

CURRICULUM VITAE FOR CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE

FEBRUARY 21, 2023

PERSONAL INFORMATION

Name; last, first middle	Zabor, Emily Craig
Credentials; MD, PhD, etc.	MS, DrPH
Institution / Institute	Cleveland Clinic, Lerner Research Institute
Department	Quantitative Health Sciences
Office Address & Mail Code	9500 Euclid Ave, Cleveland, OH 44195, CA6-158
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EDUCATION & TRAINING

Education

School & City, State / Country	Grinnell College, Grinnell, IA
Degree	BA, Anthropology
Start-End Dates	08/1999 – 05/2003
School & City, State / Country	University of Minnesota, Minneapolis, MN
Degree	MS, Biostatistics
Start-End Dates	08/2008 – 05/2010
School & City, State / Country	Columbia University, New York, NY
Degree	DrPH, Biostatistics
Start-End Dates	01/2013 – 02/2019

PhD Thesis

Title	Statistical Methods for the Study of Etiologic Heterogeneity
Thesis Committee Members	Colin B. Begg, Shuang Wang, Yuanjia Wang, Min Qian, Mary Beth Terry

PROFESSIONAL APPOINTMENTS

Position	Assistant Staff
Institution / Institute	Cleveland Clinic, Lerner Research Institute
Department	Department of Quantitative Health Sciences
Start-End Dates	07/2019 - present
Position	Senior Research Biostatistician
Institution & Institute	Memorial Sloan Kettering Cancer Center
Department	Department of Epidemiology & Biostatistics
City, State / Country	New York, New York, USA
Start-End Dates	04/2018 – 06/2019
Position	Research Biostatistician II
Institution & Institute	Memorial Sloan Kettering Cancer Center
Department	Department of Epidemiology & Biostatistics
City, State / Country	New York, New York, USA

Start-End Dates	08/2015 – 03/2018
Position	Research Biostatistician
Institution & Institute	Memorial Sloan Kettering Cancer Center
Department	Department of Epidemiology & Biostatistics
City, State / Country	New York, New York, USA
Start-End Dates	10/2012 – 07/2015
Position	Assistant Research Biostatistician
Institution & Institute	Memorial Sloan Kettering Cancer Center
Department	Department of Epidemiology & Biostatistics
City, State / Country	New York, New York, USA
Start-End Dates	08/2010 – 09/2012

ACADEMIC APPOINTMENTS

Rank, Department	Assistant Professor of Medicine
Institution & City, State / Country	Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, Ohio, USA
Start-End Dates	03/2020 - present
Rank, Department	Adjunct Professor
Institution & City, State / Country	Hunter College, New York, New York, USA
Start-End Dates	09/2016 - 06/2017

ADDITIONAL CAREER DEVELOPMENT

Research Development

School / Institution	The University of Minnesota, Division of Health Policy & Management
Title / Certificate	Research Assistant
Start-End Dates	2008-2009
School / Institution	National Institutes of Health, Eunice Kennedy Shriver National Institute for Child Health & Human Development
Title / Certificate	Summer Intern in Biomedical Research
Start-End Dates	2009
School / Institution	The University of Minnesota, Coordinating Centers for Biometric Research
Title / Certificate	Research Assistant
Start-End Dates	2009-2010

Editorial Development

School / Institution	American Society of Clinical Oncology
Title / Certificate	Editorial Fellowship, Journal of Clinical Oncology
Start-End Dates	July 1, 2022-June 30, 2023

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Name of Society	American Statistical Association
Role / Title	Member
Start-End Dates	2010-present
Name of Society	Eastern North American Region of the International Biometric Society
Role / Title	Member
Start-End Dates	2011-present

Name of Society	American Society of Clinical Oncology
Role / Title	Member
Start-End Dates	2015-2019
Name of Society	Society for Epidemiologic Research
Role / Title	Member
Start-End Dates	2017-2019
Name of Society	Eastern North American Region of the International Biometric Society
Role / Title	Council for Emerging and New Statisticians Committee Member
Start-End Dates	2019-2021

PROFESSIONAL SERVICES

Editorial Board Membership

Journal 1	Journal of Urology, Editorial Board of Statisticians
Start-End Dates	2018-2020
Journal 2	European Urology, Statistical Associate Editor
Start-End Dates	2019-2021
Journal 3	R Journal, Associate Editor
Start-End Dates	2020-present
Journal 4	Journal of Urology, Chief Statistician
Start-End Dates	2021-present

