

JUSTIN M. BARNES

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EDUCATION & TRAINING

Washington University School of Medicine in St. Louis	2021-2025
<i>Residency, Radiation Oncology</i>	<i>St. Louis, MO</i>
<i>Assistant Chief Resident (2023 -)</i>	

St. Luke's Hospital	2020-2021
<i>Internship, Internal Medicine</i>	<i>St. Louis, MO</i>

Saint Louis University	2016-2020
<i>M.D.</i>	<i>St. Louis, MO</i>
<i>Distinction in Research</i>	
<i>AΩA</i>	

Brigham Young University	2014-2016
<i>M.S. in Statistics</i>	<i>Provo, UT</i>
Thesis: "Selection of classification method for predictive biomarker modeling based on internally-validated performance metrics and data characteristics."	
Thesis Advisor: Dennis Tolley, PhD, ASA	

Brigham Young University	2009-2016
<i>B.S. in Statistics (Biostatistics Emphasis)</i>	<i>Provo, UT</i>
Minor in Mathematics	
<i>Cum Laude</i>	

HONORS AND AWARDS

ASCO Annual Meeting Merit Award (2023)
ASCO Quality Care Symposium Merit Award (2022)
ASTRO Annual Meeting Travel Award (2022)
ASCO Annual Meeting Special Merit Award: Allen S. Lichter, MD, Endowed Merit Award (2022)
ASTRO Advocacy Day Travel Grant (2022)
Jayne M. Perkins Memorial Scholarship (2016-2020)
Stephen & Arlene Van Wagenen Pre-Medical Scholarship (2015-2016)
BYU Full Tuition Academic Scholarship (2012-2015)

LEADERSHIP EXPERIENCE

SLU Health Resource Center	January 2017 - January 2018
<i>Student Education Coordinator, Clinic Manager, and Executive Board Member</i>	<i>St. Louis, MO</i>

- Trained and prepared 170 student volunteers to provide health care at the free student-run-clinic.
- Organized volunteers for weekly clinics.
- Managed the clinic bimonthly.
- Participated in weekly board meetings to improve care at clinic.

SLU Cancer Interest Group

January 2017 - January 2018

ASCO CIG Representative, Radiation Oncology Coordinator

St. Louis, MO

- Served on a national focus group of ASCO cancer interest group leads to improve ASCO's support to medical students.
- Obtained two years of ASCO sponsorship for the interest group.
- Organized individual and panel oncologist presentations, shadowing, and research opportunities.

PROFESSIONAL SERVICE

Peer Reviewer

Reviewed manuscripts for the following journals:

- Journal of Clinical Oncology
- Cancer Epidemiology, Biomarkers & Prevention
- JCO Oncology Practice
- JAMA Network Open
- JAMA Otolaryngology – Head & Neck Surgery
- Health Services Research
- Frontiers in Public Health
- Medical Care

ASTRO

October 2022 - Present

Congressional Relations Subcommittee Member

ARRO

October 2022 - Present

Communications Subcommittee Member

OTHER VOLUNTEER EXPERIENCE

Boy Scouts of America

October 2016 - June 2020

Boy Scout Leader, Cub Scout Leader

St. Louis, MO

- Conducted weekly meetings to help boys learn life skills and achieve rank advancements.
- Supervised occasional overnight campouts and service events.

American Cancer Society

December 2016 - January 2018

Road to Recovery Driver

St. Louis, MO

- Drove cancer patients without transportation to therapy appointments twice per month.

PROSPECTIVE STUDIES

A Phase I Trial of Palliative Spatially Fractionated (GRID) Radiotherapy Using Intensity Modulated Proton Therapy

2023 - Present

Opened May 2023

- Faculty mentor: Anthony Apicelli, MD PhD
- Objective: To assess the safety and efficacy of proton GRID SBRT for large metastatic tumors requiring palliative radiotherapy. 20 patients will be enrolled, including 10 who previously underwent irradiation to the target area.

PUBLICATIONS

Barnes JM, Johnson KJ, Osazuwa-Peters N, Chino F. Changes in Cancer Mortality after Medicaid Expansion and the Role of Stage at Diagnosis. *J Natl Cancer Inst.* DOI: 10.1093/jnci/djad094. PMID: 37202350.

