

# **CURRICULUM VITAE FOR CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE**

**JANUARY 24, 2022**

## **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
Office Phone	216-445-9419
Office Email	zabore2@ccf.org

## **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

### **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

### **Advisory Groups**

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

## **COMMITTEE SERVICE**

### **Cleveland Clinic**

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

Committee Name / Role	2 <sup>nd</sup> 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
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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.

##### **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.

#### **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.

#### **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](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](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. 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.

## **RESEARCH / GRANT SUPPORT**

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	08/2018-07/2023

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

**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
28. Do, R. K., Katz, S. S., Gollub, M. J., Li, J., LaFemina, J., **Zabor, E. C.**, Moskowitz, C. S., Klimstra, D. S., & Allen, P. J. (2014). Interobserver agreement for detection of malignant features of intraductal papillary mucinous neoplasms of the pancreas on MDCT. *AJR Am J Roentgenol*, 203(5), 973-979. doi:10.2214/ajr.13.11490
29. Begg, C. B., Seshan, V. E., **Zabor, E. C.**, Furberg, H., Arora, A., Shen, R., Maranchie, J. K., Nielsen, M. E., Rathmell, W. K., Signoretti, S., Tamboli, P., Karam, J. A., Choueiri, T. K., Hakimi, A. A., & Hsieh, J. J. (2014). Genomic investigation of etiologic heterogeneity: methodologic challenges. *BMC Med Res Methodol*, 14, 138. doi:10.1186/1471-2288-14-138
30. Sfakianos, J. P., Cha, E. K., Iyer, G., Scott, S. N., **Zabor, E. C.**, Shah, R. H., Ren, Q., Bagrodia, A., Kim, P. H., Hakimi, A. A., Ostrovnaya, I., Ramirez, R., Hanrahan, A. J., Desai, N. B., Sun, A., Pinciroli, P., Rosenberg, J. E., Dalbagni, G., Schultz, N., Bajorin, D. F., Reuter, V. E., Berger, M. F., Bochner, B. H., Al-Ahmadie, H. A., Solit, D. B., & Coleman, J. A. (2015). Genomic Characterization of Upper Tract Urothelial Carcinoma. *Eur Urol*, 68(6), 970-977. doi:10.1016/j.eururo.2015.07.039
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#### **Peer Reviewed Articles, Under Review**

1. **Zabor, E. C.**, Kaizer, A. M., Garrett-Mayer, E., & Hobbs, B. P. (Under review). Optimal Sequential Predictive Probability Designs for Early Phase Oncology Expansion Cohorts.
2. Sittenfeld, S. M. C., **Zabor, E. C.**, Hamilton, S. N., Kuerer, H. M., El-Tamer, M., Naoum, G. E., Truong, P. T., Nichol, A., Smith, B. D., Woodward, W. A., Moo, T. A., Powell, S. N., Shah, C. S., Taghian, A. G., Abu-Gheida, I., & Tendulkar, R. D. (Under review). A Multi-institutional Prediction Model to Estimate the Risk of Recurrence and Mortality after Mastectomy for T1-2N1 Breast Cancer.
3. Singh, A. D., Raval, V., Davanzo, J., & **Zabor, E. C.** (Under review). Small Choroidal Melanoma: Outcomes Following Active Surveillance vs Immediate Treatment.
4. Kaizer, A. M., **Zabor, E. C.**, Nie, L., & Hobbs, B. P. (Under review). Bayesian and Frequentist Approaches to Sequential Monitoring for Futility in Oncology Basket Trials: A Comparison of Simon's Two-Stage Design and Bayesian Predictive Probability Monitoring with Information Sharing Across Baskets.

#### **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>.
5. **Zabor, E. C.**, Hobbs, B. P., & Kane, M. J. (2021). ppseq: Design Clinical Trials using Sequential Predictive Probability Monitoring. R package version 0.1.1. <https://cran.r-project.org/web/packages/ppseq/index.html>.

### **Letters**

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2. Teo, M. Y., Bambury, R. M., **Zabor, E. C.**, Jordan, E., Al-Ahmadie, H., Boyd, M. E., Bouvier, N., Mullane, S. A., Cha, E. K., Roper, N., Ostrovnaya, I., Hyman, D. M., Bochner, B. H., Arcila, M. E., Solit, D. B., Berger, M. F., Bajorin, D. F., Bellmunt, J., Iyer, G., & Rosenberg, J. E. (2018). Commentary on "DNA damage response and repair gene alterations are associated with improved survival in patients with platinum-treated advanced urothelial carcinoma." *Urol Oncol*, 36(7), 345-346. doi:10.1016/j.urolonc.2018.05.011
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4. Moo, T. A., Edelweiss, M., Hajiyeva, S., Stempel, M., Raiss, M., **Zabor, E. C.**, Barrio, A. V., & Morrow, M. (2020). Correction to: Is Low-Volume Disease in the Sentinel Node After Neoadjuvant Chemotherapy an Indication for Axillary Dissection? *Ann Surg Oncol*, 27(Suppl 3), 966. doi:10.1245/s10434-020-08273