

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 experience

- 2019–Present **Assistant Staff**, CLEVELAND CLINIC, Cleveland, OH.
Department of Quantitative Health Sciences
- 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**, 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
- 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

Teaching experience

- Fall 2017 **Teaching Assistant**, COLUMBIA UNIVERSITY, New York, NY.
Data Science I
- 2016–2017 **Adjunct Professor**, HUNTER COLLEGE, New York, NY.
Fundamentals of Biostatistics
- 2008–2010 **Teaching Assistant**, THE UNIVERSITY OF MINNESOTA, Minneapolis, MN.
Introduction to Biostatistics
Advanced Topics in Clinical Trials

Research experience

- 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
- 2008–2009 **Research Assistant**, THE UNIVERSITY OF MINNESOTA, Minneapolis, MN.
Division of Health Policy and Management

Methodologic publications

1. (Under review) **Zabor, E. C.**, Seshan, S.E., Wang, S., Begg, C. B. Validity of a method for identifying disease subtypes that are etiologically heterogeneous.
2. **Zabor, E. C.** (2019). riskclustr: Functions to Study Etiologic Heterogeneity. *Journal of Open Source Software*, 4(35), 1269.
3. **Zabor, E. C.**, & Begg, C. B. (2017). A comparison of statistical methods for the study of etiologic heterogeneity. *Stat Med*, 36(25), 4050-4060.
4. 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.
5. Begg, C. B., Rice, M. S., **Zabor, E. C.**, & Tworoger, S. S. (2017). Examining the common aetiology of serous ovarian cancers and basal-like breast cancers using double primaries. *Br J Cancer*, 116(8), 1088-1091.
6. **Zabor, E. C.**, Heller, G., Schwartz, L. H., Chapman, P. B. (2016). Correlating Surrogate Endpoints with Overall Survival at the Individual Patient Level in BRAFV600E-Mutated Metastatic Melanoma Patients Treated with Vemurafenib. *Clin Cancer Res*, 22(6), 1341-1347.
7. Begg, C. B., Orlow, I., **Zabor, E. C.**, Arora, A., Sharma, A., Seshan, V. E., Bernstein, J. L. (2015). Identifying Etiologically Distinct Sub-Types of Cancer: A Demonstration Project Involving Breast Cancer. *Cancer Med*, 4(9), 1432-1439.
8. 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.
9. **Zabor, E. C.**, Gonen, M., Chapman, P. B., Panageas, K. S. (2013). Dynamic prognostication using conditional survival estimates. *Cancer*, 119(20), 3589-3592.
10. 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.
11. 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.**, Stempel, M., Morrow, M., & Gemignani, M. L. (2019). Does race predict survival for women with invasive breast cancer? *Cancer*.
2. 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.
3. Pilewskie, M., **Zabor, E. C.**, Gilbert, E., Stempel, M., Petruolo, O., Mangino, D., ... Jochelson, M. S. (2019). Differences between screen-detected and interval breast cancers