Dmukauskas M, Cioffi G, Neff C, Price M, Waite KA, Kruchko C, **Barnes JM**, Ostrom QT, Barnholtz-Sloan JS. Medicaid Expansion Is Associated with Increased One-year Survival for Primary Malignant Brain Tumors. *Accepted for publication in Neuro-Oncology Advances on 3/1/23.*

Barnes JM, Neff C, Han X, Kruchko C, Barnholtz-Sloan JS, Ostrom QT, Johnson KJ. The association of Medicaid expansion and pediatric cancer overall survival. *J Natl Cancer Inst.* 2023. DOI: 10.1093/jnci/djad024. PMID: 36782354.

Barnes JM, Chino JP, Chino F. Racial and Ethnic Disparities in Co-existing Cancer and COVID-19 Mortality in the US, 2020-2021. *J Gen Intern Med.* 2023. DOI: 10.1007/s11606-023-08069-8. PMID: 36750506.

Aboulella DK, Watts TL, Rocke DJ, **Barnes JM**, Osazuwa-Peters N, Adjei Boakye E. Reasons for parental refusal of human papillomavirus (HPV) vaccine during the COVID-19 pandemic in 2020. *Public Health.* 2023. DOI: 10.1016/j.puhe.2023.01.025. PMID: 36870828.

Barnes JM, Graboyes EM, Adjei Boakye E, Schootman M, Mowery YM, Chino JP, Moss HA, and Osazuwa-Peters N. Insurance coverage and forgoing medical appointments due to cost among cancer survivors after 2016. *JCO Oncology Practice.* 2023. DOI: 10.1200/OP.22.00587. PMID: 36649493.

Johnson KJ, **Barnes JM**, Delavar A, OConnell CP, Wang X. Facility patient volume and survival among individuals diagnosed with malignant central nervous system tumors. *J Neurooncol.* 2023. DOI: 10.1007/s11060-022-04227-w. PMID: 36609808.

Aboulella DK, Canick JE, **Barnes JM**, Rohde RL, Adjei Boakye E, Osazuwa-Peters E. Human papillomavirus vaccine uptake among teens before and during the COVID-19 pandemic in the United States. *Human Vaccines & Immunotherapeutics.* 2022; 18(7). DOI: 10.1080/21645515.2022.2148825. PMID: 36484115.

Barnes JM¹, Patel H*, Osazuwa-Peters N, Bierut LJ. Medicaid expansion status and suicide mortality in the United States. *JAMA Network Open.* 2022. DOI: 10.1001/jamanetworkopen.2022.17228. PMID: 35704315.

Barnes JM, Chino F. Short-term health insurance plans come up short for patients with cancer. *JAMA Oncology.* 2022. DOI: doi:10.1001/jamaoncol.2022.1624.

Adjei Boakye E, Polednik KM, Deshields TL, Sharma A, Molina Y, Schapira L, **Barnes JM**, Osazuwa-Peters N. Emotional distress among survivors of Adolescent and Young Adult cancer or adult cancer. *Annals of Epidemiology.* 2022. DOI: 10.1016/j.annepidem.2022.03.014. PMID: 35405345.

Barnes JM, Graboyes EM, Adjei Boakye E, Kent EE, Scherrer JF, Park EM, Rosenstein DL, Mowery YM, Chino JP, Brizel DM, Osazuwa-Peters N. The Affordable Care Act and Suicide Incidence Among Adults with Cancer. *Journal of Cancer Survivorship.* 2022. DOI: 10.1007/s11764-022-01205-z. PMID: 35368225.

Kana LA, Graboyes EM, Quan D, Grauer J, Osazuwa-Peters N, **Barnes JM**, Cramer JD. Association of Changes in Medicaid Dental Benefits with Localized Diagnosis of Oral Cavity Cancer. *JAMA Oncology.* 2022. DOI: 10.1001/jamaoncol.2022.0149. PMID: 35357404.

¹Co-first authors*

Taylor DB, Osazuwa-Peters OL, Okafor SI, Boakye EA, Kuziez D, Perera C, Simpson MC, **Barnes JM**, Bulbul MG, Cannon TY, Watts TL. Differential Outcomes Among Survivors of Head and Neck Cancer Belonging to Racial and Ethnic Minority Groups. *JAMA OtolaryngologyHead Neck Surgery*. 2021. DOI: 10.1001/jamaoto.2021.3425. PMID: 34940784.

