
MATTHEW P. SMELTZER

University of Memphis, School of Public Health
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EDUCATION

PhD	2014	Epidemiology School of Public Health, University of Memphis, Memphis, TN
MStat	2004	Statistics Department of Statistics, University of Florida, Gainesville, FL
BS	2001	Mathematics (cum laude) Harding University, Searcy, AR

ACCREDITATION

PStat	2014-	Accredited Professional Statistician by the American Statistical Association
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APPOINTMENTS

Assistant Professor (tenure-track), Epidemiology and Biostatistics University of Memphis, School of Public Health	2015-
Director of Epidemiology and Biostatistics, Thoracic Oncology Research Group Baptist Cancer Center, Memphis, TN	2016-
Member, Graduate Faculty University of Memphis Graduate School	2015-
Epidemiologist and Biostatistician, Thoracic Oncology Research Group Baptist Cancer Center, Memphis TN	2015-2016
Lead Senior Biostatistician, Department of Biostatistics St. Jude Children's Research Hospital, Memphis, TN	2012-2015
Senior Biostatistician, Department of Biostatistics St. Jude Children's Research Hospital, Memphis, TN	2009-2012
Biostatistical Consultant, Thoracic Oncology Research Group, University of Tennessee Cancer Institute, Memphis, TN	2008-2014
Biostatistician, Department of Biostatistics St. Jude Children's Research Hospital, Memphis, TN	2006-2009
Statistical Analyst, Department of Biostatistics St. Jude Children's Research Hospital, Memphis, TN	2004-2006

TEACHING ACTIVITIES

Assistant Professor, University of Memphis 2015-

- Applied Categorical Data Analysis (PUBH 7311/8311) Spring 2016, Spring 2017, Fall 2017, Fall 2018
- Applied Survival Analysis (PUBH 7309/8309) Fall 2016, Spring 2018, Spring 2019
- Biostatistical Methods I (PUBH 7150/8150) Fall 2015
- Special Topics (PUBH 8400), Fall 2017, Fall 2018
- Masters Thesis (PUBH 7996) Spring 2017

Graduate Teaching Assistant, University of Florida, College of Medicine, 2002

- Evidence Based Medicine (PAS 5013) - Graduate Teaching Assistant

Graduate Teaching Assistant, University of Florida, Department of Statistics, 2001-2003

- Introduction to Statistics (STA 2023)- Graduate Teaching Assistant (4 semesters)
- Mathematical Statistics with Computer Applications (STA 4033) - Graduate Teaching Assistant

PUBLICATIONS

1. **Smeltzer MP**, Faris NR, Ray MA, Fehnel C, Houston-Harris C, Ojeabulu P, Akinbobola O, Lee YS, Meadows M, Signore S, Wiggins L, Talton D, Owen E, Deese LE, Eubanks R, Wolf BA, Levy P, Robbins ET, Osarogiagbon RU. Survival before and after direct surgical quality feedback in a population-based lung cancer cohort. *Ann Thorac Surg.* 2018 Dec 27. pii: S0003-4975(18)31859-9.
2. Shayeb AM, **Smeltzer MP**, Kaste SC, Brown A, Estep JE, Nottage K. Vaso-occlusive crisis as a predictor of symptomatic avascular necrosis in children with sickle cell disease, *Pediatr Blood Cancer*, 2018 Dec;65(12):e27435. doi: 10.1002/pbc.27435.
3. Hankins JS, Estep JE, Hodges JR, Villavicencio MA, Robison LL, Weiss MJ, Kang G, Schreiber JE, Porter JS, Kaste SC, Saving KL, Bryant PC, Deyo JE, Nottage KA, King AA, Brandow AM, Lebensburger JD, Adesina O, Chou ST, Zemel BS, **Smeltzer MP**, Wang WC, Gurney JG. Sickle Cell Clinical Research and Intervention Program (SCCRIP): A Lifespan Cohort Study for Sickle Cell Disease Progression from Pediatric into Adulthood. *Pediatr Blood Cancer.* 2018 May 24:e27228. doi: 10.1002/pbc.27228.
4. **Smeltzer MP**, Rugless F, Jackson B, Foust C, Faris NR, Ray M, Meadows M, Patel A, Roark K, Kedia S, DeBon M, Crossley F, Oliver G, McHugh L, Hastings W, Osborne O, Osborne J, III T, III M, Jones W, Lee HK, Signore RS, Fox R, Li J, Robbins ET, Ward KD, Klesges LM, Osarogiagbon R. Pragmatic Trial of a Multidisciplinary Lung Cancer Care Model in a Community Healthcare Setting: Study Design, Implementation Evaluation, and Baseline Clinical Results. *Transl Lung Cancer Res.* 2018 Feb;7(1):88-102. doi: 10.21037/tlcr.2018.01.02.
5. Ray MA, Faris NR, **Smeltzer MP**, Fehnel C, Houston-Harris C, Levy P, Wiggins L, Sachdev V, Robbins ET, Spencer D, Osarogiagbon RU. Effectiveness of Implemented Interventions on Pathologic Nodal Staging of Non-Small Cell Lung Cancer, *Ann Thorac Surg.* 2018 Jul;106(1):228-234.
6. Bi W, Li Y, **Smeltzer MP**, Gao G, Zhao S, Lin X, Kang G. STEPS: An Efficient Prospective Likelihood Approach to Genetic Variant Association analyses of Secondary Traits in Extreme Phenotype Sequencing, *Biostatistics.* 2018 Jul 11. doi: 10.1093/biostatistics/kxy030.