- among BRCA mutation carriers. *Breast Cancer Res Treat*, 175(1), 141-148.
4. Pietzak, E. J., **Zabor, E. C.**, Bagrodia, A., Armenia, J., Hu, W., Zehir, A., ... 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.
 5. 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.
 6. Engel, L. S., **Zabor, E. C.**, Satagopan, J., Widell, A., Rothman, N., O'Brien, T. R., ... 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*.
 7. 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.
 8. 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.
 9. **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.
 10. **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.
 11. **Zabor, E. C.**, Furberg, H., Lee, B., Campbell, S., Lane, B. R., Thompson, R. H., ... 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.
 12. 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.
 13. Teo, M. Y., Bambury, R. M., **Zabor, E. C.**, Jordan, E., Al-Ahmadie, H., Boyd, M. E., ... 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.
 14. Silk, M. T., Mikkilineni, N., Silk, T. C., **Zabor, E. C.**, Ostrovnya, I., Hakimi, A. A., ... 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.
 15. Scott, J. M., **Zabor, E. C.**, Schwitzer, E., Koelwyn, G. J., Adams, S. C., Nilsen, T. S., ... 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.
 16. 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.
 17. 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.
 18. Moo, T. A., Edelweiss, M., Hajiyeva, S., Stempel, M., Raiss, M., **Zabor, E. C.**, ... 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.
19. Lee, B. H., **Zabor, E. C.**, Tennenbaum, D., Furberg, H., Benfante, N., Coleman, J. A., . . . Russo, P. (2018). Renal function recovery after radical nephroureterectomy for upper tract urothelial carcinoma. *World J Urol*, 36(2), 257-263.
 20. 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.
 21. Cronin, P. A., Romanoff, A., **Zabor, E. C.**, Stempel, M., Eaton, A., Smyth, L. 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.
 22. 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.
 23. 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.
 24. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., . . . Vickers, A. J. (2018). Guidelines for reporting of statistics for clinical research in urology. *J Urol*.
 25. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., . . . Vickers, A. J. (2018). Guidelines for Reporting of Statistics for Clinical Research in Urology. *Eur Urol*.
 26. Assel, M., Sjoberg, D., Elders, A., Wang, X., Huo, D., Botchway, A., . . . Vickers, A. J. (2018). Guidelines for reporting of statistics for clinical research in urology. *BJU Int*.
 27. Weber, J. J., Jochelson, M. S., Eaton, A., **Zabor, E. C.**, Barrio, A. V., Gemignani, M. L., . . . 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.
 28. Teo, M. Y., Bambury, R. M., **Zabor, E. C.**, Jordan, E., Al-Ahmadie, H., Boyd, M. E., . . . 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.
 29. Schwitzer, E., Orlow, I., **Zabor, E. C.**, Begg, C. B., Berwick, M., Thomas, N. E., . . . 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.
 30. Salz, T., **Zabor, E. C.**, de Nully Brown, P., Dalton, S. O., Raghunathan, N. J., Matasar, M. J., . . . Johansen, C. (2017). Preexisting Cardiovascular Risk and Subsequent Heart Failure Among Non-Hodgkin Lymphoma Survivors. *J Clin Oncol*, 35(34), 3837-3843.
 31. Pilewskie, M., **Zabor, E. C.**, Mamtani, A., Barrio, A. V., Stempel, M., & Morrow, M. (2017). The Optimal Treatment Plan to Avoid Axillary Lymph Node Dissection in Early-Stage Breast Cancer Patients Differs by Surgical Strategy and Tumor Subtype. *Ann Surg Oncol*, 24(12), 3527-3533.
 32. McCartan, D. P., **Zabor, E. C.**, Morrow, M., Van Zee, K. J., & El-Tamer, M. B. (2017). Oncologic Outcomes After Treatment for MRI Occult Breast Cancer (pT0N+). *Ann Surg Oncol*, 24(11), 3141-3147.
 33. Manley, B. J., **Zabor, E. C.**, Casuscelli, J., Tennenbaum, D. M., Redzematovic, A., Becerra, M. F., . . . Hakimi, A. A. (2017). Integration of Recurrent Somatic Mutations with Clinical Outcomes: A Pooled Analysis of 1049 Patients with Clear Cell Renal Cell Carcinoma. *Eur Urol Focus*, 3(4-5), 421-427.
 34. Gilbert, E., **Zabor, E. C.**, Stempel, M., Mangino, D., Heerdt, A., & Pilewskie, M. (2017).

