

A. IDENTIFYING DATA

Zaid A. Siddiqui, M.D.
UPMC Hillman Cancer Center
5230 Centre Ave
Pittsburgh, PA 15232

B. ACADEMIC HISTORY

Residency Training

July 2016 – June 2020 Residency, Radiation Oncology, Beaumont Health, Royal Oak, MI (Program Director: Inga S. Grills, M.D.)

July 2015 – June 2016 Internship, Transitional Year, Beaumont Health, Royal Oak, MI (Program Director: Francisco Davila, M.D.)

Colleges Attended

August 2011- June 2015 M.D., Loyola University Chicago Stritch School of Medicine
Maywood, IL (Honors in Research; Honors in Bioethics and Professionalism)

August 2007 – June 2011 B.S., Biological Chemistry, Chemistry, Economics, University of Chicago
Hyde Park, IL (Dean's List 2007-2011)

Professional Certification

Nvidia Deep Learning Institute University Ambassador (2019)
Deep Learning Nanodegree – Udacity (2018)

Licensure

Medical License (with CS) – State of Michigan – 2017 – 2022
Medical License - State of Pennsylvania - 2020
ACLS – American Heart Association – 2015 – 2020

C. AWARDS

2016 - Gold Humanism Society
2014 - Alpha Omega Alpha

D. FUNDING

Complete:

July 2018 – June 2019 Funder: RSNA R&E Foundation
Title: A Deep Learning Framework for Radiotherapy Delivery in Thoracic Oncology
Role: Primary Investigator (Advisor: Thomas M. Guerrero, M.D., Ph.D.)

E. CLINICAL EXPERIENCE

Modalities – SRS/SBRT, Leksell Gamma Knife, Linac SRS (Brainlab), VMAT, Active Breathing Control (ABC), 4D image-guidance, proton therapy, functional avoidance (lung), adaptive radiotherapy (lung and H/N), HDR brachytherapy (including interstitial and intracavitary Gyn, interstitial prostate, interstitial breast, interstitial H/N), Zeiss Intrabeam IORT (breast), I125 eye plaque brachytherapy, Sr90 coronary brachytherapy
Radiation Oncology Software – Proficiency with Mosaiq Record/Verify Systems, Epic EMR, Pinnacle TPS, MIM software, Raystation TPS, Aria/Eclipse

F. TEACHING

Tutoring
March 2019 – present Nvidia Deep Learning Institute Instructor and Teaching Assistant
July 2018 – June 2019 Chief Resident, Radiation Oncology
July 2013 – December 2015 Stritch School of Medicine – Peer Tutor
July 2013 – June 2014 Medicine Clerkship Committee, Stritch School of Medicine
July 2013 – June 2014 Surgery Clerkship Committee, Stritch School of Medicine

Medical Student Mentorship

- July 2017 – June 2019 Alex Yang, MD candidate, co-mentor for EMBARK longitudinal research project, Project Title: “Comparison of Radiotherapy Fractionation for Limited Stage Small-Cell Lung Cancer”
- July 2016 – June 2018 Justin Yuan, MD candidate, co-mentor for EMBARK longitudinal research project, Project Title: “Gamma Knife Radiosurgery for Small Cell Lung Cancer Brain Metastases” – awarded **2019 Ravitz Foundation Embark Competitive Scholarship Award**
- July 2015 – June 2017 Brandon Nguyen, MD candidate, co-mentor for EMBARK longitudinal research project, Project Title: “Outcomes of Radiosurgery for Pituitary Adenomas” – awarded **2018 Newman Family Foundation Embark Competitive Scholarship Award**

G. SERVICE

Professional Societies

- July 2017 – present Resident Member, ACRO
 July 2015 – present Resident Member, ASTRO
 July 2015 – present Resident Member, RSNA
 July 2012 – present Member, American Medical Association

Ad Hoc Reviewer

- March 2018 to present *Translational Andrology and Urology*
 November 2016 to present *Head and Neck Journal*