7. **Smeltzer MP**, Faris NR, Ray MA, Osarogiagbon RU. Association of pathologic nodal staging quality with survival among patients with non-small cell lung cancer after resection with curative intent. *JAMA Oncol.* 2018; 4(1):1-8. Published September 28, 2017. doi:10.1001/jamaoncol.2017.2993
8. Fetz AE, Neeli I, Buddington KK, Read RW, **Smeltzer MP**, Radic MZ, Bowlin GL. Localized Delivery of Cl-Amidine From Electrospun Polydioxanone Templates to Regulate Acute Neutrophil NETosis: A Preliminary Evaluation of the PAD4 Inhibitor for Tissue Engineering. *Front. Pharmacol.* 2018; 9:289. doi: 10.3389/fphar.2018.00289
9. Nolan VG, Anderson SM, **Smeltzer MP**, Porter JS, Carroll YM, Brooks IM, Elmagboul N, Gurney JG, Hankins JS. Pediatric to Adult Care Co-location Transitional Model for Youth with Sickle Cell Disease. *Am J Hematol.* 2018 Jan;93(1):E30-E32.
10. Estep JH, **Smeltzer MP**, Kang G, Li C, Wang WC, Abrams C, Aygun B, Ware RE, Nottage K, Hankins JS. A Clinically Meaningful Fetal Hemoglobin Threshold for Children with Sickle Cell Anemia During Hydroxyurea Therapy. *Am J Hematol.* 2017 Dec;92(12):1333-1339.
11. Estep JH, **Smeltzer MP**, Kang G, Howard SC, Reiss UM. Safe Use of Low Molecular Weight Heparin in Pediatric Acute Lymphoblastic Leukemia and Lymphoma Around Lumbar Punctures. *J Pediatr Hematol Oncol.* 2017 Nov;39(8):596-601.
12. Lin CC, **Smeltzer MP**, Jemal A, Osarogiagbon R. Risk-Adjusted Margin Positivity Rate as a Surgical Quality Metric for Non-Small-Cell Lung Cancer. *Ann Thorac Surg* 2017;104:1161–70.
13. **Smeltzer MP**, Lin CC, Kong FM, Jemal A, and Osarogiagbon RU. Survival Impact of Post-Operative Therapy Modalities According to Margin Status in Non-Small Cell Lung Cancer Patients in the United States. *J Thorac Cardiovasc Surg.* 2017 Apr 4. pii: S0022-5223(17)30604-9.
14. Osarogiagbon R, Ray M, Faris N, **Smeltzer MP**, Fehnel C, Houston-Harris C, Signore R, McHugh L, Levy P, Wiggins L, Sachdev V, Robbins E. Prognostic Value of National Comprehensive Cancer Network Lung Cancer Resection Quality Parameters. *Ann Thorac Surg.* 2017 May;103(5):1557-1565.
15. Faris N, **Smeltzer MP**, Lu F, Fehnel C, Chakraborty N, Houston-Harris C, Robbins E, Signore R, McHugh L, Wolf B, Wiggins L, Levy P, Sachdev V, Osarogiagbon R. Evolution in the Surgical Care of Non-Small Cell Lung Cancer (NSCLC) Patients in the Mid-South Quality of Surgical Resection (MS-QSR) Cohort. *Sem. Card. Vasc. Surg.*, Spring 2017, Volume 29, Issue 1, Pages 91–101.
16. Loeffler RB, McCarville MB, Wilson A, **Smeltzer M**, Krafft AJ, Song R, Hankins J, Hillenbrand CM. Can Multi-slice or Navigator-gated R2*-MRI Replace Single-slice Breath-hold Acquisition for Hepatic Iron Quantification? *Pediatr Radiol.* 2017 Jan;47(1):46-54.
17. Osarogiagbon RO, **Smeltzer MP**, Faris N, Rami-Porta R, Goldstraw P, Asamura H. Comment on the Proposals for the Revision of the N Descriptors in the Forthcoming 8th Edition of the TNM Classification for Lung Cancer. *J Thorac Oncol.* 2016 Oct;11(10):1612-4.
18. Sachdev JC, Snider JN, Allen JW, Schwartzberg LS, Young RR, Javed AY, **Smeltzer MP**, Yunus F, Verrier CS, Jahanzeb M. Neoadjuvant Weekly nab-Paclitaxel Plus Carboplatin Followed by Doxorubicin Plus Cyclophosphamide With Bevacizumab Added Concurrently to Chemotherapy for Palpable and Operable Triple-Negative Invasive Breast Cancer. *Journal of Cancer and Allied Specialties.* 2016; 2(1).