Manuscript Reviewer

Journal 1	Journal of Urology
Start-End Dates	2013-2017
Journal 2	Journal of Clinical Oncology
Start-End Dates	2017-present
Journal 3	Journal of the American Statistical Association
Start-End Dates	2018-present
Journal 3	R Journal
Start-End Dates	2019-2020
Journal 3	ROpenSci
Start-End Dates	2021-present

Advisory Groups

Organization	R-Ladies, NYC
Title	Board Member
Start-End Dates	2016-2019

COMMITTEE SERVICE

International

Organization	International Society for Clinical Biostatistics
Committee Name / Role	ISCB44 Scientific Program Committee
Start-End Dates	2022-2023

National

Organization	R/Medicine
Committee Name / Role	R/Medicine Conference Organizing Committee
Start-End Dates	2022-2023

Cleveland Clinic

Committee Name / Role	CCLCM Clinic Research Block Presentations, Faculty Assessor
Start-End Dates	2019, 2020

Committee Name / Role	2 nd Annual Advances in Early Lung Cancer Detection Conference Breakout Sessions, Statistician Contributor
Start-End Dates	2019

Committee Name / Role	LRI Staff Biostatistician, Search Committee Member
Start-End Dates	2020

Committee Name / Role	CCF Research Day, Clinical Abstract Review Committee Member
Start-End Dates	2020

Committee Name / Role	Taussig Cancer Institute Hematologic Fellows Journal Club, Statistical Mentor
Start-End Dates	2020-present

Memorial Sloan Kettering Cancer Center

Committee Name / Role	R User Group, Member
Start-End Dates	2016-2019

Committee Name / Role	Coding Workshop, Founder & Chair
Start-End Dates	2018-2019

HONORS & AWARDS

Mortar Board Honor Society, Grinnell College, 2002-2003

Ralph A. Leubben Prize for Anthropology, Grinnell College, 2003

Outstanding Teaching Assistant Award, The University of Minnesota, 2009

Travel Awardee, American Statistical Association Section on Statistics in Epidemiology, 2017

TEACHING ACTIVITIES**Curriculum/ Course Development**

1. Introduction to Biostatistics, Hunter College, New York, NY
Spent 3 hours/week creating content and 3 hours/week teaching the course, 2016-2017 academic year.
Developed the full curriculum including selecting textbooks, creating course content, designing assignments, writing exams. Graded all assignments and exams. Answered student questions and provided feedback.

Invited Lectures**International**

1. "Bayesian Basket Trial Design With False Discovery Rate Control." International Indian Statistical Association Conference, Virtual. 05/2021.

2. “Brief Introduction to Phase II Designs in Oncology.” Seventh International Conference on Statistics for Twenty-first Century, Virtual. 12/2021.
3. “Bayesian Basket Trial Design with False Discovery Rate Control.” 43rd Annual Conference of the International Society for Clinical Biostatistics, Newcastle, United Kingdom. 08/2022.

National

1. “How Long Will I Live? The Statistics Behind Prognosis In Cancer Research.” New York R Conference, New York, NY. 04/2018.
2. “Teaching Survival Analysis To Clinical Collaborators.” R/Medicine Conference, New Haven, CT. 09/2018.
3. “Statistical Methods For The Study Of Etiologic Heterogeneity.” NYU School of Medicine Department of Population Health, Division of Biostatistics, New York, NY. 10/2018.
4. “Statistical Methods For The Study Of Etiologic Heterogeneity.” Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY. 12/2018.
5. “Reporting Effect Size And Precision In Clinical Research.” American Urological Association Methods in Clinical Urology Research (MCUR) Workshop, Virtual. 07/2021.
6. “Correlating Surrogate Endpoints With Overall Survival At The Individual Patient Level For Precision Oncology.” Joint Statistical Meetings, Virtual. 08/2021.
7. “Optimal Sequential Predictive Probability Designs for Early Phase Expansion Cohorts.” Eastern North American Region of the International Biometric Society Meetings, Houston, TX. 03/2022.
8. “Estimands, interval censoring, and COVID-19-related disruptions to oncology clinical trials.” University of Colorado Biostatistics Seminar Series, Virtual. 04/2022.
9. “Creating publication-ready summary tables with {gtsummary}.” Harvard Data Science Initiative R User Group, Virtual. 12/2022.
10. “Using the case study of Atezolizumab development to rethink early phase oncology trial design.” Dana-Farber Cancer Institute Department of Data Science Frontiers in Biostatistics Seminar Series, Virtual. 02/2023.

