

Emily C. Zabor

Curriculum Vitae

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Education

- 2013–2019 **Doctor of Public Health**, *Columbia University*, New York, NY, Biostatistics.
Dissertation topic: Statistical methods for the study of etiologic heterogeneity
Advisors: Dr. Colin Begg and Dr. Shuang Wang
- 2008–2010 **Master of Science**, *The University of Minnesota*, Minneapolis, MN, Biostatistics.
- 1999–2003 **Bachelor of Arts**, *Grinnell College*, Grinnell, IA, Anthropology.

Professional positions

- 2019–Present **Assistant Staff**, CLEVELAND CLINIC, Cleveland, OH.
Department of Quantitative Health Sciences & Taussig Cancer Institute
- 2018–2019 **Senior Research Biostatistician**, MEMORIAL SLOAN KETTERING CANCER CENTER, New York, NY.
Department of Epidemiology & Biostatistics
- 2015–2017 **Research Biostatistician II**, MEMORIAL SLOAN KETTERING CANCER CENTER, New York, NY.
Department of Epidemiology & Biostatistics
- 2012–2015 **Research Biostatistician I**, MEMORIAL SLOAN KETTERING CANCER CENTER, New York, NY.
Department of Epidemiology & Biostatistics
- 2010–2012 **Assistant Research Biostatistician**, MEMORIAL SLOAN KETTERING CANCER CENTER, New York, NY.
Department of Epidemiology & Biostatistics

Academic positions

- 2020–Present **Assistant Professor of Medicine**, CLEVELAND CLINIC LERNER COLLEGE OF MEDICINE AT CASE WESTERN RESERVE UNIVERSITY, Cleveland, OH.
Department of Medicine
- 2016–2017 **Adjunct Professor**, HUNTER COLLEGE, New York, NY.
Fundamentals of Biostatistics

Other employment

- Fall 2017 **Teaching Assistant**, COLUMBIA UNIVERSITY, New York, NY.
Data Science I
- 2009 **Summer Intern in Biomedical Research**, NATIONAL INSTITUTES OF HEALTH, Bethesda, MD.
Eunice Kennedy Shriver National Institute for Child Health & Human Development

- 2009–2010 **Research Assistant**, THE UNIVERSITY OF MINNESOTA, Minneapolis, MN.
Coordinating Centers for Biometric Research
- 2008–2010 **Teaching Assistant**, THE UNIVERSITY OF MINNESOTA, Minneapolis, MN.
Introduction to Biostatistics
Advanced Topics in Clinical Trials
- 2008–2009 **Research Assistant**, THE UNIVERSITY OF MINNESOTA, Minneapolis, MN.
Division of Health Policy and Management
- 2006–2008 **Account Coordinator**, US BANK, Minneapolis, MN.
Corporate Payment Systems
- 2003–2006 **Volunteer**, US PEACE CORPS, Ghana, West Africa.
Natural Resources for Livelihood Sustainability Program

Methodologic publications

1. **Zabor, E. C.**, Kane, M. J., Roychoudhury, S., Nie, L., & Hobbs, B. P. (Under review). Bayesian Basket Trial Design with False Discovery Rate Control.
2. **Zabor, E. C.**, Seshan, S.E., Wang, S., & Begg, C. B. (Under review). Validity of a method for identifying disease subtypes that are etiologically heterogeneous.
3. **Zabor, E. C.**, Kaizer, A. M., & Hobbs, B. P. (2020). Randomized Controlled Trials. *Chest*, 158(1s), S79-s87. doi:10.1016/j.chest.2020.03.013
4. **Zabor, E. C.** (2019). riskclustr: Functions to Study Etiologic Heterogeneity. *Journal of Open Source Software*, 4(35), 1269.
5. **Zabor, E. C.**, & Begg, C. B. (2017). A comparison of statistical methods for the study of etiologic heterogeneity. *Stat Med*, 36(25), 4050-4060.
6. Mauguen, A., **Zabor, E. C.**, Thomas, N. E., Berwick, M., Seshan, V. E., & Begg, C. B. (2017). Defining Cancer Subtypes With Distinctive Etiologic Profiles: An Application to the Epidemiology of Melanoma. *J Am Stat Assoc*, 112(517), 54-63.
7. Begg, C. B., Seshan, V. E., **Zabor, E. C.**, Furberg, H., Arora, A., Shen, R., ... Hsieh, J. J. (2014). Genomic investigation of etiologic heterogeneity: methodologic challenges. *BMC Med Res Methodol*, 14, 138.
8. **Zabor, E. C.**, Gonen, M., Chapman, P. B., Panageas, K. S. (2013). Dynamic prognostication using conditional survival estimates. *Cancer*, 119(20), 3589-3592.
9. 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.
10. Begg, C. B., **Zabor, E. C.** (2012). Detecting and exploiting etiologic heterogeneity in epidemiologic studies. *Am J Epidemiol*, 176(6), 512-518.

