

# SUN K. YI, M.D.

**Work Address:**

University of Arizona  
Department of Radiation Oncology  
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Tucson, AZ 85724

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**FACULTY APPOINTMENTS:**

**University of Arizona, College of Medicine**  
**Department of Radiation Oncology**  
Tucson, AZ

- Assistant Professor

**10/01/2012 – Present**

**CLINICAL TRAINING:**

**University of California, Davis, School of Medicine**  
**Department of Radiation Oncology**  
Sacramento, CA

- Chief Resident

**07/01/2010 – 06/30/2012**

**University of California, Davis, School of Medicine**  
**Department of Radiation Oncology**  
Sacramento, CA

- Resident

**07/01/2008 – 06/30/2010**

**Signature Healthcare Brockton Hospital**  
**Tufts University School of Medicine**  
Brockton, MA

- Transitional Year Internship

**06/16/2007 – 06/23/2008**

**EDUCATION:**

**Boston University School of Medicine**  
Boston, MA

- M.D. awarded, May 2007

**09/01/2003 – 05/20/2007**

**University of California, Los Angeles**  
Los Angeles, CA

- B.S. awarded, June 2001

**09/01/1997 – 06/01/2001**

## **BOARD CERTIFICATIONS AND LICENSURE**

- DEA (exp 05/31/2017)
- California Medical Board (exp 09/24/2016)
- Arizona Medical Board (exp 01/26/2016)
- Board Certified in Radiation Oncology (06/11/2013)

## **PROFESSIONAL MEMBERSHIPS:**

- American Society of Therapeutic Radiation Oncology (ASTRO), 2008 – present
- American Brachytherapy Society (ABS), 2008 – present
- American College of Radiology (ACR), 2008 – present
- Korean American Society of Therapeutic Radiation Oncology (KASTRO), 2008 – present

## **HONORS AND AWARDS:**

- Association of Residents in Radiation Oncology (ARRO) Educator of the Year, 2015
- University of Arizona Radiation Oncology Faculty Teaching Award, 2015
- International Association of Radiologists Top Doctor, 2014
- UAHN Very Important Physician, 2014
- Elected as member of AOA, 2007
- Association of Pathology Chairs Honor Society, 2004
- Graduated undergraduate Cum Laude, UCLA 2001
- UCLA Dean's List, 1999 – 2001

## **WORK EXPERIENCE AND SKILLS:**

**University of Arizona**

**2012 – Present**

**Department of Radiation Oncology**

Tucson, AZ

- Primary Head & Neck and Lung Cancer Specialist
- Generated over 14,000 work RVUs in fiscal year 2013-14 (nearly 12K thru 4/2015)
- Experience with following delivery systems
  - TomoTherapy HiArt
  - Varian Trilogy
  - Varian Clinac 6EX
  - Varian 600N
  - Elekta SLI
  - Varian VariSource iX
  - iCad Xoift
- Experience with following planning systems
  - Phillips Pinnacle

- Varian Eclipse
- Brainlab Brainscan/iPlan
- Experience in following techniques
  - SBRT with 4D CT and RPM gating
  - CNS SRS with frameless pencil beam/arc therapy
  - VMAT/RapidArc
  - IMRT

**University of California, Davis, School of Medicine**  
**Department of Radiation Oncology**  
 Sacramento, CA

**2008 – 2012**

- Clinical Training
  - External Beam Radiation Therapy:
    - SBRT with 4DCT and body frame with abdominal compression system
    - Leksell Gamma Knife radiosurgery for CNS diseases
    - VMAT on Elekta linear accelerators with SmartArc planning software
    - IGRT with TomoTherapy MVCT and Elekta Synergy CBCT
    - Inter- and intra-fractional localization and monitoring with Calypso Beacon system for prostate cancer treatment
  - Procedural/Brachytherapy:
    - Interstitial Low Dose Rate (LDR) permanent prostate brachytherapy with <sup>125</sup>I seeds and intra-operative planning with Nucletron SPOT PRO
    - Tandem and Ring (T&R) High Dose Rate (HDR) brachytherapy for gynecological malignancies with 3D planning on Eclipse
    - Interstitial High Dose Rate (HDR) brachytherapy for gynecological malignancies with 3D planning on Eclipse
    - Accelerated Partial Breast Irradiation (APBI) with multi-catheter Strut-Adjusted Volume Implant (SAVI)