Regional/Midwest

1. “Validity Of A Method For Identifying Disease Subtypes That Are Etiologically Heterogeneous.” Mayo Clinic Department of Health Sciences Research, Rochester, MN. 09/2018.
2. “Using the case study of Atezolizumab to rethink early phase oncology trial design.” University of Michigan Biostatistics Seminar Series, Ann Arbor, MI. 11/2022.

Local

1. “Statistical Methods For The Study Of Etiologic Heterogeneity.” Cleveland Clinic Department of Quantitative Health Sciences, Cleveland, OH. 11/2018.
2. “Creating Presentation-Ready Summary Tables With {gtsummary}.” Greater Cleveland R User Group, Cleveland, OH. 09/2020.

Grand Rounds

National

1. “Etiologic Heterogeneity In Cancer.” Cleveland Clinic Florida Cancer Grand Rounds, Weston, FL. 01/2020.

Other Presentations

International

1. “Initial Reactions To Tobacco And Risk Of Future Regular Tobacco Use.” Poster presentation, Third North American Congress of Epidemiology, Montreal, Canada. 06/2011.
2. “A Review Of Statistical Methods For Evaluating Etiologic Heterogeneity.” Oral presentation, Third International Molecular Pathologic Epidemiology Meeting, Boston, MA. 03/2016.
3. “Variable Selection and Its Applications in Biomedical Sciences.” Session chair, International Indian Statistical Association Meeting, Virtual. 05/2021.

National

1. “Association Between Periodontal Disease, Bacterial Vaginosis, And Sexual Risk Behaviours.” Oral presentation, American Association for Dental Research Meetings, Washington DC. 03/2010.
2. “A Comparison Of Statistical Methods For The Study Of Etiologic Heterogeneity.” Poster presentation, Eastern North American Region of the International Biometric Society, Washington DC. 03/2017.
3. “A Comparison Of Statistical Methods For The Study Of Etiologic Heterogeneity.” Poster presentation, Society for Epidemiologic Research, Seattle, WA. 06/2017.
4. “Dimension Reduction In The Study Of Etiologic Heterogeneity.” Oral presentation, Joint Statistical Meetings, Baltimore, MD. 09/2017.
5. “Validity Of A Method For Identifying Disease Subtypes That Are Etiologically Heterogeneous.” Oral presentation, Eastern North American Region of the International Biometric Society, Atlanta, GA. 03/2018.
6. “Validity Of A Method For Identifying Disease Subtypes That Are Etiologically Heterogeneous.” Oral/poster presentation, Joint Statistical Meetings, Vancouver, Canada. 07/ 2018.
7. “Trial Design with Subpopulation Heterogeneity: What Is the Role of Real-World Evidence?” Session chair, Joint Statistical Meetings, Virtual. 08/2020.
8. “Designing Early Phase Clinical Trials With {ppseq}.” R/Medicine Conference, Virtual. 08/2021.

Teaching Activities

1. Teaching Assistant, Introduction to Biostatistics, 10 hours/week. Graduate students of The University of Minnesota, Minneapolis, MN, 2008-2010.
2. Teaching Assistant, Advanced Topics in Clinical Trials, 10 hours/week. Graduate students of The University of Minnesota, Minneapolis, MN, 2008-2010.
3. Teaching Assistant, Data Science I, 10 hours/week. Graduate students of Columbia University, New York, NY, 2017.
4. “Binary Recursive Partitioning With {rpart} and {rpart.plot}.” Masters Seminar Series, Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 1 hour tutorial, 08/2011.
5. “Conditional Survival.” Masters Seminar Series, Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 1 hour tutorial, 11/2012.