Barnes JM² & Tabibi T*, Shah A, Osazuwa-Peters N, Johnson KJ, and Brown DS. HPV vaccination and trends in cervical cancer incidence and mortality in the United States. *JAMA Pediatrics*. 2021. DOI: 10.1001/jamapediatrics.2021.4807. PMID: 34842903.

Johnson KJ, Wang X, **Barnes JM**, Delavar A. Residential distance from the reporting hospital and survival among adolescents, and young adults diagnosed with CNS tumors. *J Neurooncol*. 2021. DOI: 10.1007/s11060-021-03885-6. PMID: 34767146.

Barnes JM, Johnson KJ, Osazuwa-Peters N, Srivastava AJ, and Perkins SM. Risk of suicide among individuals with a history of childhood cancer. *Cancer*. 2021. DOI: 10.1002/cncr.33957. PMID: 34693522.

Barnes JM, Johnson KJ, Adjei Boakye E, Schapira L, Akinyemiju T, Park EM, Graboyes EM, and Osazuwa-Peters N. Early Medicaid expansion and cancer mortality. *JNCI*. 2021; djab135. DOI: 10.1093/jnci/djab135. PMID: 34259321.

Osazuwa-Peters N, **Barnes JM**, Okafor S, Taylor D, Hussaini AS, Adjei Boakye E, Simpson MC, Graboyes EM, Lee WT. Incidence and Risk of Suicide among Patients with Head and Neck Cancer in Rural, Urban, and Metropolitan Areas. *JAMA Otolaryngology - Head Neck Surgery*. 2021. doi:10.1001/jamaoto.2021.1728. PMID: 34297790.

Roy A, Brennenman RJ, Hogan J, **Barnes JM**, Huang Y, Morris R, Goddu S, Altman M, Garcia-Ramirez J, Li H, Zoberi JE, Bullock A, Kim E, Smith S, Figenshau R, Andriole GL, Baumann BC, Michalski JM, Gay HA. Does the sequence of high-dose rate brachytherapy boost and IMRT for prostate cancer impact early disease and toxicity outcomes? Results from a single institution analysis. *Clinical & Translational Radiation Oncology*. 2021; 29: 47-53. doi: 10.1016/j.ctro.2021.05.004. PMID: 34136665.

Johnson KJ, Wang X, **Barnes JM**, Delavar A. Associations between geographic residence and U.S. adolescent and young adult cancer stage and survival. *Cancer*. 2021; 127(19):3640-3650. doi:10.1002/cncr.33667. PMID: 34236080.

Osazuwa-Peters N, **Barnes JM**, Megwalu U, Adjei Boakye E, Johnston KJ, Gaubatz ME, Johnson KJ, Panth N, Sethi RKV, & Varvares MA. State Medicaid expansion status, insurance coverage and stage at diagnosis in head and neck cancer patients. *Oral Oncology*. 2020; 110:104870. doi: 10.1016/j.oraloncology.2020.104870. PMID: 32629408.

Panth N, **Barnes JM**, Sethi RKV, Simpson MC, Boakye EA, Varvares MA, Osazuwa-Peters N. Change in stage of presentation of head and neck cancer before and after the Affordable Care Act. *Cancer Epidemiology*. 2020; 67:101763. doi: 10.1016/j.canep.2020.101763. PMID: 32593161.

Barnes JM, Johnson KJ, Adjei Boakye E, Varvares MA, & Osazuwa-Peters N. Impact of the Affordable Care Act on cost-related medication underuse in non-elderly adult cancer survivors. *Cancer*. 2020; 126(12):2892-2899. doi: 10.1002/cncr.32836. PMID: 32187662.

Barnes JM, Barker A, King A, & Johnson KJ. Association of Medicaid expansion with insurance coverage among children with cancer. *JAMA Pediatrics*. 2020; 174(6):1-11. doi: 10.1001/jamapediatrics.2020.0052. PMID: 32202616.

