

## Curriculum Vitae

**Date Prepared:** October 2018  
**Name:** Anshu Kumar Jain  
**Position:** Attending Physician and Medical Director – Bellefonte Cancer Center  
Assistant Clinical Professor of Therapeutic Radiology, Yale School of Medicine  
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**Place of Birth:** New York, NY

### Education

2009	Doctor of Medicine <i>with Highest Distinction</i>	University of Kentucky College of Medicine Lexington, KY
2008	Certificate in Clinical Science	University of Texas Southwestern Medical Center Dallas, TX
2003	Bachelor of Arts, Economics	Duke University Durham, NC

### Postdoctoral Training

2013-2014	Chief Resident	Department of Radiation Oncology	Columbia University Medical Center / NY Presbyterian New York, NY
2014	Resident	Department of Radiation Oncology	Memorial Sloan Kettering Cancer Center New York, NY
2010-2014	Resident	Department of Radiation Oncology	Columbia University Medical Center / NY Presbyterian New York, NY
2009-2010	Resident	Department of Internal Medicine	Massachusetts General Hospital Boston, MA

**Current Licensure and Certifications**

05/2015	Radiation Oncology	American Board of Radiology
09/2013	Medical License	West Virginia Board of Medicine
06/2012	Medical License	Kentucky Board of Medicine

**Academic and Research Appointments**

01/2018 – present	Senior Fellow (in Oncology Innovation)	National Cancer Institute – Radiation Oncology Branch	National Institutes of Health Bethesda, Maryland
02/2018 – present	Senior Fellow and Intrapreneur-in-Residence	Food and Drug Administration Oncology Center of Excellence / INFORMED	FDA White Oak, Maryland
10/2016 – present	Assistant Clinical Professor	Department of Therapeutic Radiology	Yale School of Medicine, New Haven, CT
08/2014 – 10/2016	Clinical Instructor	Department of Therapeutic Radiology	Yale School of Medicine New Haven, CT
2010-14	Postdoctoral Residency Fellow	Department of Radiation Oncology	Columbia University College of Physicians and Surgeons New York, NY
2009-10	Clinical Fellow	Department of Internal Medicine	Harvard Medical School Boston, MA

**Appointments at Hospitals/Affiliated Institutions**

08/2014 - present	Attending Physician	Radiation Oncology	Our Lady of Bellefonte Hospital Ashland, KY
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**Other Professional Positions**

2009	Medical Journalism Internship	ABC Healthcare Boston, MA
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**Leadership / Committee Work / Service**

04/2018	Member, Quality of Care Council	American Society of Clinical Oncology Alexandria, VA
01/2018 – present	Board of Directors	Community Oncology Alliance, Washington DC
11/2016 – present	Board of Directors and Treasurer	West Virginia Oncology Society (ASCO State Affiliate)
11/2016 – present	Quality and Clinical Integration Network Committee Member	Bon Secours Kentucky Clinical Integration Network
06/2016 – present	Practice Leader for Oncology Care Model (CMS Alternative Payment Demo)	Bellefonte Cancer Center and Highlands Cancer Center
2015 – 2016	Teams in Cancer Care Delivery <i>Lead Clinician – Breast Cancer</i>	National Cancer Institute American Society of Clinical Oncology
2011-2013	Housestaff Quality and Safety Council	New York Presbyterian Hospital Columbia University Medical Center
2008-2009	UK Graduate Medical Education Committee – Teamwork Development	University of Kentucky
2007-2009	Interprofessional Health Education Committee (IHEC)	University of Kentucky
2007-2009	IHEC Teamwork Subcommittee Chair	University of Kentucky

**Professional Society Membership**

2013- present	American Society of Clinical Oncology	Member
2010- present	American Society for Radiation Oncology	Member

**Honors and Awards**

2014	Roentgen Resident Research Award	Radiological Society of North America
2014	QUEST Leadership Award	Columbia University Medical Center
2009	Mentored Clinical Research Award	University of Kentucky College of Medicine

