

Karna Sura, MD

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WORK HISTORY

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| Medical Director of Radiation Oncology | Mohawk Valley Health System, December 2018-Present Utica, NY |
| Clinical Assistant Professor of Radiation Oncology | Upstate Medical University, September 2018-Present Syracuse, NY |

EDUCATION & TRAINING

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|------------------------------|---|
| Radiation Oncology Residency | Beaumont Health, July 2014 - June 2018 Royal Oak, MI |
| Transitional Year | Beaumont Health, July 2013- June 2014 Royal Oak, MI |
| M.D. | Drexel University College of Medicine, August 2009 - May 2013 Philadelphia, PA |
| B.S. | Biological Sciences Drexel University, September 2006 - May 2009 Philadelphia, PA |

HONORS & AWARDS

- Resident Peer Reviewer Training Program, 2020
- Outstanding Young Professional, The Genesis Group of the Mohawk Valley Region, 2019
- Teacher of the Year, Upstate Medical University Department of Radiation Oncology, 2019
- Third Best Abstract Presentation, ACRO annual meeting, 2018
- ACRO Educational Grant, 2016
- Merit-based Travel Award, Penn clinical trials in oncology course and workshop, 2016
- Young Oncologist Essay Award Winner, 100th American Radium Society annual meeting, 2016
- Poster Award Winner, 100th American Radium Society annual meeting, 2016
- Medical Humanities Scholar, 2009-2013
- Bachelor of Science: Magna Cum Laude, 2009

GRANTS

- The Advocates, "Prostate simulation" \$3,715

CERTIFICATIONS

- Optune Certification, 2016
- Certificate of Advanced Training in Pain Management, 2016

- Certificate of Advanced Training in Medical Education, 2014

PUBLICATIONS

- (1) O.M. Odiase, D. Huang, **K.T. Sura** (2021) Radiation oncology education and experience in the undergraduate medical setting. *Medical Education Online*. Epub ahead of print.
- (2) **K. Sura**, J.W. Lischalk, I.S. Grills, A.J. Mundt, L.D. Wilson, N. Vapiwala (2019) Modern Perspectives on Radiation Oncology Residency Expansion, Fellowship Evolution, and Employment Satisfaction. *Journal of the American College of Radiology*. 16 (5): 749-753.
- (3) **K. Sura**, M. Repka, J.W. Lischalk. (2019) Lessons Learned from Mock Radiation Oncology Interviews. *Journal of the American College of Radiology*. 16 (1): 79-81.
- (4) **K. Sura**, H. Ye, C.C. Vu, J.M. Robertson, P. Kabolizadeh. (2018) How many lymph nodes are enough? Defining the Optimal Lymph Node Dissection in Stage I-III Gastric Cancer using the National Cancer Database. *J Gastrointestinal Oncol*. 9(6): 1168.
- (5) **K. Sura**, P. Chen. (2018) Determining the Optimal Treatment of Locally Advanced Breast Cancer with Sequelae of Dermatomyositis. *International Journal of Radiation Oncology·Biology·Physics*. Epub ahead of print
- (6) **K. Sura**, J.W. Lischalk, I.S. Grills, A.J. Mundt, L.D. Wilson, N. Vapiwala. (2017) A contemporary analysis of the prevalence of illegal match questions during medical student residency interviews. *International Journal of Radiation Oncology·Biology·Physics*. 100 (4): 1075-1078.
- (7) **K. Sura**, I.S. Grills, C.C. Vu, C.W. Stevens, H. Ye, T.M. Guerrero. (2017) Improved Survival with Increased Time-To-Radiation (TTR) and Sequential Chemotherapy After Surgery for pN2 Non-Small Cell Lung Cancer. *Clinical Lung Cancer*. 19(2): e185-194.
- (8) J.W. Lischalk, **K. Sura**, M. Repka, J. Leeman, V. Osborn, S. Engel, P. Barry. (2017) First Annual Report of the Resident Committee of the American College of Radiation Oncology. *Journal of Radiation Oncology*. Epub ahead of print.
- (9) **K. Sura**, L.D. Wilson, I.S. Grills. (2017) Comparison of Self-Reported Data on Student Doctor Network (SDN) to Objective Data of the National Resident Matching Program (NRMP) for Individuals Applying to Radiation Oncology. *Journal of the American College of Radiology*. 14 (12): 1594-1597.
- (10) **K. Sura**, J.W. Lischalk, J. Leckie, J.S. Welsh, A.J. Mundt, E. Fernandez (2017) Webinar-based Contouring Education for Residents. *Journal of the American College of Radiology*. 14 (8): 1074-1079.e3
- (11) M.D. Johnson, **K. Sura**, V. Mangona, A. Glick, M. Wallace, H. Ye, I.S. Grills (2017) Matched Pair Analysis of High Dose versus Standard Dose Definitive Chemoradiation for Locally Advanced Non-small Cell Lung Cancer. *Clinical Lung Cancer* 18 (2): 149-155.
- (12) **K. Sura**, J.W. Lischalk, J. Leckie, I.S. Grills, N. Vapiwala (2016) Applying for Radiation Oncology Residency: Webinar-Based Medical Student Mentorship Outreach. *International Journal of Radiation Oncology·Biology·Physics* 97 (1): 11-12.
- (13) N.R. Patel, R. Lanciano, **K. Sura**, J. Yang, J. Lamond, J. Feng, M. Good, E.J. Gracely, L. Komarnicky, L. Brady (2015) Stereotactic body radiotherapy for re-irradiation of lung cancer recurrence with lower biological effective doses. *J Radiat Oncol*. 4 (1): 65-70.

