

1R01CA225005-01 (Friedman) 7/1/2018 - 6/30/2023
NCI Role: Co-investigator
Research Into Visual Endpoints and RB Health Outcomes After Treatment

The RIVERBOAT Consortium: The overall goal of this effort is to organize the first and largest international multicenter, multi-racial and ethnic consortium of retinoblastoma (RB) survivors to study health outcomes and interrogate genotype-phenotype correlations of disease presentation.

VUMC71798 (Penson) 10/1/2018 - 9/30/2021
UCLA/PCORI Role: Co-investigator
Using PCORI Data to Drive Better Decisional Quality for Men with Localized Prostate Cancer

The purpose of this research is to further close the gap between evidence development and implementation of evidence into practice.

1R01CA230352-02 (Barocas) 4/1/2019 - 3/31/2024
NCI Role: Co-investigator
10-year Comparative Effectiveness and Harms of Treatments for Prostate Cancer

Our aim is to expand upon an established population-based cohort of approximately 3,000 men diagnosed with localized prostate cancer between 2011 and 2012, by collecting 10-year clinical and patient-reported information. This will enable comparisons of oncologic outcomes and quality of life outcomes among the treatment options, thereby providing information to power shared-decision making processes between patients and their providers. Specific Aims are: 1) Compare clinical outcomes in men undergoing contemporary radiation therapy, surgery and active surveillance for localized prostate cancer approximately 10 years after diagnosis; 2) Compare 10-year patient-reported outcomes among men undergoing contemporary radiation therapy, surgery and active surveillance for localized prostate cancer; and 3) Explore the extent to which patient characteristics modify comparative effectiveness and harms.

1R01CA240093-01 (Friedman)

8/1/2019 - 7/31/2024

NCI

Role: Co-Investigator

Enhancing Cancer Care of Rural Dwellers Through Telehealth and Engagement (ENCORE)

The specific aims of this proposal are to: 1) evaluate the clinical effectiveness of a multi-level telehealth-based intervention for rural hospitals consisting of provider access to tumor board expertise that incorporates disease, patient, and molecular tumor characteristics, together with patient access to a supportive care intervention to improve cancer care delivery; and 2) identify the facilitators and barriers to future larger scale dissemination and implementation of the multi-level intervention, designed to enhance quality rural cancer care delivery.

1R01DK129624-01 (Reynolds)

7/1/2021 - 6/30/2026

NIDDK

Role: Co-Investigator

Stress and Anxiety Effects on Overactive Bladder: A Controlled Study

The proposed, interdisciplinary research that includes experts in Urology, Psychology, and chronic pain research will contribute to the fundamental knowledge of how psychology relates to bladder sensitivity and to psychological burdens in people with overactive bladder and how this can be measured effectively. This will allow future studies in which interventions to improve bladder health and incontinence can be implemented and outcomes recorded, with the goal of improving bladder health.

1R21GM144915-01 (Bastarache)

12/1/2021 - 11/30/2025

NIGMS

Role: Co-Investigator

The Sepsis ClinicAI Resource And Biorepository (SCARAB) Project

Here we propose to create a unique resource, the Sepsis ClinicAI Resource And Biorepository (SCARAB) registry comprising prospectively enrolled sepsis patients and critically ill control patients, their complete, de-identified medical records, automated phenotyping algorithms, and a complement of serial biological specimens to be used by the sepsis research community.

1R01HL158906-01 (Ware)

9/1/2021 - 8/31/2025

NHLBI

Role: Co-Investigator

Haptoglobin 2 variant and endothelial glycocalyx shedding in sepsis-induced ARDS

Our primary goal is to translate these findings to new targeted therapies that will be tested in our novel isolated human lung model as preparation for rapid translation to targeted clinical trials in sepsis.

1UG3CA260318-01 (Friedman)

9/22/2021 - 8/31/2023

NCI

Role: Co-Investigator

CAUSAL: Cohort to Augment the Understanding of Sarcoma Survivorship Across the Lifespan

Major Goals: Sarcomas represent a rare and highly heterogeneous subtype of tumors that may develop across the lifespan. In the United States (US), there are approximately 14,000 new cases annually, with approximately 65% survival. Aside from those included in pediatric cancer survivor cohort studies, there are no sarcoma survivor cohorts in which to systematically study recurrence, organ toxicity, function, quality of life, and survival as well as their predictors. We propose to address these critical gaps in knowledge by establishing a cohort of approximately 2100 sarcoma survivors through the Vanderbilt University Medical Center (VUMC) Sarcoma Treatment Center, which is amongst the largest sarcoma programs in the US, in existence since 1987. In this cohort, we will systematically collect repeated information on disease, treatment, response, relapse, treatment-related toxicity, sociodemographics, lifestyle, functional status, quality of life, physical health outcomes, and survival, together with biospecimens (tumor tissue and peripheral blood samples).