Collaborative publications

1. Walsh, S. M., **Zabor, E. C.**, Flynn, J., Stempel, M., Morrow, M., & Gemignani, M. L. (2020). Breast cancer in young black women. *Br J Surg*, 107(6), 677-686. doi:10.1002/bjs.11401
2. Vickers, A. J., Assel, M. J., Sjoberg, D. D., Qin, R., Zhao, Z., Koyama, T., Botchway A., Wang X., Huo D., Kattan M., **Zabor E.C.**, & Harrell, F. (2020). Guidelines for Reporting of Figures and Tables for Clinical Research in Urology. *BJU Int*, 126(1), 14-25. doi:10.1111/bju.15102
3. Vickers, A. J., Assel, M. J., Sjoberg, D. D., Qin, R., Zhao, Z., Koyama, T., Botchway A., Wang X., Huo D., Kattan M., **Zabor E.C.**, & Harrell, F. (2020). Guidelines for Reporting of Figures and Tables for Clinical Research in Urology. *Eur Urol*, 78(1), 97-109. doi:10.1016/j.eururo.2020.04.048

4. Vickers, A. J., Assel, M. J., Sjoberg, D. D., Qin, R., Zhao, Z., Koyama, T., Botchway A., Wang X., Huo D., Kattan M., **Zabor E.C.**, & Harrell, F. (2020). Guidelines for Reporting of Figures and Tables for Clinical Research in Urology. *Urology*, 142, 1-13. doi:10.1016/j.urology.2020.05.002
5. Vickers, A. J., Assel, M. J., Sjoberg, D. D., Qin, R., Zhao, Z., Koyama, T., Botchway A., Wang X., Huo D., Kattan M., **Zabor E.C.**, & Harrell, F. (2020). Guidelines for Reporting of Figures and Tables for Clinical Research in Urology. *J Urol*, 204(1), 121-133. doi:10.1097/ju.0000000000001096
6. Valero, M. G., Muhsen, S., Moo, T. A., **Zabor, E. C.**, Stempel, M., Pusic, A., Gemignani M.L., Morrow M., & Sacchini, V. S. (2020). Increase in Utilization of Nipple-Sparing Mastectomy for Breast Cancer: Indications, Complications, and Oncologic Outcomes. *Ann Surg Oncol*, 27(2), 344-351. doi:10.1245/s10434-019-07948-x
7. Valero, M. G., **Zabor, E. C.**, Park, A., Gilbert, E., Newman, A., King, T. A., & Pilewskie, M. L. (2020). The Tyrer-Cuzick Model Inaccurately Predicts Invasive Breast Cancer Risk in Women With LCIS. *Ann Surg Oncol*, 27(3), 736-740. doi:10.1245/s10434-019-07814-w
8. Valero, M. G., Moo, T. A., Muhsen, S., Zabor, E. C., Stempel, M., Pusic, A., Gemignani M.L., Morrow M., & Sacchini, V. (2020). Use of bilateral prophylactic nipple-sparing mastectomy in patients with high risk of breast cancer. *Br J Surg*. doi:10.1002/bjs.11616
9. Tadros, A. B., Moo, T. A., Stempel, M., **Zabor, E. C.**, Khan, A. J., & Morrow, M. (2020). Axillary management for young women with breast cancer varies between patients electing breast-conservation therapy or mastectomy. *Breast Cancer Res Treat*, 180(1), 197-205. doi:10.1007/s10549-019-05520-5
10. Tadros, A. B., Moo, T. A., **Zabor, E. C.**, Gillespie, E. F., Khan, A., McCormick, B., Cahlon, O., Powell, S. N., Allen, R., Jr., Morrow, M., & Braunstein, L. Z. (2020). Feasibility of Breast-Conservation Therapy and Hypofractionated Radiation in the Setting of Prior Breast Augmentation. *Pract Radiat Oncol*, 10(5), e357-e362. doi:10.1016/j.prro.2020.01.003
11. Raghunathan, N. J., **Zabor, E. C.**, Anderson, N., Oeffinger, K., Tonorezos, E. S., & Korenstein, D. (2020). Communicating cardiovascular risk to high-risk cancer survivors: a mixed-methods pilot study of a statin risk communication tool. *J Cancer Surviv*, 14(4), 417-423. doi:10.1007/s11764-020-00860-4
12. Niehoff, N. M., **Zabor, E. C.**, Satagopan, J., Widell, A., O'Brien, T. R., Zhang, M., Rothman, N., Grimsrud, T. K., Van Den Eeden, S. K., & Engel, L. S. (2020). Pre-diagnostic serum polychlorinated biphenyl concentrations and primary liver cancer: A case-control study nested within two prospective cohorts. *Environ Res*, 187, 109690. doi:10.1016/j.envres.2020.109690
13. Moo, T. A., Edelweiss, M., Hajiyevea, 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*. doi:10.1245/s10434-020-08273-4
14. Minami, C. A., **Zabor, E. C.**, Gilbert, E., Newman, A., Park, A., Jochelson, M. S., King, T. A., & (2020). Do Body Mass Index and Breast Density Impact Cancer Risk Among Women with Lobular Carcinoma In Situ? *Ann Surg Oncol*, 27(6), 1844-1851. doi:10.1245/s10434-019-08126-9
15. Iyer, G., Tully, C. M., **Zabor, E. C.**, Bochner, B. H., Dalbagni, G., Herr, H. W., Donat, S. M., Russo, P., Ostrovnaya, I., Regazzi, A. M., Milowsky, M. I., Rosenberg, J. E., & Bajorin, D. F. (2020). Neoadjuvant Gemcitabine-Cisplatin Plus Radical Cystectomy-Pelvic Lymph Node Dissection for Muscle-invasive Bladder Cancer: A 12-year Experience. *Clin Genitourin Cancer*. doi:10.1016/j.clgc.2020.02.014
16. Crown, A., Muhsen, S., **Zabor, E. C.**, Sevilimedu, V., Kelvin, J., Goldfarb, S. B., &