19. Nottage K, Ware RE, Aygun B, **Smeltzer MP**, Kang G, Moen J, Wang W, Hankins J, Helton K,. Hydroxycarbamide Treatment and Brain MRI/MRA Findings in Children with Sickle Cell Anaemia. *Br J Haematol*. 2016 Oct;175(2):331-338.
20. Li Q, Zhan P, Dongmei Y, Lv Y, Krupnick AS, Passaro A, Brunelli A, **Smeltzer MP**, Osarogiagbon RU, Song Y. Prognostic value of lymph node ratio in patients with pathological N1 non-small cell lung cancer: a systematic review with meta-analysis. *Transl Lung Cancer Res*. 2016 Jun;5(3):258-64.
21. **Smeltzer MP**, Faris N, Yu X, Spencer D, Berry A, Sales E, Finch-Cruz C, Osarogiagbon RO. The Survival Impact of Missed Lymph Node Metastasis in Surgically Resected Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2016 Aug;102(2):448-53.
22. Nottage KA, Hankins JS, James D, Richardson J, Christensen R, Kang G, **Smeltzer MP**, Cancio M, Wang WC, Angheliescu D. Addressing Challenges of Clinical Trials in Acute Pain: The Pain Management of Vaso-occlusive Crisis in Sickle Cell Disease Study. *ClinTrials*. 2016 Aug;13(4):409-16.
23. **Smeltzer MP**, Nolan VG, Yu X, Nottage KA, Davis B, Yang Y, Wang WC, Gurney JG, Hankins JS. The Birth Prevalence of Sickle Cell Trait and Sickle Cell Disease in Shelby County, TN. *Pediatr Blood Cancer*. 2016 Jun;63(6):1054-9.
24. Osarogiagbon RU, Lin CC, **Smeltzer MP**, Jemal A. Prevalence, prognostic implications and survival modulators of incompletely resected non-small-cell lung cancer in the US National Cancer Data Base. *Journal of Thoracic Oncology, J Thorac Oncol*. 2016 Jan;11(1):e5-e16. PMID: 26762752
25. Pestina T, Hargrove PW, Zhao HF, **Smeltzer MP**, Weiss MJ, Wilber A, Persons DA. Amelioration of murine sickle cell disease by nonablative conditioning and γ -globin gene-corrected bone marrow cells. *Mol Ther Methods Clin Dev*. 2015;2:15045.
26. Hankins JS, McCarville MB, Rankine-Mullings A, Reid ME, Lobo C, Moura P, Ali S, Soares D, Aldred K, Jay DW, Aygun B, Bennett J, Kang G, Goldsmith JC, **Smeltzer MP**, Boyett JM, Ware RE. Prevention of Conversion to Abnormal TCD with Hydroxyurea in Sickle Cell Anemia: A Phase II International Randomized Clinical Trial. *American Journal of Hematology*, 2015 90(12): 1099–1105.
27. **Smeltzer MP**, Nolan VG, Yu X, Nottage KA, Wang WC, Hankins JS, Gurney JG. The Effects of Distance from an Urban Sickle Cell Center on Routine Healthcare Management and Rates of Hospitalization. *Hemoglobin*, 2015 Sep 15:1-6. [Epub ahead of print] PMID: 26372097
28. Yu X, Klesges L, **Smeltzer MP**, Osarogiagbon R. Measuring improvement in populations: implementing and evaluating successful change in lung cancer care. *Trans. Lung Cancer Research*, 2015; 4(4): 373-384.
29. Cancio MI, Helton KJ, Schreiber JE, **Smeltzer MP**, Kang G, Wang WC. Silent cerebral infarcts in very young children with sickle cell anaemia are associated with a higher risk of stroke. *British Journal of Haematology*, 2015 Oct;171(1):120-9.
30. Porter JS, Matthews CS, Carroll YM, Anderson SM, **Smeltzer MP**, Hankins JS. Genetic education and sickle cell disease: Feasibility and efficacy of a program tailored to adolescents. *Journal of Pediatric Hematology and Oncology*; 36 (7), 572-577, 2014
31. Hankins JS, Aygun B, Nottage K, Thornburg C, **Smeltzer MP**, Ware RE, Wang WC. From Infancy to Adolescence: Fifteen Years of Continuous Treatment with Hydroxyurea in Sickle Cell Anemia. *Medicine*, 93(28):e215, 2014.