6. "Longitudinal Data Analysis." Masters Seminar Series, Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 1 hour tutorial, 07/2015.
7. "Demonstration of Utility Functions for R Markdown Reports in Word." R User Group, Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 1 hour tutorial, 12/2016.
8. "Creating Websites in R."
R User Group, Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 1 hour tutorial, 01/2018.
R-Ladies NYC Meeting, 1 hour tutorial, 02/2018.
Produced a public-facing website with resulting content at
https://www.emilyzabor.com/tutorials/rmarkdown_websites_tutorial.html.
9. "Survival Analysis in R." R Presenter Series, Memorial Sloan Kettering Cancer Center Department of Strategy & Innovation, New York, NY, 1 hour tutorial, 08/2018.
10. "Introduction to Survival Analysis," two 3-hour lectures. Masters-level biostatisticians of Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, 03/2019.
Produced a public-facing website with the resulting content at
https://www.emilyzabor.com/tutorials/survival_analysis_in_r_tutorial.html. This material has been widely used and shared for training purposes internally, nationally, and internationally. 2 hours/quarter maintaining and updating.
11. Co-Instructor, Biostatistics and Epidemiology, two 2-hour lectures. PhD students of Cleveland Clinic Lerner College of Medicine Molecular Medicine program, 05/2021.
12. Faculty Methodologist, Clinical Research Methods Journal Club, 2 hour session. Cleveland Clinic Lerner College of Medicine students, 07/2021.
13. Guest lecturer, Tools course, "Introduction to R and RStudio," 3 hour lecture. PhD students of Cleveland Clinic Lerner College of Medicine Molecular Medicine program, 07/2021.
14. Co-Instructor, Biostatistics and Epidemiology, two 2-hour lectures. PhD students of Cleveland Clinic Lerner College of Medicine Molecular Medicine program, 05/2022.
15. Faculty Methodologist, Clinical Research Methods Journal Club, 2 hour session. Cleveland Clinic Lerner College of Medicine students, 07/2022.
16. Guest lecturer, Tools course, "Introduction to R and RStudio," 3 hour lecture. PhD students of Cleveland Clinic Lerner College of Medicine Molecular Medicine program, 08/2022.

RESEARCH / GRANT SUPPORT

Current

Sponsor Agency and ID #	Cleveland Clinic Lerner Research Institute
Title	Career Development Award
Total Direct Costs Awarded	\$5000
Start-End Dates	10/2022

Completed

Sponsor Agency and ID #	National Cancer Institute
Title	SPORE in Bladder Cancer
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	25%
Percent Salary Support	25%
Total Direct Costs Awarded	\$2,299,837
Start-End Dates	08/2018-07/2019

Sponsor Agency and ID #	National Heart, Lung, and Blood Institute
Title	Investigation of the Effects of Electronic Cigarettes on Vascular Health
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	5%
Percent Salary Support	5%
Total Direct Costs Awarded	\$128,550
Start-End Dates	09/2016-08/2018

Sponsor Agency and ID #	Chanel Endowment to Fund Survivorship
Title	Body composition and the obesity paradox in renal cell carcinoma
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	3%
Percent Salary Support	3%
Total Direct Costs Awarded	\$25,941
Start-End Dates	01/2016-06/2019

Sponsor Agency and ID #	MSK Chanel Survivorship Research Grant
Title	Body composition and the obesity paradox in renal cell carcinoma
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	3%
Percent Salary Support	3%
Total Direct Costs Awarded	\$48,535
Start-End Dates	01/2016-12/2017

Sponsor Agency and ID #	National Cancer Institute
Title	Do cardiovascular risk factors modify the cardiotoxicity of lymphoma treatments?
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	12.5%
Percent Salary Support	12.5%
Total Direct Costs Awarded	\$50,000
Start-End Dates	06/2015-05/2018

Sponsor Agency and ID #	American Cancer Society
Title	Predictors of Post-diagnosis Smoking in Bladder Cancer
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	5%
Percent Salary Support	0%
Total Direct Costs Awarded	\$156,640
Start-End Dates	01/2015-12/2019

Sponsor Agency and ID #	Memorial Sloan Kettering Cancer Center Translational Kidney Cancer Research
Title	Immunohistochemical study of estrogen receptor protein expression in ccRCC
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator
Percent Effort	9%
Percent Salary Support	9%
Total Direct Costs Awarded	\$50,000
Start-End Dates	06/2014-11/2015