- Gemignani, M. L. (2020). Does Use of Neoadjuvant Chemotherapy Affect the Decision to Pursue Fertility Preservation Options in Young Women with Breast Cancer? *Ann Surg Oncol*. doi:10.1245/s10434-020-08883-y
17. Christian, N., **Zabor, E. C.**, Cassidy, M., Flynn, J., Morrow, M., & Gemignani, M. L. (2020). Contralateral Prophylactic Mastectomy Use After Neoadjuvant Chemotherapy. *Ann Surg Oncol*, 27(3), 743-749. doi:10.1245/s10434-019-08038-8
 18. Brierley, C. K., **Zabor, E. C.**, Komrokji, R. S., DeZern, A. E., Roboz, G. J., Brunner, A. M., Stone, R. M., Sekeres, M. A., & Steensma, D. P. (2020). Low participation rates and disparities in participation in interventional clinical trials for myelodysplastic syndromes. *Cancer*. doi:10.1002/cncr.33105
 19. Walsh, S. M., Brennan, S. B., **Zabor, E. C.**, Rosenberger, L. H., Stempel, M., Lebron-Zapata, L., & Gemignani, M. L. (2019). Does Breast Density Increase the Risk of Re-excision for Women with Breast Cancer Having Breast-Conservation Therapy? *Ann Surg Oncol*, 26(13), 4246-4253. doi:10.1245/s10434-019-07647-7
 20. Walsh, S. M., **Zabor, E. C.**, Stempel, M., Morrow, M., & Gemignani, M. L. (2019). Does race predict survival for women with invasive breast cancer? *Cancer*, 125(18), 3139-3146. doi:10.1002/cncr.32296
 21. Van Zee, K. J., **Zabor, E. C.**, Di Donato, R., Harmon, B., Fox, J., Morrow, M., Cody, H. S., 3rd, & Fineberg, S. A. (2019). Comparison of Local Recurrence Risk Estimates After Breast-Conserving Surgery for DCIS: DCIS Nomogram Versus Refined Oncotype DX Breast DCIS Score. *Ann Surg Oncol*, 26(10), 3282-3288. doi:10.1245/s10434-019-07537-y
 22. Valero, M. G., **Zabor, E. C.**, Park, A., Gilbert, E., Newman, A., King, T. A., & Pilewskie, M. L. (2019). The Tyrer-Cuzick Model Inaccurately Predicts Invasive Breast Cancer Risk in Women With LCIS. *Ann Surg Oncol*. doi:10.1245/s10434-019-07814-w
 23. Spanheimer, P. M., Murray, M. P., **Zabor, E. C.**, Stempel, M., Morrow, M., Van Zee, K. J., & Barrio, A. V. (2019). Long-Term Outcomes After Surgical Treatment of Malignant/Borderline Phyllodes Tumors of the Breast. *Ann Surg Oncol*, 26(7), 2136-2143. doi:10.1245/s10434-019-07210-4
 24. Pilewskie, M., **Zabor, E. C.**, Gilbert, E., Stempel, M., Petruolo, O., Mangino, D., Robson, M., & Jochelson, M. S. (2019). Differences between screen-detected and interval breast cancers among BRCA mutation carriers. *Breast Cancer Res Treat*, 175(1), 141-148. doi:10.1007/s10549-018-05123-6
 25. Pietzak, E. J., **Zabor, E. C.**, Bagrodia, A., Armenia, J., Hu, W., Zehir, A., Funt, S., Audenet, F., Barron, D., Maamouri, N., Li, Q., Teo, M. Y., Arcila, M. E., Berger, M. F., Schultz, N., Dalbagni, G., Herr, H. W., Bajorin, D. F., Rosenberg, J. E., Al-Ahmadie, H., Bochner, B. H., Solit, D. B., & Iyer, G. (2019). Genomic Differences Between "Primary" and "Secondary" Muscle-invasive Bladder Cancer as a Basis for Disparate Outcomes to Cisplatin-based Neoadjuvant Chemotherapy. *Eur Urol*, 75(2), 231-239. doi:10.1016/j.eururo.2018.09.002
 26. Moo, T. A., Jochelson, M. S., Zabor, E. C., Stempel, M., Raiss, M., Mamtani, A., Tadros, A. B., El-Tamer, M., & Morrow, M. (2019). Is Clinical Exam of the Axilla Sufficient to Select Node-Positive Patients Who Downstage After NAC for SLNB? A Comparison of the Accuracy of Clinical Exam Versus MRI. *Ann Surg Oncol*, 26(13), 4238-4243. doi:10.1245/s10434-019-07867-x
 27. Miller, M. E., Muhsen, S., **Zabor, E. C.**, Flynn, J., Olcese, C., Giri, D., Van Zee, K. J., & Pilewskie, M. (2019). Risk of Contralateral Breast Cancer in Women with Ductal Carcinoma In Situ Associated with Synchronous Ipsilateral Lobular Carcinoma In Situ. *Ann Surg Oncol*, 26(13), 4317-4325. doi:10.1245/s10434-019-07796-9
 28. Mamtani, A., **Zabor, E. C.**, Stempel, M., & Morrow, M. (2019). Lobular Histology Does Not Predict the Need for Axillary Dissection Among ACOSOG Z0011-Eligible Breast