H. BIBLIOGRAPHY

Peer-reviewed Publications

1. Rusthoven **et al** (on behalf of FIRE-SCLC authors). First-Line Radiosurgery for Small-Cell Lung Cancer Brain Metastases: an International Multicenter Analysis. *JAMA Oncology*. 2020 Jun 4.
2. Vu CC, **Siddiqui ZA**, Zamdborg L, Thompson AB, Quinn TJ, Castillo E, Guerrero TM. Deep Convolutional Neural Networks for Automatic Segmentation of Thoracic Organs-at-Risk in Radiation Oncology – Use of Non-Domain Transfer Learning. *JACMP*. 2020 Jun;21(6):108-13.
3. Porter E, Fuentes P, **Siddiqui ZA**, Thompson AB, Solis D, Guerrero TM. Hippocampus Segmentation on Non-Contrast CT Using Deep Learning. *Med. Phys.* 2020 Feb 17.
4. Almahariq MF, Quinn TJ, **Siddiqui ZA**, Jawad MS, Chen PY, Gustafson GG, Dilworth JT. Post-Mastectomy Radiotherapy is Associated with Improved Overall Survival in T3N0 Patients Who Do Not Receive Chemotherapy. *Radiother. And Oncol.* 2020 Apr 1;145:229-37.
5. Chen CJ, Lee CC, Kano H, Kearns KN, Ding D, Tzeng SW, Atik A, Joshi K, Barnett GH, Huang PP, Kondziolka D. Stereotactic radiosurgery for pediatric brain arteriovenous malformations: long-term outcomes. *Journal of Neurosurgery: Pediatrics*. 2020 Feb 7;25(5):497-505
6. Chen CJ, Lee CC, Kano H, Kearns K, Ding D, Tzeng SW, Atik A, Joshi K, Huang P, Kondziolka D, Ironside N, Mathieu D, Iorio-Morin C, Grills IS, Quinn TJ, **Siddiqui ZA**, Marvin K, Feliciano C, Starke R, Faramand A, Barnett G, Lunsford LD, Sheehan JP. Radiosurgery for Unruptured Intervention-Naïve Pediatric Brain Arteriovenous Malformations. *Neurosurgery*. 2020 Jan 13.
7. Almahariq MF, Quinn TJ, **Siddiqui ZA**, Jawad MS, Chen PY, Gustafson GG, Dilworth JT. Breast-conserving Therapy is Associated with Improved Survival Compared to Mastectomy in Early-Stage, Lymph-Node Negative Breast Cancer with High Recurrence Score. *Radiother. And Oncol.* 2020 Jan 1;142:186-94.
8. **Siddiqui ZA**, Squires BS, Johnson MD, Baschnagel AM, Chen PY, Krauss DJ, Olson RE, Meyer K, Grills IS. Predictors of Radiation Necrosis in Long-term Survivors of Stereotactic Radiosurgery for Brain Metastases. *Neuro-Oncology Practice*. 2019 Dec 6.
9. Vargo, JV, Fang W, Liscak R, Guseynova K, Warnick RE, Lee CC, Yang HC, Borghei-Razavi H, Maiti T, **Siddiqui, ZA**, Yuan JC, Grills IS, Mathieu D, Touchette C, Cordeior D, Chiang V, Hess J, Tien C, Faramand A, Kano H, Barnett G, Sheehan JP, L Dade Lunsford, Cifarelli CP. Role of Gamma Knife Radiosurgery in Small Cell Lung Cancer: A Multi-Institutional Retrospective Study of the International Radiosurgery Research Foundation (IRRF) *Neurosurgery*. 2019 Oct 10.
10. Chen CJ, Lee CV, Ding D, Tzeng SW, Kearns K, Kano H, Atik A, Ironside N, Joshi K, Huang P, Kondziolka D, Mathieu D, Iorio-Morin C, Grills IS, Quinn TJ, **Siddiqui ZA**, Marvin K, Feliciano C, Faramand A, Starke R, Barnett G, Lunsford LD, Sheehan J. Stereotactic Radiosurgery for Unruptured versus Ruptured Pediatric Brain Arteriovenous Malformations. *Stroke*. 2019 Oct;50(10):2745-51.