- (14) A.S. Sura and K. Sura (2013) Unofficial Guide to Accelerated, Combined, BA/MD, and BS/MD programs: Complete Edition. *CreateSpace*.
- (15) J. Ying, K. Sura, I. Fischer (2012) Differential Effects of Distinct CNS Regions on Cell Migration and Axonal Extension of Neural Precursor Transplants. *Journal of Neuroscience Research*. 90 (11): 2065-73.
- (16) A. Sethi and K. Sura (2010) Unofficial Guide to Accelerated, Combined, BA/MD, and BS/MD programs. *CreateSpace*.
- (17) T.K Makar, C.T. Bever, I.S. Singh, W. Royal, S.N. Sahu, T.P. Sura, S. Sultana, K.T. Sura, N. Patel, S. Dhib-Jalbut, D. Trisler (2009) Brain-derived neurotrophic factor gene delivery in an animal model of multiple sclerosis using bone marrow stem cells as a vehicle. *J. Neuroimmunol*. 210, 40-51.
- (18) T. K. Makar, D. Trisler, K. T. Sura, S. Sultana, N. Patel, C. T. Bever (2008) Brain derived neurotrophic factor treatment reduces inflammation and apoptosis in experimental allergic encephalomyelitis. *J. Neurol Sci*. 270,70-76.
- (19) T. K. Makar, D. Trisler, C. T. Bever, J. E. Goolsby, K. T. Sura, S. Balasubramanian, S. Sultana, N. Patel, D. Ford, I.S. Singh, A. Gupta, R. M. Valenzuela, S. Dhib-Jalbut (2008) Stem cell based delivery of IFN- β reduces relapses in experimental autoimmune encephalomyelitis *J. Neuroimmunol* 196, 67-81.
- (20) K. Sura (2008) Stem Cells: The Totipotent Truth. The 33rd: Drexel Publishing.