- Cancers. *Ann Surg Oncol*, 26(10), 3269-3274. doi:10.1245/s10434-019-07536-z
29. Mamtani, A., **Zabor, E. C.**, Rosenberger, L. H., Stempel, M., Gemignani, M. L., & Morrow, M. (2019). Was Reexcision Less Frequent for Patients with Lobular Breast Cancer After Publication of the SSO-ASTRO Margin Guidelines? *Ann Surg Oncol*, 26(12), 3856-3862. doi:10.1245/s10434-019-07751-8
 30. Mamtani, A., Nakhli, F., Downs-Canner, S., **Zabor, E. C.**, Morrow, M., King, T. A., & Van Zee, K. J. (2019). Impact of Age on Locoregional and Distant Recurrence After Mastectomy for Ductal Carcinoma In Situ With or Without Microinvasion. *Ann Surg Oncol*, 26(13), 4264-4271. doi:10.1245/s10434-019-07693-1
 31. Grabenstetter, A., Moo, T. A., Hajiyeva, S., Schuffler, P. J., Khattar, P., Friedlander, M. A., McCormack, M. A., Raiss, M., **Zabor, E. C.**, Barrio, A., Morrow, M., & Edelweiss, M. (2019). Accuracy of Intraoperative Frozen Section of Sentinel Lymph Nodes After Neoadjuvant Chemotherapy for Breast Carcinoma. *Am J Surg Pathol*, 43(10), 1377-1383. doi:10.1097/pas.0000000000001311
 32. Flanagan, M. R., **Zabor, E. C.**, Stempel, M., Mangino, D. A., Morrow, M., & Pilewskie, M. L. (2019). Chemoprevention Uptake for Breast Cancer Risk Reduction Varies by Risk Factor. *Ann Surg Oncol*, 26(7), 2127-2135. doi:10.1245/s10434-019-07236-8
 33. Flanagan, M. R., **Zabor, E. C.**, Romanoff, A., Fuzesi, S., Stempel, M., Mehrara, B. J., Morrow, M., Pusic, A. L., & Gemignani, M. L. (2019). A Comparison of Patient-Reported Outcomes After Breast-Conserving Surgery and Mastectomy with Implant Breast Reconstruction. *Ann Surg Oncol*, 26(10), 3133-3140. doi:10.1245/s10434-019-07548-9
 34. Engel, L. S., **Zabor, E. C.**, Satagopan, J., Widell, A., Rothman, N., O'Brien, T. R., Zhang, M., Van Den Eeden, S. K., & Grimsrud, T. K. (2019). Prediagnostic serum organochlorine insecticide concentrations and primary liver cancer: A case-control study nested within two prospective cohorts. *Int J Cancer*, 145(9), 2360-2371. doi:10.1002/ijc.32175
 35. Downs-Canner, S., **Zabor, E. C.**, Wind, T., Cobovic, A., McCormick, B., Morrow, M., & Heerdt, A. (2019). Radiation Therapy After Breast-Conserving Surgery in Women 70 Years of Age and Older: How Wisely Do We Choose? *Ann Surg Oncol*, 26(4), 969-975. doi:10.1245/s10434-018-07151-4
 36. Christian, N., Zabor, E. C., Cassidy, M., Flynn, J., Morrow, M., & Gemignani, M. L. (2019). Contralateral Prophylactic Mastectomy Use After Neoadjuvant Chemotherapy. *Ann Surg Oncol*. doi:10.1245/s10434-019-08038-8
 37. Benefield, H. C., **Zabor, E. C.**, Shan, Y., Allott, E. H., Begg, C. B., & Troester, M. A. (2019). Evidence for Etiologic Subtypes of Breast Cancer in the Carolina Breast Cancer Study. *Cancer Epidemiol Biomarkers Prev*, 28(11), 1784-1791. doi:10.1158/1055-9965.Epi-19-0365
 38. Baker, J. L., Muhsen, S., **Zabor, E. C.**, Stempel, M., & Gemignani, M. L. (2019). Does Lymph Node Status Prior to Neoadjuvant Chemotherapy Influence the Number of Sentinel Nodes Removed? *Ann Surg Oncol*, 26(2), 336-342. doi:10.1245/s10434-018-7004-6
 39. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., Delfino, K., Fan, Y., Zhao, Z., Koyama, T., Hollenbeck, B., Qin, R., Zahnd, W., **Zabor, E. C.**, Kattan, M. W., & Vickers, A. J. (2019). Guidelines for Reporting of Statistics for Clinical Research in Urology. *J Urol*, 201(3), 595-604. doi:10.1097/ju.0000000000000001
 40. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., Delfino, K., Fan, Y., Zhao, Z., Koyama, T., Hollenbeck, B., Qin, R., Zahnd, W., **Zabor, E. C.**, Kattan, M. W., & Vickers, A. J. (2019). Guidelines for Reporting of Statistics for Clinical Research in Urology. *Eur Urol*, 75(3), 358-367. doi:10.1016/j.eururo.2018.12.014
 41. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., Delfino, K., Fan, Y., Zhao, Z., Koyama, T., Hollenbeck, B., Qin, R., Zahnd, W., **Zabor, E. C.**, Kattan, M. W., & Vickers, A. J. (2019). Guidelines for reporting of statistics for clinical research in urology.