## **PUBLICATIONS:**

### **Peer-Reviewed Journal Articles:**

1. Rash D, Durbin-Johnson B, Lim J, Dieterich S, Huddleston A, **Yi SK**, Mayadev J: Dose Delivered to the Lumbosacral Plexus from High-Dose-Rate Brachytherapy for Cervical Cancer. *International Journal of Gynecological Cancer*; 2015 (epub ahead of print)
2. **Yi SK**, Kratz S, Gernon TJ, Erman A, Khan R, Avery R, Aly FZ, Kuo P, Cheung M, Georgiev G: Morbidity Associated with False-Positive Findings in Post-Treatment Positron Emission Tomography/Computed Tomography in Chemoradiation Treated Head and Neck Cancer Patients. *J J Rad Oncol*; 2014; 1(2); 012
3. Mendel T and **Yi SK**: Pseudo-Abscess Formation in a 55 Year Old Female with HPV Positive Tonsillar Squamous Cell Carcinoma: A Case Report. *J J Rad Oncol*; 2014; 1(2); 011
4. He W, Luo J, Bourguet F, Xing L, **Yi SK**, Gao T, Blanchette C, Henderson PT, Kuhn E, Malfattie M, Murphy WJ, Cheng RH, Lam KS, Coleman MA. Controlling the Diameter,

Monodispersity, and Solubility of ApoA1 Nanolipoprotein Particles Using Telodendrimer Chemistry. *Protein Science*; 2013; 22(8); 1078-1086

5. **Yi SK**, Mak W, Yang C, Liu T, Cui J, Chen AM, Purdy JA, Do L. Development of a Standardized Method for Contouring the Lumbosacral Plexus: A Preliminary Dosimetric Analysis Among 15 Patients Treated with IMRT for Lower Gastrointestinal Cancers; *International Journal of Radiation Oncology, Biology, Physics*; 2012; 84(2); 376-382
6. **Yi SK**, Hall W, Gupta V, Mathai M, Purdy JA, Chen AM; Validating the RTOG-endorsed Brachial Plexus Contouring Atlas: An Evaluation of Reproducibility among Patients Treated by IMRT for Head and Neck Cancer; *International Journal of Radiation Oncology, Biology, Physics*; 2012; 82(3); 1060-1064
7. **Yi SK**, Perks JR, Houston R, Stern R, Purdy JA, Chen AM. Changes in Position and Volume of Lung Cancer Target Volumes during Stereotactic Body Radiotherapy (SBRT): Is Image Guidance Necessary?; *Technology in Cancer Research and Treatment*; 2011; 10(5); 475-485
8. **Yi SK**, Yoder M, Zaner K, Hirsch AE; Palliative Radiation Therapy of Symptomatic Recurrent Bladder Cancer; *Pain Physician*; 2007;10;285-290

#### **Book Chapters:**

1. Morgan SS, Jeter JM, Hersh EM, **Yi SK**, Cranmer LD. Management of Brain Metastasis in: *Melanoma: From Early Detection to Treatment*: edited by Guy Huynh Thien Duc, ISBN 978-953-51-0961-7, InTech, January 1, 2013

#### **Meeting Abstracts:**

1. Davaluri R, **Yi SK**: Weekly IGRT Volumetric Response Analysis as a Predictive Tool for Locoregional Control in Head and Neck Cancer Radiotherapy; Oral Presentation at ARS May 3, 2015, Kauai, HI
2. Cheung MK, Ng S, Goyal U, Kratz S, Gernon TJ, Avery R, Aly F, Kuo P, Erman A, Khan R, **Yi SK**. Optimal Timing of Initial PET/CT Surveillance Scan after Radiotherapy for Head and Neck Cancers; Accepted for poster presentation at ASTRO 2014
3. Rash D, Durbin-Johnson B, Dieterich S, Huddleston A, **Yi SK**, Mayadev J. Lumbosacral Plexus Dose with High-Dose-Rate (HDR) Brachytherapy for Locally-Advanced Cervical Cancer; *International Journal of Radiation Oncology, Biology, Physics*; 2013; 87:2(Suppl 1): S408-409
4. He W, Luo J, Gao T, **Yi SK**, Huser T, Cheng H, Lam K, Coleman MA; Cell-free Production of Multifunctional Nanolipoprotein Particles Using Telodendrimer Chemistry; *Protein Science*; 2012; 20:S1.
5. Lee YC, Perks JR, **Yi SK**, Stern RL, Valicenti RK; Comparison of daily localization by kilovoltage cone-beam computed tomography and electromagnetic tracking system (Calypso) for prostate patients receiving intensity-modulated radiation therapy; Young Investigator Symposium, AAPM; March 17, 2012; Dallas, TX