Sponsor Agency and ID #	National Cancer Institute
Title	Statistical strategies for Establishing Etiologic Heterogeneity of Tumors
Your Role (PI, Co-PI, Co-Investigator, etc.)	Co-Investigator

Percent Effort	40%
Percent Salary Support	40%
Total Direct Costs Awarded	\$207,500
Start-End Dates	07/2012-05/2018

BIBLIOGRAPHY

Peer Reviewed Articles

1. **Zabor, E. C.**, Klebanoff, M., Yu, K., Zhang, J., Nansel, T., Andrews, W., Schwebke, J., & Jeffcoat, M. (2010). Association between periodontal disease, bacterial vaginosis, and sexual risk behaviours. *J Clin Periodontol*, 37(10), 888-893. doi:10.1111/j.1600-051X.2010.01593.x
2. Shree, T., Olson, O. C., Elie, B. T., Kester, J. C., Garfall, A. L., Simpson, K., Bell-McGuinn, K. M., **Zabor, E. C.**, Brogi, E., & Joyce, J. A. (2011). Macrophages and cathepsin proteases blunt chemotherapeutic response in breast cancer. *Genes Dev*, 25(23), 2465-2479. doi:10.1101/gad.180331.111
3. Brader, P., Abramson, S. J., Price, A. P., Ishill, N. M., Emily, Z. C., Moskowitz, C. S., La Quaglia, M. P., & Ginsberg, M. S. (2011). Do characteristics of pulmonary nodules on computed tomography in children with known osteosarcoma help distinguish whether the nodules are malignant or benign? *J Pediatr Surg*, 46(4), 729-735. doi:10.1016/j.jpedsurg.2010.11.027
4. Moskowitz, C. S., **Zabor, E. C.**, & Jochelson, M. (2012). Breast imaging: understanding how accuracy is measured when lesions are the unit of analysis. *Breast J*, 18(6), 557-563. doi:10.1111/tbj.12009
5. Kadota, K., Colovos, C., Suzuki, K., Rizk, N. P., Dunphy, M. P., **Zabor, E. C.**, Sima, C. S., Yoshizawa, A., Travis, W. D., Rusch, V. W., & Adusumilli, P. S. (2012). FDG-PET SUVmax combined with IASLC/ATS/ERS histologic classification improves the prognostic stratification of patients with stage I lung adenocarcinoma. *Ann Surg Oncol*, 19(11), 3598-3605. doi:10.1245/s10434-012-2414-3
6. Kadota, K., Suzuki, K., Kachala, S. S., **Zabor, E. C.**, Sima, C. S., Moreira, A. L., Yoshizawa, A., Riely, G. J., Rusch, V. W., Adusumilli, P. S., & Travis, W. D. (2012). A grading system combining architectural features and mitotic count predicts recurrence in stage I lung adenocarcinoma. *Mod Pathol*, 25(8), 1117-1127. doi:10.1038/modpathol.2012.58
7. Begg, C. B., & **Zabor, E. C.** (2012). Detecting and exploiting etiologic heterogeneity in epidemiologic studies. *Am J Epidemiol*, 176(6), 512-518. doi:10.1093/aje/kws128