Delavar A, **Barnes J**, Li J, & Johnson KJ. Associations Between Race/Ethnicity and US Childhood and Adolescent Cancer Survival by Treatment Amenability. *JAMA Pediatrics*. 2020; 174(5):1-9. doi: 10.1001/jamapediatrics.2019.6074. PMID: 32091555.

²Co-first authors*

Barnes JM, Brown DS, Harris JK, King AK, & Johnson KJ. Impact of the Affordable Care Act Dependent Coverage Provision in young adult cancer patients by demographic and socioeconomic characteristics. *Cancer Causes & Control*. 2020; 31(1):33-42. doi: 10.1007/s10552-019-01246-3. PMID: 31696421.

Barnes JM, Srivastava A, Gabani P, & Perkins S. Associations of early Medicaid expansion with insurance status and stage at diagnosis among cancer patients receiving radiation therapy. *Practical Radiation Oncology*. 2019; 10(4):e207-e218. doi:10.1016/j.prro.2019.10.003. PMID: 31634633.

Barnes JM, Gabani P, Sanders M, Chundury A, Altman M, Garcia-Ramirez J, Li H, Zoberi JE, Baumann B, & Gay HA. Single Fraction High Dose Rate Brachytherapy as Monotherapy for Low and Intermediate Risk Prostate Cancer: Toxicities and Early Outcomes from a Single Institutional Experience. *Journal of Contemporary Brachytherapy*. 2019; 11(5): 399-408. doi:10.5114/jcb.2019.89367. PMID: 31749847.

Panth N, **Barnes JM**, Sethi R KV, Varvares MA, & Osazuwa-Peters N. Socioeconomic and Demographic Variation in Insurance Coverage among Head and Neck Cancer Patients after the Affordable Care Act. *JAMA Otolaryngology-Head & Neck Surgery*. 2019; 145(12):1144-1149. doi:10.1001/jamaoto.2019.2724. PMID: 31670798.

Barnes J, Kennedy WR, Fischer-Valuck BW, Baumann BC, Michalski JM, & Gay HA. Treatment patterns of high-dose-rate and low-dose-rate brachytherapy as monotherapy for prostate cancer. *Journal of Contemporary Brachytherapy*. 2019; 11(4): 320-328. doi:10.5114/jcb.2019.86974. PMID: 31523232.

Gabani P, Lin AJ, **Barnes J**, Oppelt P, Adkins DA, Rich JT, Zevallos JP, Daly MD, Gay HA, & Thorstad WL. Radiation Therapy Dose De-Escalation Compared to Standard Dose Radiation Therapy in Definitive Treatment of HPV-Positive Oropharyngeal Squamous Cell Carcinoma. *Radiotherapy and Oncology*. 2019; 134:81-88. DOI: 10.1016/j.radonc.2019.01.016. PMID: 31005228.

Barnes JM, Harris JK, Brown DS, King AK, & Johnson KJ. Impacts of the Affordable Care Act Dependent Coverage Provision on Young Adults With Cancer. *American Journal of Preventive Medicine*. 2019; 56(5): 716-726. DOI: 10.1016/j.amepre.2018.12.011. PMID: 30898535.

Xu P, **Barnes JM**, Choe EM, Syed JR, Siddiqui SA (2019). Variability of Retail Pricing of Generic Urologic Medications in a Major US Metropolitan Area. *Urology*. 2019; 125:29-33. DOI: 10.1016/j.urology.2018.07.045. PMID: 30170089.

Gabani P, **Barnes J**, Lin A, Rudra S, Oppelt P, Adkins D, Rich J, Zevallos J, Daly M, Gay H, & Thorstad W. Induction chemotherapy in the treatment of nasopharyngeal carcinoma: Clinical outcomes and patterns of care. *Cancer Medicine*. 2018; 7(8): 3592-3603. DOI: 10.1002/cam4.1626. PMID: 30008178.

Syed JR, Xu P, Fisher R, May A, **Barnes J**, Darwish O, Dang B, Adsul P, & Siddiqui S. Outcomes of renal salvage for penetrating renal trauma: a single institution experience. *Canadian Journal of Urology*. 2018; 25(3):9323-9327. PMID: 29900820.