2008	Winner – Student Research Forum	University of Texas Southwestern Medical Center
2007	Doris Duke Clinical Research Fellowship Award	Doris Duke Charitable Foundation
2006	Community Service Award	University of Kentucky College of Medicine
2003	Undergraduate Research Award	Duke University
1999	Robert C. Byrd Scholarship	United States Dept. of Education

### **Teaching and Mentorship**

2014- present	Monthly teaching sessions and lectures on the principles and practice of clinical Radiation Oncology to fellows, residents, and medical students	Dept. of Therapeutic Radiology Yale School of Medicine New Haven, CT
2017	Thesis Faculty Advisor to Kimberly Bundick, MPH Candidate (Received with honors)	Yale School of Public Health New Haven, CT

### **Formal Teaching of Peers (e.g., CME and other continuing education courses)**

2016	Faculty Examiner – 3 <sup>rd</sup> Annual UCLA Radiation Oncology Education Symposium	UCLA Los Angeles, CA
2014	“The Role of Stereotactic Body Radiation Therapy in the Re-irradiation of Metastatic Spinal Tumors”	Grand Rounds Dept. of Radiation Oncology Columbia Univ Medical Center
2013	“The Radiotherapeutic Management of Thymoma”	Grand Rounds Dept. of Radiation Oncology Columbia Univ Medical Center
2012	“EGFR and Radiotherapy in NSCLC: Translational Investigations”	Grand Rounds Dept. of Radiation Oncology Columbia Univ Medical Center

### **Local, Regional, and National Invited Presentations**

05/2018	“Stereotactic Radiotherapy and Immunotherapy: Advances in Combined Therapy” Nevada Oncology Society Spring Meeting, Las Vegas, NV
05/2018	“The Oncology Care Model: Conundrums For Oncology Value Based Care” West Virginia Oncology Society Spring Conference

- 11/2017 “Stereotactic Radiotherapy and Immunotherapy: Advances in Combined Therapy and Future Directions”  
Nevada Oncology Society Fall Meeting, Reno, NV
- 05/2017 “Radiation Oncology Landscape: Immunotherapy and Beyond”  
West Virginia Oncology Society Spring Conference
- 04/2017 “Oncology Imaging Advances and Applications”  
Kentucky Society of Radiologic Technologists Spring Meeting
- 2014 “Advances in Early Stage Lung Radiotherapy”  
Annual Nursing Oncology Update – Our Lady of Bellefonte Hospital
- 2007 “Rediscovering Teamwork: High Performance Teams and UK Healthcare”  
University of Kentucky Interprofessional Education Conference

### **Community Activities and Education**

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|------|---|--------------------------------------|
| 2017 | Newspaper Health and Wellness Column                    | The Daily Independent<br>Ashland, KY |
| 2015 | “Clinical Trials for Patients and Community Caregivers” | Leukemia and Lymphoma<br>Society     |

### **Clinical Trials**

1. DOM-INNATE (Soligenix): A Pivotal, Double-Blind, Randomized, Placebo-Controlled, Multinational Study of SGX942 (Dusquetide) for the Treatment of Oral Mucositis in Patients Being Treated With Concomitant Chemoradiation for the Treatment of Squamous Cell Carcinoma of the Head and Neck. **Role: Site Principal Investigator**
2. BAY 88-8223 / 16298 (BAYER): A phase II randomized, double-blind, placebo-controlled trial of radium-223 dichloride versus placebo when administered to metastatic HER2 negative hormone receptor positive breast cancer subjects with bone metastases treated with hormonal treatment background therapy. **Role: Site Principal Investigator**
3. GT-201 (Galera): A phase 2, randomized, double-blind, placebo-controlled, multi-center, trial of the effects of intravenous gc4419 on the incidence and duration of severe oral mucositis (om) in patients receiving post-operative or definitive therapy with single-agent cisplatin plus imrt for locally advanced, non-metastatic squamous cell carcinoma of the oral cavity or oropharynx. **Role: Site Principal Investigator**
4. JAVELIN Head and Neck 100 (Pfizer B9991016): A randomized double-blind phase 3 study of avelumab in combination with standard of care chemoradiotherapy (cisplatin plus definitive radiation therapy) versus standard of care chemoradiotherapy in the front-line treatment of patients with locally advanced squamous cell carcinoma of the head and neck. **Role: Site Co-investigator**