BJU Int, 123(3), 401-410. doi:10.1111/bju.14640

42. **Zabor, E. C.**, Coit, D., Gershenwald, J. E., McMasters, K. M., Michaelson, J. S., Stromberg, A. J., & Panageas, K. S. (2018). Variability in Predictions from Online Tools: A Demonstration Using Internet-Based Melanoma Predictors. *Ann Surg Oncol*, 25(8), 2172-2177.
43. **Zabor, E. C.**, Furberg, H., Lee, B., Campbell, S., Lane, B. R., Thompson, R. H., Antonio, E. C., Noyes, S. L., Zaid, H., Jaimes, E. A., & Russo, P. (2018). Long-Term Renal Function Recovery following Radical Nephrectomy for Kidney Cancer: Results from a Multicenter Confirmatory Study. *J Urol*, 199(4), 921-926.
44. Winer, A. G., **Zabor, E. C.**, Vacchio, M. J., Hakimi, A. A., Russo, P., Coleman, J. A., & Jaimes, E. A. (2018). The Effect of Patient and Surgical Characteristics on Renal Function After Partial Nephrectomy. *Clin Genitourin Cancer*, 16(3), 191-196.
45. Silk, M. T., Mikkilineni, N., Silk, T. C., **Zabor, E. C.**, Ostrovnaya, I., Hakimi, A. A., Hsieh, J. J., Ziv, E., Rekhtman, N., Solomon, S. B., & Durack, J. C. (2018). Prospective Evaluation of Unprocessed Core Needle Biopsy DNA and RNA Yield from Lung, Liver, and Kidney Tumors: Implications for Cancer Genomics. *Anal Cell Pathol (Amst)*, 2018, 2898962.
46. Scott, J. M., **Zabor, E. C.**, Schwitzer, E., Koelwyn, G. J., Adams, S. C., Nilsen, T. S., Moskowitz, C. S., Matsoukas, K., Iyengar, N. M., Dang, C. T., & Jones, L. W. (2018). Efficacy of Exercise Therapy on Cardiorespiratory Fitness in Patients With Cancer: A Systematic Review and Meta-Analysis. *J Clin Oncol*, 36(22), 2297-2305.
47. Romanoff, A., **Zabor, E. C.**, Stempel, M., Sacchini, V., Pusic, A., & Morrow, M. (2018). A Comparison of Patient-Reported Outcomes After Nipple-Sparing Mastectomy and Conventional Mastectomy with Reconstruction. *Ann Surg Oncol*, 25(10), 2909-2916.
48. Romanoff, A., **Zabor, E. C.**, Petruolo, O., Stempel, M., El-Tamer, M., Morrow, M., & Barrio, A. V. (2018). Does nonmetastatic inflammatory breast cancer have a worse prognosis than other nonmetastatic T4 cancers? *Cancer*, 124(22), 4314-4321.
49. Moo, T. A., Edelweiss, M., Hajiyeva, S., Stempel, M., Raiss, M., **Zabor, E. C.**, Barrio, A., & Morrow, M. (2018). Is Low-Volume Disease in the Sentinel Node After Neoadjuvant Chemotherapy an Indication for Axillary Dissection? *Ann Surg Oncol*, 25(6), 1488-1494.