11. Quinn TJ, Almahariq MF, **Siddiqui ZA**, Thompson AB, Hamstra DA, Kabolizadeh P, Gowans KL, Chen PY. Trimodality Therapy for Atypical Teratoid/Rhabdoid Tumor (AT/RT) is Associated with Improved Overall Survival: A Surveillance, Epidemiology, and End Results Analysis. *Pediat. Blood & Cancer*. 2019 Aug 28; 2019;66(12):e27969.
12. **Siddiqui ZA**, Gustafson GG, Ye H, Martinez AA, Mitchell B, Sebastian E, Limbacher A, Krauss DJ. 5-year Outcomes of a Single Institution Prospective Trial of 19 Gy Single-Fraction HDR Brachytherapy for Low- and Intermediate-Risk Prostate Cancer. *Int J Radiat Oncol Biol Phys*. 2019 Aug 1;104(5):1038-44.
13. **Siddiqui ZA**, Krauss DJ. Adjuvant androgen deprivation therapy for prostate cancer treated with radiation therapy. *Transl Androl Urol*. 2018 Jun;7(3):378-389.
14. Pomeranec IJ, Kano H, Xu Z, Nguyen B, **Siddiqui ZA**, Silva D, Sharma M, Radwan H, Cohen JA, Dallapiazza RF, Iorio-Morin C. Early versus late Gamma Knife radiosurgery following transsphenoidal surgery for nonfunctioning pituitary macroadenomas: a multicenter matched-cohort study. *Journal of neurosurgery*. 2018 Sep;129(3):648-57.
15. Cohen-Inbar O, Xu Z, Lee CC, Wu CC, Chytka T, Silva D, Sharma M, Radwan H, Grills IS, Nguyen B, **Siddiqui Z**, Mathieu D, Iorio-Morin C, Wolf A, Cifarelli CP. Prognostic significance of corticotroph staining in radiosurgery for non-functioning pituitary adenomas: a multicenter study. *Journal of neuro-oncology*. 2017 Oct;135(1):67-74.
16. **Siddiqui ZA**, Melian E, Sethi A, Prabhu VC, Rusu I, Emami B, Leonetti JP, Anderson DE. Stereotactic Radiation for Palliation of Skull Base Recurrences of Salivary Gland Carcinomas: Implications for Tumor Targeting. *Journal of neurological surgery. Part B, Skull base*. 2017 Feb;78(1):82.
17. Harkenrider MM, Block AM, **Siddiqui ZA**, Small Jr W. The role of vaginal cuff brachytherapy in endometrial cancer. *Gynecologic oncology*. 2015 Feb;136(2):365-72.