5. ATLAS (Janssen): A Randomized, Double-blind, Placebo-controlled Phase 3 Study of JNJ-56021927 in Subjects with High-risk, Localized or Locally Advanced Prostate Cancer Receiving Treatment with Primary Radiation Therapy. **Role: Site Principal Investigator**

### **Peer Reviewed Publications**

1. **Jain AK**, Fennell ML, Chagpar AB, Connolly HK, Nembhard IM. Moving Toward Improved Teamwork in Cancer Care: The Role of Psychological Safety in Team Communication. *Journal of Oncology Practice*. 2016 Nov;12(11):1000-1011. PMID: 27756800
2. Zhang W, Mao J, Zhu W, **Jain AK**, Liu K, Brown JB, Karpen GH. Centromere and kinetochore gene misexpression predicts cancer patient survival and response to radiotherapy and chemotherapy. Accepted. *Nature Communications*. 2016 Aug 31;7:12619. doi: 10.1038/ncomms12619. PMID: 27577169
3. **Jain AK** and Yamada YJ. The Role of SBRT and SRS in the Re-irradiation of Metastatic Spinal Tumors. *Expert Review of Anticancer Therapy*. 2014 Oct; 14(10):1141-52. PMID: 25066490
4. Russo S. **Jain AK**, Saif MW. Adjuvant strategies for resectable pancreatic cancer: have we made progress? *Journal of the Pancreas*. 2012 Mar 10; 13(12):139-142. PMID: 22406585
5. Daly ME, Le QT, **Jain AK**, Maxim PG, Hsu A, Loo BW, Kaplan MJ, Fischbein NJ, Colevas AD, Pinto H, Daniel T. Chang DT. Intensity-Modulated Radiotherapy for Locally Advanced Cancers of the Larynx and Hypopharynx. *Head and Neck*. 2011 Jan;33(1):103-11. PMID: 20848427
6. Majmudar A, **Jain AK**, Chaudry J, Schwartz RW. High-performance teams and the physician leader: an overview. *Journal of Surgical Education*. 2010 Jul-Aug; 67(4):205-9. PMID: 20816354
7. **Jain AK**, Hughes RS, Sandler AB, Dowlati A, Schwartzberg LS, Dobbs T, Schlabach L, Wu J, Muldowney NJ, Choy H. A Phase II Study of Concurrent Chemoradiotherapy with Weekly Docetaxel, Carboplatin, and Radiation Therapy Followed by Consolidation Chemotherapy with Docetaxel and Carboplatin for Locally Advanced Inoperable Non-small Cell Lung Cancer (NSCLC). *Journal of Thoracic Oncology*. 2009 Jun; 4(6): 722-7. PMID: 19404213
8. Choy H, **Jain AK**, Moughan J, Curran W, Whipple G, Demas WF, Ettinger DS. A Phase I Trial of Concurrent Gemcitabine/Carboplatin or Gemcitabine/Paclitaxel and Radiation Therapy ("Ping-Pong Trial") Followed By Adjuvant Chemotherapy for Patients with Favorable Prognosis Inoperable Stage IIIA/B Non-Small Cell Lung Cancer. *Journal of Thoracic Oncology*. 2009 Jan; 4(1): 80-6. PMID: 19096311
9. Chaudry J, **Jain A**, McKenzie S, Schwartz RW. Physician Leadership: The Competencies of Change. *Journal of Surgical Education*. 2008. May-Jun; 65(3): 213-220, PMID: 18571135