50. Lee, B. H., **Zabor, E. C.**, Tennenbaum, D., Furberg, H., Benfante, N., Coleman, J. A., Jaimes, E. A., & Russo, P. (2018). Renal function recovery after radical nephroureterectomy for upper tract urothelial carcinoma. *World J Urol*, 36(2), 257-263.
51. Francis, J. H., Levin, A. M., **Zabor, E. C.**, Gobin, Y. P., & Abramson, D. H. (2018). Ten-year experience with ophthalmic artery chemosurgery: Ocular and recurrence-free survival. *PLoS One*, 13(5), e0197081.
52. Cronin, P. A., Romanoff, A., **Zabor, E. C.**, Stempel, M., Eaton, A., Smyth, L. M., Ho, A. Y., Morrow, M., El-Tamer, M., & Gemignani, M. L. (2018). Influence of Age on the Clinical Outcome of Breast Cancer for Men and the Development of Second Primary Cancers. *Ann Surg Oncol*, 25(13), 3858-3866.
53. Cassidy, M. R., **Zabor, E. C.**, Stempel, M., Mehrara, B., & Gemignani, M. L. (2018). Does response to neo-adjuvant chemotherapy impact breast reconstruction? *Breast J*, 24(4), 567-573.
54. Weber, J. J., Jochelson, M. S., Eaton, A., **Zabor, E. C.**, Barrio, A. V., Gemignani, M. L., Pilewskie, M., Van Zee, K. J., Morrow, M., & El-Tamer, M. (2017). MRI and Prediction of Pathologic Complete Response in the Breast and Axilla after Neoadjuvant Chemotherapy for Breast Cancer: MRI and Pathologic Complete Response. *J Am Coll Surg*, 225(6), 740-746.
55. 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. (2017). DNA Damage Response and Repair Gene Alterations Are Associated with Improved Survival in Patients with Platinum-Treated Advanced Urothelial Carcinoma. *Clin Cancer Res*, 23(14), 3610-3618.
56. Schwitzer, E., Orlow, I., **Zabor, E. C.**, Begg, C. B., Berwick, M., Thomas, N. E., Kanetsky, P. A., & Jones, L. W. (2017). No association between prediagnosis exercise and survival in patients with high-risk primary melanoma: A population-based study. *Pigment Cell Melanoma Res*, 30(4), 424-427.
 57. Salz, T., **Zabor, E. C.**, de Nully Brown, P., Dalton, S. O., Raghunathan, N. J., Matasar, M. J., Steingart, R., Vickers, A. J., Svenssen Munksgaard, P., Oeffinger, K. C., & Johansen, C. (2017). Preexisting Cardiovascular Risk and Subsequent Heart Failure Among Non-Hodgkin Lymphoma Survivors. *J Clin Oncol*, 35(34), 3837-3843.
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Other publications