PRESENTATIONS

- (1) O.M. Odiase, K. Sura (2020) Radiation Oncology Education and Experience in the Undergraduate Medical Setting. *Poster presentation*. ASTRO 2020, Online.
- (2) K Sura, M Gerrer (2020) How Do Patients Spend Their Medical-Expense Financial Grants? *Poster presentation*. ACRO 2020, Ft. Lauderdale, FL.
- (3) K Sura, S Galoforo, K Buelow, M Dabjan, IS Grills, GD Wilson (2018) IL-6 Receptor Antibody Preferentially Affects Tumors in the Repopulation Phase of Growth. *Poster presentation*. ASTRO 2018, San Antonio, TX.
- (4) R Levitin, K Sura, JT Dilworth, PY Chen (2018) Equivalent Outcomes for Accelerated Partial Breast Irradiation for Invasive Lobular Carcinoma: A Matched Pair Analysis. *Poster presentation*. ASTRO 2018, San Antonio, TX.
- (5) X Ding, X Li, J Zhou, C Stevens, K Sura, P Chinnaiyan, I Grills, Y Di, P Kabolizadeh (2018) Explore the future of of proton hypo-fractionation treatment-Spot-scanning Proton Arc therapy. *Poster presentation*. ESTRO 2018, Barcelona, Spain.
- (6) K. Sura, S. Nandalur (2018) HDR prostate brachytherapy. *Online presentation*. May ARROCase Challenge.
- (7) K. Sura, J.W. Lischalk, I.S. Grills, A.J Mundt, L.D Wilson, N. Vapiwala (2018) Impact of Mentorship on Medical Students Applying to Radiation Oncology Residency. *Oral presentation*. ACRO 2018, Fort Lauderdale, FL.
- (8) K. Sura, E. Olariu, I.S. Grills, K.E. Tech, A. Krishnan, A. Wang, P. Chinnaiyan (2017) Limitations of MR Perfusion for Predicting Tumor Progression after Radiosurgery for Brain Metastases. *Oral*

presentation. RSNA 2017, Chicago, IL.

(9) **K. Sura**, A. Maitz, I.S. Grills, P.Y. Chen, P. Chinnaiyan (2017) Arteriovenous malformation (AVM) *Online presentation.* May ARROCase Challenge.

(10) **K. Sura**, L.D. Wilson, I.S. Grills (2017) Comparison of Self-Reported Data on Student Doctor Network (SDN) to Objective Data of the National Resident Matching Program (NRMP) for Individuals Applying to Radiation Oncology. *Poster presentation.* 59th ASTRO annual meeting, San Diego, CA.

(11) **K. Sura**, I.S. Grills, P. Kabolizadeh, J. Zhou, X. Li, D. Yan, D.J. Krauss, P. Chinnaiyan, X. Ding (2017) Feasibility of Spot-Scanning Proton Arc (SPArc) Fractionated Radiosurgery to the Post-Operative Cavity for Brain Metastases. *Poster presentation.* 59th ASTRO annual meeting, San Diego, CA.

(12) C.C. Vu, **K. Sura**, T.B. Lanni, G.S. Gustafson, D.J. Krauss. Cost-Effectiveness of Single-Fraction High-Dose Rate Brachytherapy versus Intensity Modulated Radiation Therapy for the Treatment of Low-Intermediate Risk Prostate Cancer. *Poster presentation.* 59th ASTRO annual meeting, San Diego, CA.

(13) I.S. Grills, K. Lee, R. Hymas, H. Ye, **K. Sura**, M.D. Johnson, N. Abro, A. Caruso, E. Abbott, R. Deraniyagala, C.W. Stevens, R. Welsh (2017) Operable Stage I Non-Small Cell Lung Cancer treated with Stereotactic Radiotherapy (SBRT) Compared to Surgical Lobectomy: Failure Patterns and Implications for Management. *Oral presentation.* 59th ASTRO annual meeting, San Diego, CA.

(14) **K. Sura**, H. Ye, C.C. Vu, J.M. Robertson, P. Kabolizadeh (2017) How many lymph nodes is enough? Defining the optimal lymph node dissection in stage I-III gastric cancer using the National Cancer Database. *Poster presentation.* 2017 ASCO annual meeting.

(15) F.N. Ogunleye, **K. Sura**, L. Blankenship, D. Ezekwudo, B. Gbadamosi, I.A. Jaiyesimi, P. Kabolizadeh (2017) Treatment patterns for resected gastric cancer using the National Cancer Database. *Poster presentation.* 2017 ASCO annual meeting.

(16) **K. Sura**, P. Kabolizadeh, I.S. Grills, A.H. Maitz, X. Li, J. Zhou, D. Yan, C.W. Stevens, P. Chinnaiyan, X. Ding (2017) Feasibility of Spot-Scanning Proton Arc Radiosurgery of a Single Peripheral Brain Metastasis. *Poster presentation.* 56th annual conference of the Participle Therapy Co-Operative Group, Japan.