6. **Yi SK**, Bommer WJ, Beckett LA, Daly ME, Chen AM. Prospective Evaluation of Cardiac Toxicity After Stereotactic Body Radiotherapy for Thoracic Tumors Using Echocardiographic Findings; *International Journal of Radiation Oncology, Biology, Physics*; 2012; 84:3: S596-597
7. **Yi SK**, Mak W, Yang C, Liu T, Cui J, Chen AM, Purdy JA, Do L. Development of a Standardized Method for Contouring the Lumbosacral Plexus: A Preliminary Dosimetric Analysis Among of this Organ at Risk among 15 Patients Treated with IMRT for Lower Gastrointestinal Cancers and the Incidence of Radiation Induced Lumbosacral Plexopathy; *International Journal of Radiation Oncology, Biology, Physics*; 2011; 81:2(Suppl 1): S172-173
8. **Yi SK**, Perks JR, Houston R, Stern R, Purdy JA, Chen AM. Changes in Position and Volume of Lung Cancer Target Volumes during Stereotactic Body Radiotherapy (SBRT): Is Image Guidance Necessary?; *International Journal of Radiation Oncology, Biology, Physics*; 2010; 78:3(Suppl 1): S784-785
9. **Yi SK**, Hall W, Gupta V, Mathai M, Purdy JA, Chen AM. Validating the RTOG-endorsed Brachial Plexus Contouring Atlas: An Evaluation of Reproducibility; *International Journal of Radiation Oncology, Biology, Physics*; 2009; 75:3(Suppl 1): S413

#### **Works in Progress:**

1. Davaluri R, Krase J, Cui H, Goyal U, Cheung M, Hsu C, **Yi SK**: Weekly IGRT Volumetric Response Analysis as a Predictive Tool for Locoregional Control in Head and Neck Cancer Radiotherapy (submitted to Red Journal 8/2015)
2. Cheung MK, Ng S, Goyal U, Kratz S, Gernon TJ, Avery R, Aly F, Kuo P, Erman A, Khan R, **Yi SK**: Optimal Timing of Initial PET/CT Surveillance Scan after Radiotherapy for Head and Neck Cancers (Edit for re-submission in near future)
3. Goyal U, **Yi SK**: The Role of Systemic Therapy with Post-operative Radiation for Locally Advanced Cutaneous Squamous Cell Carcinoma (Data mining phase)
4. Szeja S, Desai A, **Yi SK**, Stea B: Frameless Hypofractionated Stereotactic Radiation Therapy for Brain Metastases

#### **ACADEMIC SERVICES:**

##### **Invited Lectureships:**

1. ENT in the Desert Conference Panel Discussant, “HPV Related Oropharyngeal Cases,” February 19, 2015; Tucson, AZ
2. University of Arizona Neuro-Oncology Tumor Board – “Review of N107 Clinical Trial,” May 8, 2014; Tucson, AZ

3. ENT in the Desert Conference Presenter and Panel Discussant, “Laryngeal Cancer – A Radiation Oncologist’s Perspective,” February 27, 2014; Tucson, AZ
4. AAPC Tucson Cactus Coders – “Advances in Head and Neck Radiotherapy,” November 13, 2013; Tucson, AZ
5. Tucson Head and Neck Cancer Support Group – “Advances in Head and Neck Radiotherapy,” November 5, 2013; Tucson, AZ
6. 64<sup>th</sup> annual ASSRT Conference Invited Speaker – “Advances in Head and Neck and Lung Cancer Radiotherapy,” July 27, 2013; Tucson, AZ
7. Collaborative Cancer Center Grand Rounds – “Towards Adaptive Radiotherapy,” May 3, 2013; Tucson, AZ
8. 11th Annual UCSF/UC Davis Thoracic Oncology Conference – “Locally Advanced Non-Small Cell Lung Cancer: A Case Presentation,” November 21, 2009; San Francisco, CA

### **Teaching and Mentorship:**

1. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Hemostasis and SVC Syndrome,” July 15, 2015
2. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Residency Program Orientation for 2015,” June 29, 2015
3. University of Arizona, Department of Radiation Oncology, Radiobiology Lecture Series, “OER & LET,” February 20, 2015
4. University of Arizona, Department of ENT, Clinical Lecture Series, “Head and Neck Radiation Oncology – An Introduction,” December 17, 2014
5. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Hemostasis and SVC Syndrome,” July 21, 2014
6. University of Arizona, Department of Radiation Oncology, Radiobiology Lecture Series, “OER & LET,” February 10, 2014
7. University of Arizona, Department of Radiation Oncology, Faculty Research Lecture Series, “Current Research in H&N Radiation Oncology,” January 13, 2014
8. University of Arizona, Department of ENT, Clinical Lecture Series, “Principles of Radiation Oncology,” December 11, 2013
9. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Mock Oral Boards in H&N Cancer,” December 6, 2013

10. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Mock Oral Boards in Lung Cancer,” September 27, 2013
11. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Hemostasis and SVC Syndrome,” July 19, 2013
12. University of Arizona, Department of Radiation Oncology, Clinical Radiation Oncology Lecture Series, “Mock Oral Boards in H&N Cancer,” April 12, 2013
13. University of Arizona, Department of Radiation Oncology, Radiobiology Lecture Series, “OER & LET,” February 4, 2013

### **Citizenship:**

#### Clinical Trials

### **Principle Investigator:**

#### **Investigator Initiated**

1. **Investigator Initiated** – Phase II Randomized Trial of Short-term Dexamethasone versus Placebo in Patients Receiving Radiation Alone or Radiation and Chemotherapy for the Treatment of Head and Neck and Non-Small Cell Lung Cancers – September 2014 – Present (**16 patients enrolled**)

#### **Collaborative Group**

1. NRG-HN002 – A Randomized Phase II Trial for Patients with p16 Positive, Non-smoking Associated, Locoregionally Advanced Oropharyngeal Cancer – February 2015 – Present (**1 patient enrolled**)
2. NRG-LU001 – Randomized Phase II Trial of Concurrent Chemoradiotherapy +/- Metformin Hcl in Locally Advanced NSCLC – February 2015 – Present (**1 patient enrolled**)
3. RTOG 1270/NCCTG N107 – Phase III Trial of Post-Surgical Stereotactic Radiosurgery (SRS) Compared With Whole Brain Radiotherapy (WBRT) for Resected Metastatic Brain Disease: April 2014 – December 2014
4. RTOG 1216 – Randomized Phase II/III Trial of Surgery and Postoperative Radiation Delivered with Concurrent Cisplatin versus Docetaxel versus Docetaxel and Cetuximab for High-Risk Squamous Cell Cancer Head and Neck: January 2014 – December 2014
5. SWOG 1206 – Dose Finding Study Followed by Phase II Randomized Placebo-Controlled Study of Veliparib (ABT-888) Added to Chemoradiotherapy with Carboplatin and Paclitaxel for Unresectable Stage III Non-Small Cell Lung Cancer: November 2013 – Present (**3 patients enrolled**)

6. RTOG 1016 – Phase III Trial of RT plus Cetuximab Versus Chemoradiotherapy in HPV Associated Oropharynx Cancer: April 2013 – August 2014 (**6 patients enrolled** prior to study closure)

#### **Co-Principle Investigator:**

1. **Investigator Initiated** – Phase II Study of Vertebral Augmentation and Radiotherapy in Painful or at Risk of Collapse Spinal Metastatic Cancer/Multiple Myeloma: August 2013 – Present (**3 patients enrolled**)
2. NRG-BR001 – A Phase I Study of Stereotactic Body Radiotherapy (SBRT) for the Treatment of Multiple Metastases – June 2015 – Present (**1 patient enrolled**)
3. RTOG 1010 – Phase III Trial Evaluating the Addition of Trastuzumab to Trimodality Treatment of HER2-Overexpressing Esophageal Adenocarcinoma: July 2013 – Present
4. CALGB 80803 – Randomized Phase II Trial Of Pet Scan-Directed Combined Modality Therapy In Esophageal Cancer: September 2014 – Present
5. RTOG 1205 – Randomized Phase II Trial of Concurrent Bevacizumab and Re-Irradiation versus Bevacizumab Alone as Treatment for Recurrent Glioblastoma:
6. Randomized, Double-blind, Controlled Phase IIb Study of the Safety and Efficacy of ICT-107 in Newly Diagnosed Patients with Glioblastoma Multiforme (GBM) Following Resection and Chemoradiation (Aptiv): June 2011 – Present

#### Undergraduate Medical Education Service

1. University of Arizona, Medical Student Orientation Career Choice Discussion – Panel Member, August 3, 2015
2. Class of 2018 White Coat Ceremony – Faculty Attendee, August 8, 2014

#### Administrative

1. University of Arizona, Department of Radiation Oncology – Residency Program Director, July 2015 – Present
2. University of Arizona, Cancer Center Clinical Research Oversight Committee – Board member, May 2015 – Present
3. University of Arizona, Head and Neck Multidisciplinary Clinic – Co-Director, September 2014 – Present
4. Clinical Competency Committee Radiation Oncology Program (**Chair**) – July 2014 – June 2015
5. Program Evaluation Committee (PEC) Member – University of Arizona Department of Radiation Oncology Residency Program, July 2014 – Present



6. University of Arizona, Department of Radiation Oncology – PACS SuperUser, April 2013 – Present
7. University of Arizona, Department of Radiation Oncology – Clerkship Director for Undergraduate Medical Education, April 2013 – Present

Editorial

1. Ad hoc reviewer for *Head & Neck* – December 2014 – Present
2. Editorial board member for *Jacobs Journal of Radiation Oncology* – May 2014 – Present