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.
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.
3. Begg, C. B., Seshan, V. E., & **Zabor, E. C.** (2018). RE: "A MULTINOMIAL REGRESSION APPROACH TO MODEL OUTCOME HETEROGENEITY". *Am J Epidemiol*, 187(5), 1129-1130.
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R Packages

- Daniel D. Sjoberg, Margie Hannum, Karissa Whiting and **Emily C. Zabor** (2020). gtsummary: Presentation-Ready Data Summary and Analytic Result Tables. R package version 1.3.4. <https://CRAN.R-project.org/package=gtsummary>.
- **Emily C. Zabor**. riskclustr: Functions to Study Etiologic Heterogeneity. R package version 0.3. <https://cran.r-project.org/web/packages/riskclustr/>.
- condsurv: R package for conditional survival analysis, <https://github.com/zabore/condsurv>. *Note that this package is currently under development.*
- ezfun: R package to generate tables for clinical projects for use in word R Markdown files, <https://github.com/zabore/ezfun>. *Note that this package is primarily for personal use.*

R Tutorials

- "Survival Analysis in R." Memorial Sloan Kettering Cancer Center Department of Strategy & Innovation R Presenter Series. August 30, 2018. Materials available online at http://www.emilyzabor.com/tutorials/survival_analysis_in_r_tutorial.html
- "Creating Websites in R." Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics R User Group. January 23, 2018. Re-presented at the R-Ladies NYC Meetup on February 15, 2018. Materials available online at http://www.emilyzabor.com/tutorials/rmarkdown_websites_tutorial.html
- "Demonstration of utility functions for R Markdown reports in Word." Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics R User Group. December 6, 2016.
- "Longitudinal data analysis." Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics Masters Seminar Series. July 28, 2015.
- "Conditional survival." Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics Masters Seminar Series. November 13, 2012.
- "Binary recursive partitioning with rpart and rpart.plot." Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics Masters Seminar Series. August 23, 2011.

Presentations

Invited

- “Etiologic heterogeneity in cancer.” Cleveland Clinic Florida Cancer Grand Rounds, Weston, FL, January 3, 2020.
- “Statistical methods for the study of etiologic heterogeneity.” Memorial Sloan Kettering Cancer Center Department of Epidemiology & Biostatistics, New York, NY, December 10, 2018.
- “Statistical methods for the study of etiologic heterogeneity.” Cleveland Clinic Department of Quantitative Health Sciences, Cleveland, OH, November 16, 2018.
- “Statistical methods for the study of etiologic heterogeneity.” NYU School of Medicine Department of Population Health, Division of Biostatistics, New York, NY, October 30, 2018.
- “Validity of a method for identifying etiologically heterogeneous disease subtypes.” Mayo Clinic Department of Health Sciences Research, Rochester, MN, September 25, 2018.
- “Teaching survival analysis to clinical collaborators.” R/Medicine Conference, New Haven, CT, September 7, 2018.
- “How long will I live? The statistics behind prognosis in cancer research.” New York R Conference, New York, NY, April 21, 2018.