10. **Jain AK**, Thompson JM, Chaudry J, McKenzie S, Schwartz RW. High Performance Teams for Current and Future Physician Leaders: An Introduction. *Journal of Surgical Education* 2008. Mar-Apr; 65(2): 145-50, PMID: 18439540
11. **Jain AK**, Thompson JM, Kelley SM, Schwartz RW. Fundamentals of Service Lines and the Necessity of Physician-Leaders. *Surgical Innovation*. 2006, 13(2): 136-144, PMID: 17012155
12. **Jain AK\***, Moore SM\*, Yamaguchi K, Eling TE, Baek SJ. Selective Nonsteroidal Anti-Inflammatory Drugs Induce Thymosin Beta-4 and Alter Actin Cytoskeletal Organization in Human Colorectal Cancer Cells. *The Journal of Pharmacology and Experimental Therapeutics*. 2004, 311(3) 885-891, PMID: 15292456 (\*contributed equally)

### **Book Chapters and Other Medical Publications**

1. Jacqueline Kelly and **Anshu K. Jain**. Chapter 15: Oropharynx and Hypopharynx in *Radiation Oncology: Management Decisions 4<sup>th</sup> ed.* Wolters Kluwer Health, 2018.
2. Benjamin Kann and **Anshu K. Jain**. Chapter 16: Larynx in *Radiation Oncology: Management Decisions 4<sup>th</sup> ed.* Wolters Kluwer Health, 2018.
3. Joseph Miccio, John Stahl, and **Anshu K. Jain**. Chapter 17: Rare Tumors of the Head and Neck in *Radiation Oncology: Management Decisions 4<sup>th</sup> ed.* Wolters Kluwer Health, 2018.
4. **Anshu K. Jain**, Nicole M. Hsu, Tony J. Wang, K.S. Clifford Chao. Paranasal Sinuses and Nasal Cavity in *Practical Essentials of Intensity Modulated Radiation Therapy, 3<sup>rd</sup> Edition*. Lippincott Williams and Wilkins, 2013.
5. **Anshu K. Jain**, Nicole M. Hsu, K.S. Clifford Chao. Oral Cavity in *Practical Essentials of Intensity Modulated Radiation Therapy, 3<sup>rd</sup> Edition*. Lippincott Williams and Wilkins, 2013.
6. **Contributor** for “Clinician’s Pocket Drug Reference 2008” by Leonard G. Gomella, Steven A. Haist, Aimee Gelhot Adams, Kelly M. Smith. McGraw Hill Medical Publishing, 2008.

### **Abstracts, Oral Presentations, and Poster Presentations Presented at Professional Meetings**

1. **\*\*Jain AK**, Fennell M, Chagpar AB, Connolly HK, Nembhard I. Managing Communication in Multidisciplinary Treatment Planning. 2016 Feb 25. NCI-ASCO Teams in Cancer Care Workshop / ASCO Quality Symposium.  
\*\*oral presentation
2. **Jain AK**, Lameka KA, Yan SX, Zhao B, Divgi C, Leung DK, Cheng SK, Chao K. A Pilot Study of FLT-PET as an Early Imaging Biomarker in the Trimodality Treatment of Patients with Thoracic Malignancies. *International Journal of Radiation Oncology, Biology, and Physics*. 2014 Sept. 90(1): S669