- Differences Among a Modern Cohort of BRCA Mutation Carriers Choosing Bilateral Prophylactic Mastectomies Compared to Breast Surveillance. *Ann Surg Oncol*, 24(10), 3048-3054.
35. Gentile, L. F., Plitas, G., **Zabor, E. C.**, Stempel, M., Morrow, M., & Barrio, A. V. (2017). Tumor Biology Predicts Pathologic Complete Response to Neoadjuvant Chemotherapy in Patients Presenting with Locally Advanced Breast Cancer. *Ann Surg Oncol*, 24(13), 3896-3902.
 36. Francis, J. H., Brodie, S. E., Marr, B., **Zabor, E. C.**, Mondesire-Crump, I., & Abramson, D. H. (2017). Efficacy and Toxicity of Intravitreal Chemotherapy for Retinoblastoma: Four-Year Experience. *Ophthalmology*, 124(4), 488-495.
 37. Cho, G. Y., Gennaro, L., Sutton, E. J., **Zabor, E. C.**, Zhang, Z., Giri, D., ... Thakur, S. B. (2017). Intravoxel incoherent motion (IVIM) histogram biomarkers for prediction of neoadjuvant treatment response in breast cancer patients. *Eur J Radiol Open*, 4, 101-107.
 38. Casuscelli, J., Weinhold, N., Gundem, G., Wang, L., **Zabor, E. C.**, Drill, E., ... Hsieh, J. J. (2017). Genomic landscape and evolution of metastatic chromophobe renal cell carcinoma. *JCI Insight*, 2(12).
 39. Casuscelli, J., Becerra, M. F., Manley, B. J., **Zabor, E. C.**, Reznik, E., Redzematovic, A., ... Hakimi, A. A. (2017). Characterization and Impact of TERT Promoter Region Mutations on Clinical Outcome in Renal Cell Carcinoma. *Eur Urol Focus*.
 40. Campbell, P. T., Rebbeck, T. R., Nishihara, R., Beck, A. H., Begg, C. B., Bogdanov, A. A., ... Ogino, S. (2017). Proceedings of the third international molecular pathological epidemiology (MPE) meeting. *Cancer Causes Control*, 28(2), 167-176.
 41. Boursiquot, B. C., **Zabor, E. C.**, Glezerman, I. G., & Jaimes, E. A. (2017). Hypertension and VEGF (Vascular Endothelial Growth Factor) Receptor Tyrosine Kinase Inhibition: Effects on Renal Function. *Hypertension*.
 42. Alanee, S. R., Shah, S., **Zabor, E. C.**, Vijai, J., Ostrovnaya, I., Garcia-Grossman, I. R., ... Bajorin, D. F. (2017). Evaluating the association of multiple single nucleotide polymorphisms with response to gemcitabine and platinum combination chemotherapy in urothelial carcinoma of the bladder. *Int J Clin Pharmacol Ther*, 55 (2017)(3), 203-209.
 43. **Zabor, E. C.**, Furberg, H., Mashni, J., Lee, B., Jaimes, E. A., Russo, P. (2016). Factors Associated with Recovery of Renal Function following Radical Nephrectomy for Kidney Neoplasms. *Clin J Am Soc Nephrol*, 11(1), 101-107.
 44. Yu, A. F., Raikhelkar, J., **Zabor, E. C.**, Tonorezos, E. S., Moskowitz, C. S., Adsuar, R., ... Liu, J. E. (2016). Two-Dimensional Speckle Tracking Echocardiography Detects Subclinical Left Ventricular Systolic Dysfunction among Adult Survivors of Childhood, Adolescent, and Young Adult Cancer. *Biomed Res Int*, 2016, 9363951.
 45. Tully, C. M., Apolo, A. B., **Zabor, E. C.**, Regazzi, A. M., Ostrovnaya, I., Furberg, H. F., ... Bajorin, D. F. (2016). The high incidence of vascular thromboembolic events in patients with metastatic or unresectable urothelial cancer treated with platinum chemotherapy agents. *Cancer*, 122(5), 712-721.
 46. Thong, A. E., Petruzella, S., Orlow, I., **Zabor, E. C.**, Ehdaie, B., Ostroff, J. S., ... Barnes, H. F. (2016). Accuracy of Self-reported Smoking Exposure Among Bladder Cancer Patients Undergoing Surveillance at a Tertiary Referral Center. *Eur Urol Focus*, 2(4), 441-444.
 47. Spitzer, B., Perales, M. A., Kernan, N. A., Prockop, S. E., **Zabor, E. C.**, Webb, N., ... Boulad, F. (2016). Second Allogeneic Stem Cell Transplantation for Acute Leukemia Using a Chemotherapy-Only Cytoreduction with Clofarabine, Melphalan, and Thiotepe. *Biol Blood Marrow Transplant*, 22(8), 1449-1454.
 48. Murray, K. S., **Zabor, E. C.**, Spaliviero, M., Russo, P., Bazzi, W. M., Musser, J. E., ... Furberg, H. (2016). Second primary malignancies in renal cortical neoplasms: an updated