32. Estep JH, Winter B, Johnson M, **Smeltzer MP**, Howard SC, Hankins JS. Improved hydroxyurea effect with the use of text messaging in children with sickle cell anemia. *Pediatric Blood and Cancer*; 61(11):2031-36, 2014.
33. Nottage KA, Ware RE, Winter B, **Smeltzer M**, Wang WC, Hankins JS, Dertinger SD, Shulkin B, and Aygun B. Predictors of splenic function preservation in children with sickle cell anemia treated with hydroxyurea. *Eur J Haematol*. 2014; 93(5):377-83
34. Bettini M, Jennifer L. Blanchfield JL, Castellaw A, Zhang Q, Nakayama M, **Smeltzer MP**, Zhang H, Hogquist KA, Evavold BD, Vignali DA. TCR affinity and tolerance mechanisms converge to shape T cell diabetogenic potential. *J Immunol*. 2014 Jul 15;193(2):571-9.
35. Helton, KG; Reddick, W; Paydar, A; Zandieh, A, Dave, R; **Smeltzer, MP**; Wu, S; Hankins, J; Aygun, B; Ogg, R Comparing segmented ASL perfusion of vascular territories using manual vs. semi-automated techniques in children with sickle cell anemia. *Journal of Magnetic Resonance Imaging*. 2015, 41:439–446.
36. Hankins, J; **Smeltzer, M**; Wu, S; Aygun, B; Clarke, D. Assessment of Sleep-Related Disorders in Children with Sickle Cell Disease. *Hemoglobin* 2014;38(4):244-51.
37. Osarogiagbon RU; Wang, CG; Miller LE; Adair CA; **Smeltzer M**; Yu X; Berry A. Size and histologic characteristics of lymph node material retrieved from remnant tissue after routine pathologic examination of lung cancer resection specimens. *Ann. of Diagn. Pathol*. 2014 Jun;18(3):136-9.
38. Nottage KA, Hankins JS, **Smeltzer M**, Mzayek F, Wang WC, Aygun B, Gurney JG. Hydroxyurea use and hospitalization trends in a comprehensive pediatric sickle cell program. *PLoS one*. 2013;8(8):e72077.
39. Sheehan VA, Hansbury EN, **Smeltzer MP**, Fortner G, McCarville MB, Aygun B. Transcranial Doppler velocity and brain MRI/MRA changes in children with sickle cell anemia on chronic transfusions to prevent primary stroke. *Pediatric blood & cancer*. Sep 2013;60(9):1499-1502.
40. Osarogiagbon RU, Ramirez RA, Wang CG, Miller LE, **Smeltzer M**, Sareen S, Javed AY, Robbins SG, Khandekar A, Wolf BA, Gibson J, Spencer D, Robbins ET. Dual intervention to improve pathologic staging of resectable lung cancer. *The Annals of thoracic surgery*. Dec 2013;96(6):1975-1981.
41. Despotovic JM, McGann PT, **Smeltzer M**, Aygun B, Ware RE. RHD zygosity predicts degree of platelet response to anti-D immune globulin treatment in children with immune thrombocytopenia. *Pediatric blood & cancer*. Sep 2013;60(9):E106-108.
42. Guy CS, Vignali KM, Temirov J, Bettini ML, Overacre AE, **Smeltzer M**, Zhang H, Huppa JB, Tsai YH, Lobry C, Xie J, Dempsey PJ, Crawford HC, Aifantis I, Davis MM, Vignali DA. Distinct TCR signaling pathways drive proliferation and cytokine production in T cells. *Nature immunology*. Mar 2013;14(3):262-270.
43. Estep JH, **Smeltzer MP**, Wang WC, Hoehn ME, Hankins JS, Aygun B. Protection from sickle cell retinopathy is associated with elevated HbF levels and hydroxycarbamide use in children. *British journal of haematology*. May 2013;161(3):402-405.
44. Cook CM, **Smeltzer MP**, Mortier NA, Kirk SE, Despotovic JM, Ware RE, Hankins JS. The clinical and laboratory spectrum of Hb C [$\beta 6(A3)Glu \rightarrow Lys$, GAG>AAG] disease. *Hemoglobin*. 2013;37(1):16-25.
45. Yates AM, Dedeken L, **Smeltzer MP**, Lebensburger JD, Wang WC, Robitaille N. Hydroxyurea treatment of children with hemoglobin SC disease. *Pediatric blood & cancer*. Feb 2013;60(2):323-325.
46. Aygun B, Mortier NA, **Smeltzer MP**, Shulkin BL, Hankins JS, Ware RE. Hydroxyurea treatment decreases glomerular hyperfiltration in children with sickle cell anemia. *American journal of hematology*. Feb 2013;88(2):116-119.

47. Finch P, Stocks RM, **Smeltzer MP**, Kimble A, Schoumacher R, Hankins JS. Effects of adenotonsillectomy on polysomnographic parameters in children with sickle cell disease. *Pediatric blood & cancer*. Jul 2013;60(7):E26-28.
48. Nottage K, Gurney JG, **Smeltzer M**, Castellanos M, Hudson MM, Hankins JS. Trends in transfusion burden among long-term survivors of childhood hematological malignancies. *Leukemia & lymphoma*. Aug 2013;54(8):1719-1723.
49. Anghelescu DL, Burgoyne LL, Faughnan LG, Hankins GM, **Smeltzer MP**, Pui CH. Prospective randomized crossover evaluation of three anesthetic regimens for painful procedures in children with cancer. *The Journal of pediatrics*. Jan 2013;162(1):137-141.
50. Hankins JS, Osarogiagbon R, Adams-Graves P, McHugh L, Steele V, **Smeltzer MP**, Anderson SM. A transition pilot program for adolescents with sickle cell disease. *Journal of pediatric health care : official publication of National Association of Pediatric Nurse Associates & Practitioners*. Nov-Dec 2012;26(6):e45-49.
51. Cejda KR, **Smeltzer MP**, Hansbury EN, McCarville ME, Helton KJ, Hankins JS. The impact of preparation and support procedures for children with sickle cell disease undergoing MRI. *Pediatric radiology*. Oct 2012;42(10):1223-1228.
52. Williams-Hooker R, Olivi S, **Smeltzer MP**, Wang W. Health-Related Quality of Life is Associated with Hemoglobin Level in Children with Sickle Cell Anemia. *J Blood Disorders Transf*. 2012;3(4).
53. McCullers JA, Williams BF, Wu S, **Smeltzer MP**, Williams BG, Hayden RT, Howard SC, Pui CH, Hughes WT. Healthcare-Associated Infections at a Children's Cancer Hospital, 1983-2008. *Journal of the Pediatric Infectious Diseases Society*. Mar 2012;1(1):26-34.
54. Woo SR, Turnis ME, Goldberg MV, Bankoti J, Selby M, Nirschl CJ, Bettini ML, Gravano DM, Vogel P, Liu CL, Tangsombatvisit S, Grosso JF, Netto G, **Smeltzer MP**, Chau A, Utz PJ, Workman CJ, Pardoll DM, Korman AJ, Drake CG, Vignali DA. Immune inhibitory molecules LAG-3 and PD-1 synergistically regulate T-cell function to promote tumoral immune escape. *Cancer research*. Feb 15 2012;72(4):917-927.
55. Estep JH, **Smeltzer M**, Reiss UM. The impact of quality and duration of enoxaparin therapy on recurrent venous thrombosis in children. *Pediatric blood & cancer*. Jul 15 2012;59(1):105-109.
56. Ware RE, Despotovic JM, Mortier NA, Flanagan JM, He J, **Smeltzer MP**, Kimble AC, Aygun B, Wu S, Howard T, Sparreboom A. Pharmacokinetics, pharmacodynamics, and pharmacogenetics of hydroxyurea treatment for children with sickle cell anemia. *Blood*. Nov 3 2011;118(18):4985-4991.
57. Walker AL, Steward S, Howard TA, Mortier N, **Smeltzer M**, Wang YD, Ware RE. Epigenetic and molecular profiles of erythroid cells after hydroxyurea treatment in sickle cell anemia. *Blood*. Nov 17 2011;118(20):5664-5670.
58. Zou P, Helton KJ, **Smeltzer M**, Li CS, Conklin HM, Gajjar A, Wang WC, Ware RE, Ogg RJ. Hemodynamic responses to visual stimulation in children with sickle cell anemia. *Brain imaging and behavior*. Dec 2011;5(4):295-306.
59. Aygun B, Mortier NA, **Smeltzer MP**, Hankins JS, Ware RE. Glomerular hyperfiltration and albuminuria in children with sickle cell anemia. *Pediatric nephrology*. Aug 2011;26(8):1285-1290.
60. Aygun B, Parker J, Freeman MB, Stephens AL, **Smeltzer MP**, Wu S, Hankins JS, Wang WC. Neurocognitive screening with the Brigance preschool screen-II in 3-year-old children with sickle cell disease. *Pediatric blood & cancer*. Apr 2011;56(4):620-624.