Research Presentations

1. **Siddiqui ZA**, Quinn TJ, Almahariq ML, Chen PY, Gustafson GG, Dilworth JT. Association of Postmastectomy Radiation Therapy with Overall Survival for Women with pT3N0 Breast Cancer: An NCDB Analysis ASTRO 2019. **Digital Poster Presentation.**
2. Thompson AB, **Siddiqui ZA**, Porter E, Guerrero TM. A Novel Deep Learning Architecture for Deformable Imaging Registration applied to Image-Guided Radiotherapy. ASTRO 2019. **Oral Presentation.**
3. Almahariq ML, Quinn TJ, **Siddiqui ZA**, Chen PY, Gustafson GG, Jawad MS, Dilworth JT. Breast Conserving Therapy Including Whole Breast Irradiation is Associated With Better Overall Survival Compared to Mastectomy Alone in Patients With Early Stage, Lymph Node Negative Breast Cancer With High OncotypeDX Recurrence Score: an NCDB Analysis. ASTRO 2019. **Digital Poster Presentation.**
4. Parzen JS, **Siddiqui ZA**, Jawad MS, Dilworth JT, Chen PY. Reirradiation with Concurrent Hyperthermia for Recurrent Breast Cancer Is Safe and Effective. ASTRO 2019. **Digital Poster Presentation.**
5. Porter E, Fuentes P, Siddiqui Z, Thompson A, Guerrero T. Hippocampal Segmentation from CT scans with a Convolutional Neural Network. *Medical Physics* 46 (6), e431-431. **Poster Presentation.**
6. **Siddiqui ZA**, Vu CC, Thompson A, Dilworth JT, Chen PY. Historical Trends of Implantable Accelerated Partial Breast Irradiation Usage after Breast Conserving Surgery for Stage I Breast Cancer: A SEER Analysis. *International Journal of Radiation Oncology• Biology• Physics* 102 (3), e593-e594. ASTRO 2018. **Digital Poster Presentation.**
7. Yuan JC, **Siddiqui ZA**, Krauss DJ, Seymour ZA, Grills IS. Stereotactic Radiosurgery as a Component of Treatment for Brain Metastases in Small Cell Lung Cancer Patients. *International Journal of Radiation Oncology• Biology• Physics* 102 (3), e379. ASTRO 2018. **Digital Poster Presentation.**
8. Vu CC, Zamdborg L, **Siddiqui ZA**, Gustafson GS, Krauss DJ, Guerrero TM. Automatic Segmentation Using Convolutional Neural Networks in Prostate Cancer. *International Journal of Radiation Oncology• Biology• Physics* 102 (3), S61. ASTRO 2018. **Oral Presentation.**
9. **Siddiqui ZA**, Thibodeau BJ, Ahmed S, Dekhne NS, Benitez PR, Amin MB, Grills IS, Wobb JL, Wilson GD. Mutational Landscape of Radiation-Induced Angiosarcoma in Breast Cancer Patients. *International Journal of Radiation Oncology• Biology• Physics* 99 (2), S55. ASTRO 2017. **Oral Presentation.**
10. **Siddiqui ZA**, Johnson MD, Baschnagel AM, Chen PY, Krauss DJ, Olson RE, Meyer K, Grills IS. Predictors of radiation necrosis in long-term survivors of stereotactic radiosurgery for brain metastases. *International Journal of Radiation Oncology• Biology• Physics* 96 (2), E104. ASTRO 2016. **Poster Presentation.**
11. **Siddiqui ZA**, Melian E, Sethi A, Prabhu VC, Emami B, Rusu IA, Leonetti JP, Anderson DE. Stereotactic Radiation for Skull Base Recurrences of Salivary Carcinomas: Implications for Tumor Targeting. *Journal of Neurological Surgery Part B: Skull Base* 76 (S 01), A135. North American Skull Base Society 2015. **Oral Presentation.**

12. Stang K, Guenther E, Kozel Z, Rusu IA, **Siddiqui Z**, Melian E, Sethi A. A Novel Tool to Assess Contouring Accuracy of Organs-at-Risk in Stereotactic Radiosurgery. *International Journal of Radiation Oncology• Biology• Physics* 93 (3), S158-S159. ASTRO 2015. **Oral Presentation.**
13. Chaudhry A, **Siddiqui ZA**, Wasson K, Parsi K. Rethinking Futile Care: The Jahi McMath Saga. Neiswanger Institute for Bioethics Presentation. 2014 Jun. **Poster Presentation.**
14. Berger E, Weber C, **Siddiqui Z**, Pappas SG, Abood GJ, Aranha GV. Pancreoduodenectomy: Can it be performed in octagenarians?. ACS Annual Meeting, Washington DC. 2013 Oct. **Poster Presentation.**
15. Weber C, **Siddiqui Z**, Berger E, Bock E, Hurtuk M, Pappas SG, Abood GJ, Aranha GV. Validation of a Risk Prediction Model for Major Complications following Pancreaticoduodenectomy with Pancreogastrostomy Reconstruction. MSA Meeting, Acme, MI. 2013 Jul. **Poster Presentation.**
16. **Siddiqui Z**, Li X, Choudhry MA. Comparison of Methods to Isolate Lamina Propria T-Cells. Stritch School of Medicine Research Day. 2012 Oct. **Oral Presentation.**
17. **Siddiqui Z**, Semlow D, Staley J. Splicing in a Bind: Examining Conformational Changes in the Rejection of Double Mutant 3' Splice Sites. University of Chicago Biological Science Division Fellowship Presentation. 2009. **Oral Presentation.**

Invited Presentations

18. **Siddiqui ZA**, Guerrero TM. A Deep Learning Framework for Radiotherapy Delivery in Thoracic Oncology. Invited Poster. RSNA Annual Meeting 2018.