(17) **K. Sura**, R. Gemayel, B. Nguyen, H. Ye, E. Sebastian, A. Limbacher, K.G. Blas, Z.A. Seymour, D.J. Krauss (2017) Correlating Acute And Chronic Genitourinary Toxicity And Dose-volume Parameters In Ultrasound-based Planning For High-dose Rate Prostate Brachytherapy. *Poster presentation.* 2017 American Brachytherapy Society annual meeting, Boston, MA.

(18) B. Nguyen, **K. Sura**, R. Gemayel, H. Ye, E. Sebastian, A. Limbacher, K.G. Blas, Z.A. Seymour, D.J. Krauss (2017) Correlating Acute and Chronic Gastrointestinal Toxicity and Dose-volume Parameters Using Surrogate Rectal Contours in Ultrasound-based Planning for High-dose Rate Prostate Brachytherapy. *Poster presentation.* 2017 American Brachytherapy Society annual meeting, Boston, MA.

(19) **K. Sura**, C. C. Vu, M. D. Johnson, H. Ye, C. W. Stevens, T. M. Guerrero, and I. S. Grills (2016) Intensity Modulated Radiation Therapy (IMRT) Utilization and Practice Patterns in the Management of

Locally Advanced Non-Small Cell Lung Cancer (NSCLC) using the National Cancer Database (NCDB). *Poster presentation*. 58th ASTRO annual meeting, Boston, MA.

(20) C. Vu, K. Sura, P. Chen, J. Dilworth (2016) Regional Nodal Irradiation in Breast Cancer Patients with Clinical N1 and Pathologic N0 Disease After Neoadjuvant Chemotherapy: An Analysis of the National Cancer Data Base. *Poster presentation*. 58th ASTRO annual meeting, Boston, MA.

(21) W.G. Wang, K. Sura, J. Robertson, D. Krauss, P. Chen, I. Grills (2016) Outcomes and Toxicity for Treatment of Adrenal Metastases with Radiation Therapy. *Poster presentation*. 58th ASTRO annual meeting, Boston, MA.

(22) K. Sura, D.J. Krauss, I.S. Grills (2016) Gamma Knife Radiosurgery (GKRS) in Poor Performance Status Patients. *Oral presentation*. 4th Annual Radiation Oncology Resident Research Meeting, Plymouth, MI.

(23) K. Sura, I.S. Grills, C.C. Vu, C.W. Stevens, H. Ye, and T.M. Guerrero (2016) Improved Survival with Delayed Radiation and Sequential Chemotherapy after Surgery for pN2 Non-Small Lung Cancer. *Oral presentation*. 100th ARS annual meeting, Philadelphia, PA.

(24) C.C Vu, K. Sura, M.S. Jawad, S.R. Nandalur (2016) Adjuvant Chemoradiation is Associated with Improved Overall Survival in Patients with Stage III Endometrial Cancer: An Analysis of the National Cancer Data Base. *Poster presentation*. 100th ARS annual meeting, Philadelphia, PA.

(25) K. Sura (2016) Trigeminal neuralgia. *Online presentation*. January ARROCase Challenge.

(26) K. Sura, H. Ye, I.S. Grills (2015) Socioeconomic Factors Impact Probability of Receiving Radiation As Part of Breast Conserving Therapy for Early-Stage Breast Cancer. *Poster presentation*. 57th ASTRO annual meeting, San Antonio, TX.

(27) I.S. Grills, M.D. Johnson, K. Sura, H. Ye, J.L Wloch, S.K Prausa, G.S Gustafson, D. Yan (2015) Advanced Radiation Therapy (RT) Planning and Delivery Methods Impact Survival in Locally Advanced (LA) NSCLC. *Poster presentation*. 57th ASTRO annual meeting, San Antonio, TX.

(28) M.D. Johnson, K. Sura, K.G. Blas, H. Ye, I.S. Grills (2015) Salvage Treatment for Regional Recurrence Following Definitive Surgery or Stereotactic Body Radiation Therapy (SBRT) for Early-Stage Non-Small Cell Lung Cancer (NSCLC). *Poster presentation*. 57th ASTRO annual meeting, San Antonio, TX.