61. Fowler KT, Williams R, Mitchell CO, Levy MC, Pope LF, **Smeltzer MP**, Wang WC. Dietary water and sodium intake of children and adolescents with sickle cell anemia. *Journal of pediatric hematology/oncology*. Jul 2010;32(5):350-353.
62. McCarville MB, Hillenbrand CM, Loeffler RB, **Smeltzer MP**, Song R, Li CS, Hankins JS. Comparison of whole liver and small region-of-interest measurements of MRI liver R2* in children with iron overload. *Pediatric radiology*. Aug 2010;40(8):1360-1367.
63. Hankins JS, **Smeltzer MP**, McCarville MB, Aygun B, Hillenbrand CM, Ware RE, Onciu M. Patterns of liver iron accumulation in patients with sickle cell disease and thalassemia with iron overload. *European journal of haematology*. Jul 2010;85(1):51-57.
64. Hankins JS, McCarville MB, Hillenbrand CM, Loeffler RB, Ware RE, Song R, **Smeltzer MP**, Joshi V. Ventricular diastolic dysfunction in sickle cell anemia is common but not associated with myocardial iron deposition. *Pediatric blood & cancer*. Sep 2010;55(3):495-500.
65. Flanagan JM, Howard TA, Mortier N, Avlasevich SL, **Smeltzer MP**, Wu S, Dertinger SD, Ware RE. Assessment of genotoxicity associated with hydroxyurea therapy in children with sickle cell anemia. *Mutation research*. Apr 30 2010;698(1-2):38-42.
66. Hankins JS, McCarville MB, Loeffler RB, **Smeltzer MP**, Onciu M, Hoffer FA, Li CS, Wang WC, Ware RE, Hillenbrand CM. R2* magnetic resonance imaging of the liver in patients with iron overload. *Blood*. May 14 2009;113(20):4853-4855.
67. McCarville MB, Monu N, **Smeltzer MP**, Li CS, Laningham FH, Morris EB, Shulkin BL. PET-CT of the normal spinal cord in children. *Academic radiology*. Jul 2009;16(7):881-885.
68. Karplus G, McCarville MB, **Smeltzer MP**, Spyridis G, Rao BN, Davidoff A, Li CS, Shochat S. Should contralateral exploratory thoracotomy be advocated for children with osteosarcoma and early unilateral pulmonary metastases? *Journal of pediatric surgery*. Apr 2009;44(4):665-671.
69. Helton KJ, Paydar A, Glass J, Weirich EM, Hankins J, Li CS, **Smeltzer MP**, Wang WC, Ware RE, Ogg RJ. Arterial spin-labeled perfusion combined with segmentation techniques to evaluate cerebral blood flow in white and gray matter of children with sickle cell anemia. *Pediatric blood & cancer*. Jan 2009;52(1):85-91.
70. Mahindroo N, Connelly MC, Punchihewa C, Kimura H, **Smeltzer MP**, Wu S, Fujii N. Structure-activity relationships and cancer-cell selective toxicity of novel inhibitors of glioma-associated oncogene homologue 1 (Gli1) mediated transcription. *Journal of medicinal chemistry*. Jul 23 2009;52(14):4277-4287.
71. McCarville MB, Goodin GS, Fortner G, Li CS, **Smeltzer MP**, Adams R, Wang W. Evaluation of a comprehensive transcranial doppler screening program for children with sickle cell anemia. *Pediatric blood & cancer*. Apr 2008;50(4):818-821.
72. Burton AR, Vincent E, Arnold PY, Lennon GP, **Smeltzer M**, Li CS, Haskins K, Hutton J, Tisch RM, Sercarz EE, Santamaria P, Workman CJ, Vignali DA. On the pathogenicity of autoantigen-specific T-cell receptors. *Diabetes*. May 2008;57(5):1321-1330.
73. Hankins JS, Fortner GL, McCarville MB, **Smeltzer MP**, Wang WC, Li CS, Ware RE. The natural history of conditional transcranial Doppler flow velocities in children with sickle cell anaemia. *British journal of haematology*. Jul 2008;142(1):94-99.
74. McCarville MB, Whittle SB, Goodin GS, Li CS, **Smeltzer MP**, Hale GA, Kaufman RA. Clinical and CT features of benign pneumatosis intestinalis in pediatric hematopoietic stem cell transplant and oncology patients. *Pediatric radiology*. Oct 2008;38(10):1074-1083.