3. Cheng SK, Stephenson K, **Jain A**, Horowitz DP, Yan SX, Wang T, Chao K, Hei TK. The Effects of B-Adrenergic Antagonists on Radiation Therapy for Locally Advanced Lung Cancers. *International Journal of Radiation Oncology, Biology, and Physics*. 2014 Sept. 90(1): S214-215.
4. Shah A, **Jain AK**, Xanthopoulos EP, Carrier D, Cheng SK, Deutsch I, Chao C. Cost-Effectiveness Analysis of Stereotactic Body Radiation Therapy, Conventional Single-Fraction Radiation Therapy, and Medical Management Alone for a Painful Localized Spine Metastasis. *International Journal of Radiation Oncology, Biology, and Physics*. 2014 Sept. 90(1): S588-589.
5. **Jain AK** and Wang TJ. Malignant Tumors of the Lacrimal Gland: A SEER Analysis. *International Journal of Radiation Oncology, Biology, and Physics*. 2013 Oct. 87(2): S269-270.
6. Ping Y, **Jain A**, Cheng S, Chao C. Clinical Confirmation of Direct Noninvasive Ultrasonography Respiration Monitoring System in Improving Organ Motion Artifact of 4DCT. *International Journal of Radiation Oncology, Biology, and Physics*. 2013 Oct. 87(2): S706-707.
7. **Jain AK**, Shuryak I, Ng J, Chao KS, Brenner DJ, Deutsch I. Predicting the Risk of Secondary Malignancies Associated With Pelvic Nodal Irradiation in the Treatment of Prostate Cancer. *International Journal of Radiation Oncology, Biology, and Physics*. 2012 Nov. 84(3): S372.
8. **\*\*Jain AK**, Horowitz DP, Chao KSC, Burri RJ. Factors Affecting the Impact of Neoadjuvant Radiation on Survival in Locally Advanced NSCLC: A SEER Database Analysis. *International Journal of Radiation Oncology, Biology, and Physics*. 2011 Oct. 81(2): S163-64.  
**\*\*Poster Discussion Recognition**
9. Burri RJ, **Jain AK**, Horowitz DP, Deutsch I, Chao KSC. Adjuvant Radiation Therapy in Older Patients with T2N0 Bladder Cancer Undergoing Limited Surgical Resection: A SEER Database Analysis. *International Journal of Radiation Oncology, Biology, and Physics*. 2011 Oct. 81(2): S448.
10. **Jain AK**, Salama JK, Stenson KM, Blair E, Cohen EE, Witt M, Haraf DJ, Vokes EE. Correlation of body mass index with toxicity and survival in locoregionally advanced head and neck cancer patients treated with induction chemotherapy and concurrent chemoradiotherapy. *Journal of Clinical Oncology* 27:15s, 2009 (suppl; abstr 6074)
11. **\*\*Jain AK**, Das AK, Cho J, Sato M, Minna JD, Nirodi CS. The Effects of Radiation and Anti-EGFR Therapy in an Isogenic Human Bronchial Epithelial Cell Line Model. *International Journal of Radiation Oncology, Biology, Physics*. 2008 Sept; 75(1): S2 (Abstract # 4)  
**\*\*Oral Presentation**
12. Hughes RS, Sandler A, **Jain AK**, Dowlati A, Schwartzberg L, Dobbs T, Schlabach L, Wu J, Muldowney N, Choy H. A phase II study of concurrent chemoradiotherapy with weekly docetaxel, carboplatin, and radiation therapy followed by consolidation chemotherapy with docetaxel and carboplatin for locally advanced inoperable non-small cell lung cancer. *Journal of Clinical Oncology*. 2008:26 (May 20 suppl; abstr 7565)



13. **\*\*Jain AK**, Das AK, Cho J, Sato M, Minna JD, Nirodi CS. Determining the Necessary Domains for Mutant EGFR-mediated Radiosensitization in an Isogenic Human Bronchial Epithelial Cell Line Model. *Radiation Research* (Abstr MS 308)

**\*\*Oral Presentation**

### **Radiation Oncology Specific Skills**

Proficiency in intensity modulated radiation therapy (IMRT), image-guided radiation therapy (IGRT), intracranial stereotactic radiosurgery (SRS), extracranial stereotactic body radiation therapy (SBRT) (*summary case experience available on request*)

Proficiency with Eclipse and Pinnacle Treatment Planning Systems, Gamma Knife Treatment Planning; Aria, Mosaiq, and Oncochart Electronic Medical Record Systems