(29) K. Sura, M.D. Johnson, H. Ye, A. Glick, V.S. Mangona, I.S. Grills (2014) Matched Pair Analysis of High Dose Versus Standard Dose Definitive Chemoradiation Therapy for Locally Advanced Non-small Cell Lung Cancer. *Oral presentation*. 56th ASTRO annual meeting, San Francisco, CA.

(30) K. Sura, K. Tan, G.M. Freedman, A.B. Troxel, L.L. Lin (2013) Factors Affecting Breast Cancer Patient Quality of Life in Association With Radiation. *Oral presentation*. 55th ASTRO annual meeting, Atlanta, GA.

(31) N. R Patel, K. Sura, M. Wong, S. Joyce, J.R. Poli (2012) Cost-effective means to Reduce High Grade Mucositis for Patient Treated with Head & Neck Cancers. *Poster presentation*. RSNA annual meeting, Chicago, IL.

(32) K. Sura and B. Bobrin (2012) Minocycline Use in Patient with Multi-Drug-Intolerant Neuropathy. *Poster presentation*. American Neuropsychiatric Association 23rd Annual Meeting, New Orleans, LA.

(33) K.T. Sura, Y. Jin, I. Fischer (2010) Effect of environment on the properties neural precursor transplants in the CNS. *Poster presentation*. Discover Day 2010, Drexel College of Medicine

(34) K.B. Long, J. Merkt, K. Sura, C.M. Artlett, and E.P. Blankenhorn (2010) Analysis of Disease Progression and Severity in the Tsk2 Mouse Model of Scleroderma. *Poster presentation*. Discover Day

2010, Drexel College of Medicine.

(35) K.B. Long, C. Kreutzberger, **K. Sura**, C.M. Artlett, and E.P. Blankenhorn (2010) Developing Pathology in a Mouse Model of Scleroderma, *Tsk2/+*. *Poster presentation*. 19th Annual Infection and Immunity Forum, Eastern PA Branch of ASM, Drexel University College of Medicine

(36) **K. Sura**, E. Wong, and B. Ritz (2009) Development of an Alternative to the Chromium Release Natural Killer Cell Cytotoxicity Assay Using a Florescent Dye. *Poster presentation*. Drexel COAS Research Day, Philadelphia, PA.

(37) **K. Sura**, S. Sultana, D. Trisler, C. Bever and T. Makar (2006) Molecular Characterization of Bone Marrow Derived CD34+ Stem Cells and Their Differentiation Potential. *Poster presentation*. VA Research Day, Baltimore, MD.

(38) T. Makar, D. Trisler, C. Bever, **K. Sura**, S. Sultana, D. Ford, S. Dhib- Jalbut (2006) Retrovirus-mediated CNS delivery of IFN-beta enhances therapeutic potential in mouse model of Multiple Sclerosis. *Poster presentation*. Society for Neuroscience, October 14-18, Atlanta, GA.

LEADERSHIP & SERVICE EXPERIENCES

| | |
|------------------------|---|
| January 2021 - Present | Radiation Oncology Finance Committee |
| August 2020 - Present | Upstate Medical University medical school interviewer |
| July 2017 - April 2020 | IJROBP Resident Peer Reviewer Training Program |
| July 2016 - June 2017 | Chief Resident, Department of Radiation Oncology, Beaumont Health |
| June 2016 - June 2017 | Member, Beaumont Resident/Fellow Council |
| June 2016 - April 2018 | Executive Resident Committee, Webinars, American College of Radiation Oncology (ACRO) |
| June 2015 - Present | Member, Association of Residents in Radiation Oncology (ARRO) education sub-committee |

MENTORSHIP

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|-------------------------|---|
| February 2019 - Present | Otasowie Odiase, SUNY Upstate Medical Student |
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PROFESSIONAL MEMBERSHIPS & SOCIETIES

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|----------------|---|
| 2014 - Present | American Board of Radiology (ABR) |
| 2014 - Present | American College of Radiation Oncology (ACRO) |
| 2014 - Present | American College of Radiology (ACR) |
| 2014 - Present | American Society for Radiation Oncology (ASTRO) |