- evaluation from a single institution. *World J Urol*, 34(12), 1667-1672.
49. Hay, J. L., **Zabor, E. C.**, Kumar, J., Brennessel, D., Kemeny, M. M., Lubetkin, E. I. (2016). Cancer beliefs and patient activation in a diverse, multilingual primary care sample. *Psychooncology*, 25(9), 1071-1078.
 50. Desai, N. B., Scott, S. N., **Zabor, E. C.**, Cha, E. K., Hreiki, J., Sfakianos, J. P., ... Iyer, G. (2016). Genomic characterization of response to chemoradiation in urothelial bladder cancer. *Cancer*, 122(23), 3715-3723.
 51. Dahi, P. B., Morawa, E., Perales, M. A., **Zabor, E. C.**, Devlin, S. M., Maloy, M., ... Giralt, S. A. (2016). Low incidence of GvHD with T-cell depleted allografts facilitates further treatments for post-transplantation relapse in AML and MDS. *Bone Marrow Transplant*, 51(7), 991-993.
 52. Bagrodia, A., Lee, B. H., Lee, W., Cha, E. K., Sfakianos, J. P., Iyer, G., ... Feldman, D. R. (2016). Genetic Determinants of Cisplatin Resistance in Patients With Advanced Germ Cell Tumors. *J Clin Oncol*, 34(33), 4000-4007.
 53. Bagrodia, A., Cha, E. K., Sfakianos, J. P., **Zabor, E. C.**, Bochner, B. H., Al-Ahmadie, H. A., ... Coleman, J. A. (2016). Genomic Biomarkers for the Prediction of Stage and Prognosis of Upper Tract Urothelial Carcinoma. *J Urol*, 195(6), 1684-1689.
 54. Albiges, L., Hakimi, A. A., Xie, W., McKay, R. R., Simantov, R., Lin, X., ... Choueiri, T. K. (2016). Body Mass Index and Metastatic Renal Cell Carcinoma: Clinical and Biological Correlations. *J Clin Oncol*, 34(30), 3655-3663.
 55. Al-Ahmadie, H. A., Iyer, G., Lee, B. H., Scott, S. N., Mehra, R., Bagrodia, A., ... Solit, D. B. (2016). Frequent somatic CDH1 loss-of-function mutations in plasmacytoid variant bladder cancer. *Nat Genet*, 48(4), 356-358.
 56. Sfakianos, J. P., Cha, E. K., Iyer, G., Scott, S. N., **Zabor, E. C.**, Shah, R. H., ... Coleman, J. A. (2015). Genomic Characterization of Upper Tract Urothelial Carcinoma. *Eur Urol*, 68(6), 970-977.
 57. Lubetkin, E. I., **Zabor, E. C.**, Isaac, K., Brennessel, D., Kemeny, M. M., Hay, J. L. (2015). Health literacy, information seeking, and trust in information in Haitians. *Am J Health Behav*, 39(3), 441-450.
 58. Kim, P. H., Cha, E. K., Sfakianos, J. P., Iyer, G., **Zabor, E. C.**, Scott, S. N., ... Bochner, B. H. (2015). Genomic predictors of survival in patients with high-grade urothelial carcinoma of the bladder. *Eur Urol*, 67(2), 198-201.
 59. Bambury, R. M., Benjamin, D. J., Chaim, J. L., **Zabor, E. C.**, Sullivan, J., Garcia-Grossman, I. R., ... Rosenberg, J. E. (2015). The safety and efficacy of single-agent pemetrexed in platinum-resistant advanced urothelial carcinoma: a large single-institution experience. *Oncologist*, 20(5), 508-515.
 60. Sfakianos, J. P., Hakimi, A. A., Kim, P. H., **Zabor, E. C.**, Mano, R., Bernstein, M., ... Russo, P. (2014). Outcomes in patients undergoing nephrectomy for renal cancer on chronic anticoagulation therapy. *Eur J Surg Oncol*, 40(12), 1700-1705.
 61. Mano, R., Hakimi, A. A., **Zabor, E. C.**, Bury, M. A., Donati, O. F., Karlo, C. A., ... 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.
 62. 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.
 63. 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.

64. 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.
65. Do, R. K., Katz, S. S., Gollub, M. J., Li, J., LaFemina, J., **Zabor, E. C.**, ... 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.
66. **Zabor, E. C.**, Li, Y., Thornton, L. M., Shuman, M. R., Bulik, C. M., Lichtenstein, P., ... Furberg, H. (2013). Initial reactions to tobacco use and risk of future regular use. *Nicotine Tob Res*, 15(2), 509-517.
67. Weiss, M. J., Ito, H., Araujo, R. L., **Zabor, E. C.**, Gonen, M., D'Angelica, M. I., ... 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.
68. Rink, M., **Zabor, E. C.**, Furberg, H., Xylinas, E., Ehdaie, B., Novara, G., ... 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.
69. Rink, M., Furberg, H., **Zabor, E. C.**, Xylinas, E., Babjuk, M., Pycha, A., ... 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.
70. 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.
71. 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.
72. Moskowitz, C. S., **Zabor, E. C.**, Jochelson, M. (2013). Response to the "letter to the editor" by Dr. Thomas Filleron. *Breast J*, 19(2), 227.
73. McErlean, A., Panicek, D. M., **Zabor, E. C.**, Moskowitz, C. S., Bitar, R., Motzer, R. J., ... Ginsberg, M. S. (2013). Intra- and interobserver variability in CT measurements in oncology. *Radiology*, 269(2), 451-459.
74. 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.
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R Packages

- riskclustr: functions related to the study of etiologic heterogeneity, <https://cran.r-project.org/web/packages/riskclustr/>.
- condsurv: calculation and plotting of conditional survival estimates, <https://github.com/zabore/condsurv>. *Note that this package is currently under development.*
- ezfun: convenience and utility functions for use in my clinical applications work, with a focus on producing tables for R Markdown output to Microsoft Word, <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

- “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

- 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

- 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–Present 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