75. Morris EB, Shelso J, **Smeltzer MP**, Thomas NA, Karimova EJ, Li CS, Merchant T, Gajjar A, Kaste SC. The use of bone age for bone mineral density interpretation in a cohort of pediatric brain tumor patients. *Pediatric radiology*. Dec 2008;38(12):1285-1292.
76. Razzouk BI, Rose SR, Hongeng S, Wallace D, **Smeltzer MP**, Zacher M, Pui CH, Hudson MM. Obesity in survivors of childhood acute lymphoblastic leukemia and lymphoma. *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*. Apr 1 2007;25(10):1183-1189.
77. Burgoyne LL, **Smeltzer MP**, Pereiras LA, Norris AL, De Armendi AJ. How well do pediatric anesthesiologists agree when assigning ASA physical status classifications to their patients? *Paediatric anaesthesia*. Oct 2007;17(10):956-962.

<http://www.ncbi.nlm.nih.gov/sites/myncbi/matthew.smeltzer.1/bibliographahy/50372746/public/?sort=date&direction=descending>

RECENT ABSTRACTS

M. Smeltzer, N. Faris, J. Kethireddy, M. Meadows, M. Nalan, M. Ray, A. Epperson, D. Richards, K. Adams, A. Fulford, A. Wagh, J. Machin, K. Tonkin, R. Optican, J. Wright, E. Robbins, R. Osarogiagbon. Comparing Lung Cancer Diagnosed by Low Dose CT (LDCT), Incidental Lung Nodule Program (ILNP), and non-program based detection. 19th World Conference on Lung Cancer 2018. P1.11-11

A. Marbaugh, T. Asfeldt, R. Oyer, C. Lathan, **M. Smeltzer**, V. Nolan, M. Ray, N. Faris, M. Nalan, W. Stevens, A. Kramar, L. Lucas, R. Osarogiagbon. Creating an optimal care coordination model to improve multidisciplinary care for lung cancer patients on Medicaid. 19th World Conference on Lung Cancer 2018. P1.15-21

M. Smeltzer, N. Faris, M. Ray, C. Fehnel, O. Akinbobola, C. Houston-Harris, P. Ojeabulu, Y. Lee, E. Owen, R. Eubanks, H. Dox, D. Talton, H. Wiggins, B. Wolf, P. Levy, E. Robbins, R. Osarogiagbon. A population-based validation study of the proposed 'R-Factor' classification in a lung cancer endemic region of the US. 19th World Conference on Lung Cancer 2018. P1.16-46

M. Ray, **M. Smeltzer**, N. Faris, Y. Lee, C. Fehnel, C. Houston-Harris, O. Akinbobola, P. Ojeabulu, E. Owen, R. Eubanks, H. Dox, D. Talton, G. Valaulikar, H. Wiggins, B. Wolf, P. Levy, E. Robbins, R. Osarogiagbon. Pattern and Survival impact of neoadjuvant treatment of non-small cell lung cancer (NSCLC) in a prospective lung resection cohort. 19th World Conference on Lung Cancer 2018. P1.17-11

Y. Lee*, **M. Smeltzer**, M. Ray, N. Faris, C. Fehnel, C. Houston-Harris, O. Akinbobola, P. Ojeabulu, E. Owen, R. Eubanks, H. Dox, D. Talton, H. Wiggins, B. Wolf, P. Levy, E. Robbins, R. Osarogiagbon. Survival implications and factors associated with the anatomic level of incomplete non-small cell lung cancer (NSCLC) resection. 19th World Conference on Lung Cancer 2018. P2.16-32

M. Ray, **M. Smeltzer**, N. Faris, Y. Lee, C. Fehnel, C. Houston-Harris, O. Akinbobola, P. Ojeabulu, E. Owen, R. Eubanks, H. Dox, D. Talton, G. Valaulikar, H. Wiggins, B. Wolf, P. Levy, E. Robbins, R. Osarogiagbon. Characteristics of preoperative N staging in patients with optimal pathologic N staging of non-small cell lung cancer (NSCLC). P2.16-38

N. Faris, Y. Lee, **M. Smeltzer**, M. Ray, C. Fehnel, C. Houston-Harris, O. Akinbobola, P. Ojeabulu, E. Owen, R. Eubanks, H. Dox, D. Talton, G. Valaulikar, H. Wiggins, B. Wolf, P. Levy, E. Robbins, R. Osarogiagbon. Characteristics and survival of resected stage IV non-small cell lung cancer (NSCLC) in the mid-south quality of surgical resection cohort. 19th World Conference on Lung Cancer 2018. MA25.05

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Ward K, Boateng N, Stewart F, **Smeltzer M**, Jackson B, Foust C, Faris N, Ray M, Osarogiagbon R. Satisfaction among lung cancer (LCa) patients (pts) in multidisciplinary (MDC) vs. serial care (SC) settings. *J Clin Oncol* 35, 2017 (suppl; abstr e18254)

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Smeltzer M, Lee YS, Robbins E, Faris N, Mutrie C, Ray M, Signore S, Fehnel C, Houston-Harris C, Meadows M, Osarogiagbon R. Predictors of Post-Operative Mortality in Non-Small Cell Lung Cancer (NSCLC) in a High Mortality Region of the US. 17th World Conference on Lung Cancer, December 4-8, 2016 (Abstract 4447).