Anand S, **Barnes JM**, Young S, Garcia D, Tolley HD, Kauwe JSK, & Graves SW. Discovery and Confirmation of Diagnostic Serum Lipid Biomarkers for Alzheimer's Disease Using Direct Infusion Mass Spectrometry. *Journal of Alzheimers Disease*. 2017; 59(1): 277-290. DOI: 10.3233/JAD-170035. PMID: 28598845.

Kedia K, Smith SF, Wright AH, **Barnes J**, Tolley HD, Esplin MS, & Graves SW. Global 'Omics' Evaluation of Human Placental Responses to Preeclamptic Conditions. *American Journal of Obstetrics and Gynecology*. 2016; 215(2): 238.e1-20. DOI: 10.1016/j.ajog.2016.03.004. PMID: 26970495.

SELECT PRESENTATIONS

Barnes JM, Chino F. Changes in cancer mortality rates after Medicaid expansion under the Affordable Care Act and the role of changes in stage at diagnosis. Rapid Oral presentation at the 2022 ASCO Quality Care Symposium, Chicago, IL, October 2022.

Barnes JM, Johnson KJ, Osazuwa-Peters N, Spraker MB. The Impact of Federal Poverty Level on the Association Between Insurance Status and Overall Survival Among Adults With Cancer. Oral presentation at the 2022 ASTRO Annual Meeting, San Antonio, TX, October 2022.

Barnes JM, Neff C, Kruchko C, Barnholtz-Sloan J, Ostrom QT, Johnson KJ. Association of Medicaid expansion under the Affordable Care Act and overall survival among children with cancer. Oral presentation at the 2022 ASCO Annual Meeting, Chicago, IL, June 2022.

Barnes JM, Johnston K, Osazuwa-Peters N. State public welfare spending and racial/ethnic disparities in overall survival among adults with cancer. Poster discussion presentation at the 2022 ASCO Annual Meeting, Chicago, IL, June 2022.

Insurance Disparities and Access to Cancer Care. Invited panelist in the Diversity, Equity and Inclusion in Radiation Oncology (DEInRO) education series. June 2021.

Barnes JM, Adjei Boakye E, Schootman M, Graboyes EM, & Osazuwa-Peters N. Insurance coverage and care affordability in cancer survivors in 2016-2019. Poster discussion presentation at the ASCO 2021 Annual Meeting. Virtual conference, June 2021.

Barnes JM, Johnson KJ, & Osazuwa-Peters N. Associations of Early Medicaid Expansion and Cancer Mortality. Oral presentation at the 2020 ASTRO Annual Meeting. Virtual conference, October 2020.

Barnes J & Osazuwa-Peters N. Association of the Affordable Care Act and the Risk of Suicide Among Cancer Patients. Oral presentation at the 2019 ASTRO Annual Meeting. Chicago, IL, September 2019.

Barnes JM, Johnson KJ, Boakye EA, Varvares MA, & Osazuwa-Peters N. The Affordable Care Act and cost-related medication non-compliance in cancer survivors. Oral presentation at the 2019 ASCO Annual Meeting. Chicago, IL, June 2019.

TEXTBOOK CHAPTERS

Tolley HD, **Barnes J** & Freeman M. Survival Analysis. In: Freeman MD and Zeegers M. *Forensic Epidemiology: Principles and Practice*. Cambridge, MA: Academic Press; 2016.

OTHER PUBLICATIONS

Barnes J. Improper Statistical Analysis: A Cause of Poor Translation of New Biomarkers into Clinical Practice. *The MSPress Journal*. 2017; 4(1).

TECHNICAL STRENGTHS

Statistical Software R

FOREIGN LANGUAGES

Italian	<i>Good Proficiency</i>
Spanish	<i>Basic/Limited Proficiency</i>

Personal Webpage

<https://justinmbarnes.netlify.app>

Web of Science (Publons)

<https://www.webofscience.com/wos/author/record/8679>

Scopus

<https://www.scopus.com/authid/detail.uri?authorId=57203039984>

ORCID iD

<https://orcid.org/0000-0003-2812-0824>

Google Scholar

<https://scholar.google.com/citations?user=5mSezw4AAAAJ>

PubMed MyBibliography

<https://www.ncbi.nlm.nih.gov/myncbi/justin.barnes.1/bibliography/>