8. Abramson, D. H., Marr, B. P., Dunkel, I. J., Brodie, S., **Zabor, E. C.**, Driscoll, S. J., & Gobin, Y. P. (2012). Intra-arterial chemotherapy for retinoblastoma in eyes with vitreous and/or subretinal seeding: 2-year results. *Br J Ophthalmol*, 96(4), 499-502. doi:10.1136/bjophthalmol-2011-300498
9. **Zabor, E. C.**, Gonen, M., Chapman, P. B., & Panageas, K. S. (2013). Dynamic prognostication using conditional survival estimates. *Cancer*, 119(20), 3589-3592. doi:10.1002/cncr.28273
10. **Zabor, E. C.**, Li, Y., Thornton, L. M., Shuman, M. R., Bulik, C. M., Lichtenstein, P., Pedersen, N. L., Sullivan, P. F., & Furberg, H. (2013). Initial reactions to tobacco use and risk of future regular use. *Nicotine Tob Res*, 15(2), 509-517. doi:10.1093/ntr/nts180
11. Weiss, M. J., Ito, H., Araujo, R. L., **Zabor, E. C.**, Gonen, M., D'Angelica, M. I., Allen, P. J., DeMatteo, R. P., Fong, Y., Blumgart, L. H., & Jarnagin, W. R. (2013). Hepatic pedicle clamping during hepatic resection for colorectal liver metastases: no impact on survival or hepatic recurrence. *Ann Surg Oncol*, 20(1), 285-294. doi:10.1245/s10434-012-2583-0
12. Rink, M., **Zabor, E. C.**, Furberg, H., Xylinas, E., Ehdaie, B., Novara, G., Babjuk, M., Pycha, A., Lotan, Y., Trinh, Q. D., Chun, F. K., Lee, R. K., Karakiewicz, P. I., Fisch, M., Robinson, B. D., Scherr, D. S., & Shariat, S. F. (2013). Impact of smoking and smoking cessation on outcomes in bladder cancer patients treated with radical cystectomy. *Eur Urol*, 64(3), 456-464. doi:10.1016/j.eururo.2012.11.039
13. Rink, M., Furberg, H., **Zabor, E. C.**, Xylinas, E., Babjuk, M., Pycha, A., Lotan, Y., Karakiewicz, P. I., Novara, G., Robinson, B. D., Montorsi, F., Chun, F. K., Scherr, D. S., & Shariat, S. F. (2013). Impact of smoking and smoking cessation on oncologic outcomes in primary non-muscle-invasive bladder cancer. *Eur Urol*, 63(4), 724-732. doi:10.1016/j.eururo.2012.08.025
14. Ridge, C. A., Huang, J., Cardoza, S., **Zabor, E. C.**, Moskowitz, C. S., Zakowski, M. F., & Ginsberg, M. S. (2013). Comparison of multiplanar reformatted CT lung tumor measurements to axial tumor measurement alone: impact on maximal tumor dimension and T stage. *AJR Am J Roentgenol*, 201(5), 959-963. doi:10.2214/ajr.12.10033
15. Pannu, H. K., Ma, W., **Zabor, E. C.**, Moskowitz, C. S., Barakat, R. R., & Hricak, H. (2013). Enhancement of ovarian malignancy on clinical contrast enhanced MRI studies. *ISRN Obstet Gynecol*, 2013, 979345.