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Stewart F, **Smeltzer M**, Faris N, Foust C, Jackson B, Roark K, McHugh L, Signore S, Oliver G, Robbins E, Klesges L, Osarogiagbon R. Variance in Multidisciplinary (MultiD) recommendations in a conference only vs co-located clinic model. *J Clin Oncol* 34, 2016 (suppl; abstr e18039)

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Smeltzer MP, Lin CC, Yu X, Jemal A, and Osarogiagbon RU. Survival Impact of Post-Operative Therapy Modalities After Incomplete and Complete Surgical Resection for Non-Small Cell Lung Cancer in the US. 16th World Conference on Lung Cancer, September 6-9, 2015 (ORAL 20.07).

Smeltzer, Rugless, Faris, Yu, Eke, Relyea, Fehnel, Chakraborty, Houston-Harris, Lu, Spencer, Berry, Sales, Finch-Cruz, and Osarogiagbon. Trends in Accuracy and Comprehensiveness of Pathology Reports of Resected Non-small Cell Lung Cancer (NSCLC) in a High Mortality Area of the US. 16th World Conference on Lung Cancer, September 6-9, 2015 (P1.12-001).

X. Yu, N. Faris, R. Eke, **M.P. Smeltzer**, G. Relyea, F.E. Rugless, C. Fehnel, N. Chakraborty, C. Houston-Harris, F. Lu, E.T. Robbins, R.S. Signore, L. McHugh, B. Wolf, C. Mutrie, L. Deese, P. Levy, E. Crocker, L. Wiggins, R.U. Osarogiagbon. Impact of Attainment of the American College of Surgeons Commission on Cancer Quality Measure on Patient Survival After Lung Cancer Resection. 16th World Conference on Lung Cancer, September 6-9, 2015 (MINI06.04).

C.C. Lin, **M.P. Smeltzer**, X. Yu, R.U. Osarogiagbon, A. Jemal. Risk-Adjusted Margin Positivity (RAMP) Rate as a Surgical Quality Metric for Non-Small-Cell Lung Cancer in the US National Cancer Data Base (NCDB). 16th World Conference on Lung Cancer, September 6-9, 2015 (MINI20.02).

N. Faris, **M.P. Smeltzer**, C. Adair, A. Berry, X. Yu, L. McHugh, R.U. Osarogiagbon - The Survival Impact of Missed Lymph Node Metastasis in Surgically Resected Non-Small Cell Lung Cancer (NSCLC). 16th World Conference on Lung Cancer, September 6-9, 2015 (MINI20.03).

X. Yu, E.T. Robbins, N. Faris, R.S. Signore, L. McHugh, R. Eke, **M.P. Smeltzer**, G. Relyea, C. Fehnel, N. Chakraborty, C. Houston-Harris, F. Lu, B. Wolf, C. Mutrie, L. Deese, E. Crocker, L. Wiggins, P. Levy, R.U. Osarogiagbon. Evolution in the Surgical Care of Non-Small Cell Lung Cancer (NSCLC) Patients in the Mid-South Quality of Surgical Resection (MS-QSR) Cohort. 16th World Conference on Lung Cancer, September 6-9, 2015 (ORAL30.01).

N. Faris, X. Yu, R. Eke, **M.P. Smeltzer**, G. Relyea, F.E. Rugless, C. Fehnel, N. Chakraborty, C. Houston-Harris, F. Lu, E.T. Robbins, R.S. Signore, L. McHugh, B. Wolf, C. Mutrie, L. Deese, P. Levy, E. Crocker, L. Wiggins, R.U. Osarogiagbon. Impact of Attainment of National Comprehensive Cancer Network (NCCN) Quality Parameters on Patient Survival after Resection of Lung Cancer. 16th World Conference on Lung Cancer, September 6-9, 2015 (ORAL34.02).

R.U. Osarogiagbon, G. Relyea, N. Faris, X. Yu, R. Eke, **M.P. Smeltzer**, F.E. Rugless, C. Fehnel, N. Chakraborty, C. Houston-Harris, F. Lu, R.S. Signore, L. McHugh, L. Deese, P. Levy, E. Crocker, L. Wiggins, C. Mutrie, B. Wolf, E.T. Robbins. Impact of Surgeons' Attainment of Quality Resection Parameters on Non-Small-Cell Lung Cancer (NSCLC) Patients' Survival. 16th World Conference on Lung Cancer, September 6-9, 2015 (ORAL34.06).

R.U. Osarogiagbon, C.C. Lin, **M.P. Smeltzer**, A. Jemal- Prevalence, Prognostic Implications and Survival Modulators of Incompletely Resected Non-Small Cell Lung Cancer (NSCLC) in the US. 16th World Conference on Lung Cancer, September 6-9, 2015. (ORAL34.07)

Smeltzer MP, Nolan V, Nottage K, Wang W, Gurney J, and Hankins J. Prevalence of sickle cell trait and sickle cell disease among African American live births in Shelby Co., TN. Presentation at the American Public Health Association Annual Meeting. November 2013.

Smeltzer MP, Aygun B, Nolan V, Davis B, Wang W, and Hankins J. Greater Distance from a Sickle Cell Center Does Not Compromise Routine Healthcare Management. Presented at the Global Sickle Cell Disease Network Conference, March 2012.