Contributed

- “Validity of a method for identifying disease subtypes that are etiologically heterogeneous.” Joint oral and poster presentation at the Joint Statistical Meetings, Vancouver, BC, Canada, July 31, 2018.
- “Validity of a method for identifying disease subtypes that are etiologically heterogeneous.” Eastern North American Region of the International Biometric Society, Atlanta, GA, March 27, 2018.
- “Dimension reduction in the study of etiologic heterogeneity, Oral presentation.” Joint Statistical Meetings, Baltimore, MD, August 1, 2017.
- “A comparison of statistical methods for the study of etiologic heterogeneity.” Poster presentation at the Society for Epidemiologic Research, Seattle, WA, June 20, 2017.
- “A comparison of statistical methods for the study of etiologic heterogeneity.” Poster presentation at the Eastern North American Region of the International Biometric Society, Washington DC, March 12, 2017.
- “A review of statistical methods for evaluating etiologic heterogeneity.” Third International Molecular Pathologic Epidemiology Meeting, Boston, MA, May 12, 2016.
- “Initial reactions to tobacco and risk of future regular tobacco use.” Poster presentation at the Third North American Congress of Epidemiology, Montreal, QC, Canada, June 23, 2011.
- “Association between periodontal disease, bacterial vaginosis, and sexual risk behaviours.” Oral presentation at the American Association for Dental Research Meetings, Washington DC, March 5, 2010.

Service and memberships

Intramural service

2020 Clinical Abstract Review Committee, CCF Research Day.

- 2020 Faculty Assessor, Cleveland Clinic Lerner College of Medicine Clinical Research Block Presentations.
- 2020 Search Committee, LRI Staff Biostatistician
- 2019 Statistician Contributor, 2nd Annual Advances in Early Lung Cancer Detection Conference Breakout Sessions, Cleveland Clinic.
- 2019 Faculty Assessor, Cleveland Clinic Lerner College of Medicine Clinical Research Block Presentations.
- 2018–2019 Founder and Chair, Memorial Sloan Kettering Department of Epidemiology & Biostatistics Coding Workshop. Introduced a monthly workshop with the goal of learning best practices for coding style and efficiency, through peer-review of code.
- 2016–2019 Member, Memorial Sloan Kettering Department of Epidemiology & Biostatistics R User Group

Extramural service

- 2020 Session chair, “Trial Design with Subpopulation Heterogeneity: What Is the Role of Real-World Evidence?” Joint Statistical Meetings, Virtual.
- 2020–Present Associate Editor, R Journal
- 2019–Present Member, Council on Emerging and New Statisticians, Eastern North American Region of the International Biometric Society
- 2019–Present Editorial Board, European Urology
- 2018–Present Editorial Board of Statisticians, Journal of Urology. After four years serving as an *ad hoc* statistical review, in January 2018 I joined a 10-member editorial board comprised of statisticians. In addition to performing statistical peer review, we have collaborated to establish statistical guidelines for the journal to give authors a reference when preparing manuscripts and to expedite the review process.
- 2018–Present *Ad hoc* reviewer, Journal of the American Statistical Association
- 2017–Present *Ad hoc* reviewer, Journal of Clinical Oncology
- 2016–2019 Board member, R-Ladies NYC. R-Ladies is a worldwide organization to promote gender equality in the R programming community. As a board member I assist in planning monthly meetings where women and gender minorities in our local R community present on topics related to their work in R. From January 2017–December 2018, I was the lead organizer of the quarterly R-Ladies NYC book club. In November 2018 I used R blogdown to write the R-Ladies NYC website (<http://www.rladiesnyc.org/>) and have served as the webmaster from November 2018–May 2019.
- 2013–2017 *Ad hoc* statistical reviewer, Journal of Urology

Memberships

- 2017–Present Society for Epidemiologic Research, Member
- 2015–2020 American Society of Clinical Oncology, Member
- 2011–Present Eastern North American Region of the International Biometric Society, Member
- 2010–Present American Statistical Association, Member

Honors and awards

- 2017 Travel Awardee, American Statistical Association Section on Statistics in Epidemiology
- 2009 Outstanding Teaching Assistant Award, The University of Minnesota

2003 Ralph A. Leubben Prize for Anthropology, Grinnell College
2002-2003 Mortar Board Honor Society, Grinnell College