VUMC9441/2017-68001-26352 (Hull) 04/15/2017 - 04/30/2022

University of Kentucky/US Dept of Agriculture Role: Co-Investigator

Children Eating Well (CHEW) Smartphone Application for WIC Families

The objectives of this proposal are to: 1) Develop and maintain version 2.0 of the CHEW app in English and Spanish, and disseminate it to the WIC program to implement in WIC clinics across TN (Extension); 2) Conduct process, outcome, and economic evaluation of the CHEW app implementation in the TN WIC program (Research); and 3) Train high school, undergraduate, and graduate students and post-doctoral fellows in the use of technologies for childhood obesity prevention (Education).

1R01DK128293-01A1 (Reynolds) 9/24/2021 - 07/31/2025

NIDDK Role: Co-Investigator

Central Sensitization and Psychosocial Impacts on Overactive Bladder

Major Goals: The proposed, interdisciplinary research that includes experts in Urology, Psychology, and chronic pain research will contribute to the fundamental knowledge of how central sensitization relates to bladder sensitivity and to psychological burdens in people with overactive bladder and how this can be measured effectively.

VUMC87724 (Miller) 08/03/2021 - 12/31/2021

Mayo Clinic Arizona Role: Biostatistician

Prospective Randomized Double Blind Clinical Trial to Compare Holum Laser Lithotripsy With and Without Moses Laser Technology for the Ureteroscopic Treatment of Nephrolithiasis

Major Goals: The objectives of the EDGE Consortium is to (i) improve outcomes in patients suffering with kidney stone disease by conducting high quality translational research, (ii) to provide an infrastructure to facilitate such high quality research in collaboration with clinicians, scientists and researchers at Mayo Clinic Arizona and other member Sites.

1R01DK129202-01A1 (Hsi) 04/01/2022 - 03/31/2025

NIDDK Role: Co-Investigator

Randomized Trial of Empiric Versus Selective Preventative Strategies for Kidney Stone Disease

This study will evaluate comparative effectiveness of selective versus empiric intervention strategies on urinary risk profiles of kidney stone patients.

1U01HL163303 (Ware) 08/05/2022 - 07/31/2027

NHLBI Role: Co-Investigator

Peri-operative factors that drive cell-free hemoglobin-mediated primary graft dysfunction

Major Goals: We will establish a three-center study to determine how CFH causes PGD and how clinical management alters accumulation and oxidation of CFH, laying the groundwork for clinical trials targeting CFH to reduce risk of PGD.

1R01AI176521 (Goettel)

04/01/2023 - 03/31/2027

NIAID

Role: Co-Investigator

Characterizing antibody responses to HIV-1 vaccination in next-generation immune humanized mice

Major Goals: We have developed a novel HIS mouse strain expressing human leukocyte antigens (HLA)-DQ and HLA-A in the absence of murine major histocompatibility complex (MHC) I/II (to ensure human T cell selection on a more appropriate molecules in the mouse thymus) in combination with human CSF1 knocked into the murine Csf1 locus. We will leverage this new translational HIS platform to: i) Determine the scope of the human adaptive immune response to infection with HIV-1 R5 virus, ii) Determine the neutralization ability of, define the Env epitopes targeted by, and delineate the sequence features for the human adaptive immune response to HIV-1 immunization, and iii) assess a novel vaccination strategy using optimized multivalent immunogens for broad neutralizing antibodies (bNAbs) elicitation.

1R21DK133742 (Kavoussi)

04/01/2023 - 03/31/2025

NIDDK

Role: Co-Investigator

A Navigational System for Endoscopic Kidney Stone Surgery

Major Goals: Our overall goal is to create a navigational system that makes stone localization and tracking within the renal collecting system easier and more accurate for the surgeon. Toward this goal, our specific objective in this proposal is to test the hypothesis that a navigational system during endoscopic stone surgery can improve stone free rates which would mitigate recurrent surgeries or complications from residual fragments.