COMMITTEE AND ADMINISTRATIVE SERVICE

Publications Committee- International Association for the Study of Lung Cancer (IASLC)
 Steering Committee- SCCRIP: Lifetime Cohort Study for Sickle Cell Disease (St. Jude Children's Res. Hosp.)
 National Needs Assessment Committee- NHLBI Sickle Cell Disease Implementation Consortium (SCDIC)
 American College of Epidemiology, Associate Members Leadership Committee, 2014-2016
 Admissions Committee, Master in Public Health, University of Memphis.
 Comprehensive Examination Committee, PhD in Epidemiology, University of Memphis.
 Judge for 2017 Graduate Research Symposium, University of Memphis

HONORS AND MEMBERSHIPS

2017 IASLC Tsuguo Naruke Lectureship Award (Best Surgical Abstract, World Conference on Lung Cancer)
 2016 IASLC World Conference on Lung Cancer- Young Investigator Communications Workshop Award
 American College of Epidemiology
 American Statistical Association
 American Society of Clinical Oncology
 International Association for the Study of Lung Cancer
 SAS Users Group, Memphis

REVIEWER

Journal of Thoracic Oncology, Review Team Member, 2018-
 Pediatric Blood and Cancer, ad hoc, 2013-
 American Journal of Health Behavior, ad hoc, 2013-
 National Undergraduate Research Conference 2017

RESEARCH SUPPORT

2-R01CA172253 (PI: Raymond Osarogiagbon, MBBS). 08/01/2018-7/31/2023
 Improving N1 lymph node examination in a high US lung cancer mortality region.
 National Cancer Institute
 Role: Site Principal Investigator

Epidemiology, Biostatistics, and Data Coordinating Center (EBDCC) 07/01/2017 - 12/31/2018
 Creating an Optimal Care Coordination Model for Lung Cancer Patients on Medicaid
 Association of Community Cancer Centers
 Total EBDCC budget: \$320,000
 Role: Principal Investigator

U01HL133996-01 (PI: Jane Hankins, MD, M.S) 07/01/2016-06/30/2022
 ReHASH: Re-aiming at Hydroxyurea Adherence for Sickle Cell with mHealth (Budget: \$4,290,004)
 Role: Co-Investigator

R01CA172253 (PI: Raymond Osarogiagbon, MBBS). 04/01/2013-07/31/2018
 Dissemination of a Corrective Intervention to Improve Lymph Node Examination in Resected Lung Cancer;
 National Cancer Institute
 Role: Co-Investigator

R073223660 (PI: Robert Davis, MD). 11/01/2016-10/01/2021
 ECOSYSTENN: Education and Clinical Outcomes in Youth with Sickle Cell in Tennessee
 Memphis Research Consortium
 Role: Co-Investigator

IH-1304-6147. PCORI. (PI: Raymond Osarogiagbon, MBBS). 02/03/2014 – 08/02/2017
 Building a multidisciplinary bridge across the quality chasm in thoracic oncology.
 The goal of this study, funded under PCORI's 'Improving Healthcare Systems' portfolio, is to evaluate barriers to implementation of multidisciplinary care for lung cancer patients from a multi-stakeholder perspective, leading up to a comparative effectiveness study of lung cancer patients' experience and outcomes within and outside a structured multidisciplinary environment.
 Role: Co-Investigator

S3595 (PI: Matthew Smeltzer, PhD) 01/01/2016 - 01/01/2017
 A quantitative evaluation to inform a future provider-level educational intervention to address suboptimal hydroxyurea utilization for sickle cell disease in Shelby County, TN.
 Memphis Research Consortium
 Role: Principal Investigator

Epidemiology and Biostatistics Support for (PI: Matthew Smeltzer, PhD) 03/15/2015 - 08/31/2017
 Baptist Lung Multidisciplinary (lung MD) Program
 Total Project Costs: \$118,925
 Role: Principal Investigator

R15 EB022345-01A1 (PI: Gary Bowlin, PhD) 04/17/2017 - 04/17/2019
 Neutrophil Response to Tissue Templates in Vitro: Implant Implications
 Total projected costs \$427,409
 Role: Co-Investigator, 5% effort

R21 EB024131-01 (PI: Gary Bowlin) 04/24/2017 - 04/24/2019
 Designing Drug-eluting Regeneration Templates to Down-regulate Neutrophil Extracellular Traps
 Role: Co-Investigator, 5% effort

R01HL098239-03 (PI: Russell Ware, MD, Ph.D., James Boyett, Ph.D.) 9/01/2010 – 08/31/2013
 To serve as the Data Coordinating Center, SCATE (Multicenter International RCT of Hydroxyurea Use in Pediatric Sickle Cell Disease).
 Role: Biostatistician

HRSA 10-094 – 1 U1EMC19331-01-00 (PI: Jane Hankins, MD, M.S) 09/01/2010 - 08/31/2014
Sickle Cell Treatment Demonstration Program: To enhance the prevention and treatment of sickle cell disease through coordination of service delivery, genetic counseling and testing, bundling of technical services, training of health professionals, and continuity of care for individuals with sickle cell disease.
Role: Biostatistician

R01DK088988-03 (PI: Claudia Hillenbrand, Ph.D., Jane Hankins, MD, M.S.) 08/01/2010 – 04/30/2014
To develop, implement, and validate in patients with hepatic iron overload an ultra short echo time MRI technique - R2*-UTE .
Role: Biostatistician