doi:10.1155/2013/979345

16. McErlean, A., Panicek, D. M., **Zabor, E. C.**, Moskowitz, C. S., Bitar, R., Motzer, R. J., Hricak, H., & Ginsberg, M. S. (2013). Intra- and interobserver variability in CT measurements in oncology. *Radiology*, 269(2), 451-459. doi:10.1148/radiol.13122665
17. McErlean, A., Huang, J., **Zabor, E. C.**, Moskowitz, C. S., & Ginsberg, M. S. (2013). Distinguishing benign thymic lesions from early-stage thymic malignancies on computed tomography. *J Thorac Oncol*, 8(7), 967-973. doi:10.1097/JTO.0b013e3182904bc2
18. Lefkowitz, R. A., Landa, J., Hwang, S., **Zabor, E. C.**, Moskowitz, C. S., Agaram, N. P., & Panicek, D. M. (2013). Myxofibrosarcoma: prevalence and diagnostic value of the "tail sign" on magnetic resonance imaging. *Skeletal Radiol*, 42(6), 809-818. doi:10.1007/s00256-012-1563-6
19. Iyer, G., Al-Ahmadie, H., Schultz, N., Hanrahan, A. J., Ostrovnaya, I., Balar, A. V., Kim, P. H., Lin, O., Weinhold, N., Sander, C., **Zabor, E. C.**, Janakiraman, M., Garcia-Grossman, I. R., Heguy, A., Viale, A., Bochner, B. H., Reuter, V. E., Bajorin, D. F., Milowsky, M. I., Taylor, B. S., & Solit, D. B. (2013). Prevalence and co-occurrence of actionable genomic alterations in high-grade bladder cancer. *J Clin Oncol*, 31(25), 3133-3140. doi:10.1200/jco.2012.46.5740
20. Hakimi, A. A., Furberg, H., **Zabor, E. C.**, Jacobsen, A., Schultz, N., Ciriello, G., Mikkilineni, N., Fiegoli, B., Kim, P. H., Voss, M. H., Shen, H., Laird, P. W., Sander, C., Reuter, V. E., Motzer, R. J., Hsieh, J. J., & Russo, P. (2013). An epidemiologic and genomic investigation into the obesity paradox in renal cell carcinoma. *J Natl Cancer Inst*, 105(24), 1862-1870. doi:10.1093/jnci/djt310
21. Ehdaie, B., Furberg, H., **Zabor, E. C.**, Ostroff, J. S., Shariat, S. F., Bochner, B. H., Coleman, J. A., & Dalbagni, G. (2013). Impact of smoking status at diagnosis on disease recurrence and death in upper tract urothelial carcinoma. *BJU Int*, 111(4), 589-595. doi:10.1111/j.1464-410X.2012.11260.x
22. Begg, C. B., **Zabor, E. C.**, Bernstein, J. L., Bernstein, L., Press, M. F., & Seshan, V. E. (2013). A conceptual and methodological framework for investigating etiologic heterogeneity. *Stat Med*, 32(29), 5039-5052. doi:10.1002/sim.5902
23. Sfakianos, J. P., Hakimi, A. A., Kim, P. H., **Zabor, E. C.**, Mano, R., Bernstein, M., Karellas, M., & Russo, P. (2014). Outcomes in patients undergoing nephrectomy for renal cancer on chronic anticoagulation therapy. *Eur J Surg Oncol*, 40(12), 1700-1705. doi:10.1016/j.ejso.2014.04.010
24. Mano, R., Hakimi, A. A., **Zabor, E. C.**, Bury, M. A., Donati, O. F., Karlo, C. A., Bazzi, W. M., Furberg, H., & Russo, P. (2014). Association between visceral and subcutaneous adiposity and clinicopathological outcomes in non-metastatic clear cell renal cell carcinoma. *Can Urol Assoc J*, 8(9-10), E675-680. doi:10.5489/cuaj.1979
25. Lubetkin, E. I., **Zabor, E. C.**, Brennessel, D., Kemeny, M. M., & Hay, J. L. (2014). Beyond demographics: differences in patient activation across new immigrant, diverse language subgroups. *J Community Health*, 39(1), 40-49. doi:10.1007/s10900-013-9738-1
26. Hayes, S. A., Soff, G. A., **Zabor, E. C.**, Moskowitz, C. S., Liu, C. C., & Ginsberg, M. S. (2014). Clinical consequences of an indeterminate CT pulmonary angiogram in cancer patients. *Clin Imaging*, 38(5), 637-640. doi:10.1016/j.clinimag.2014.04.015
27. Ehdaie, B., Furberg, H., **Zabor, E. C.**, Hakimi, A. A., & Russo, P. (2014). Comprehensive assessment of the impact of cigarette smoking on survival of clear cell kidney cancer. *J Urol*, 191(3), 597-602. doi:10.1016/j.juro.2013.08.081
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Peer Reviewed Articles, Under Review

1. **Zabor, E. C.**, & Eaton, A. A. (Under review). Using the estimand framework to address intercurrent events in oncology clinical trials: examples from disruptions due to the COVID-19 pandemic.

Invited, Non-Peer Reviewed

1. **Zabor, E. C.** (2018). ASO Author Reflections: Careful Development and Thoughtful Interpretation are Needed when Developing Online Prognostic Tools. *Ann Surg Oncol*, 25(Suppl 3), 916-917. doi:10.1245/s10434-018-6987-3
2. **Zabor, E. C.** (2021). Comment on "Age Conditional Probability of Ocular and Ocular Adnexal Malignancies". *Ocul Oncol Pathol*, 7(1), 74-75. doi:10.1159/000512031

Software / Application Development

1. **Zabor, E. C.** ezfun: R package to generate tables for clinical projects for use in word R Markdown files, <https://github.com/zabore/ezfun>. R package primarily intended for personal use.
2. **Zabor, E. C.** and Gönen, M. condsurv: R package for conditional survival analysis, <https://github.com/zabore/condsurv>. R package.
3. **Zabor, E. C.** riskclustr: Functions to Study Etiologic Heterogeneity. R package version 0.3. <https://cran.r-project.org/web/packages/riskclustr/>.
4. Sjöberg, D. D., Hannum, M., Whiting, K., & **Zabor, E. C.** (2020). gtsummary: Presentation-Ready Data Summary and Analytic Result Tables. R package version 1.3.4. <https://CRAN.R-project.org/package=gtsummary>.
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Letters

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