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ACADEMIC APPOINTMENTS

2010-2012 Instructor, Department of Radiation and Cellular Oncology, University of Chicago
2012- Assistant Professor, Department of Radiation and Cellular Oncology, University of Chicago
2010- Attending Physician, Department of Radiation and Cellular Oncology, University of Illinois

Ph.D.-Granting Committee, Program, Institute, and Center Appointments

2010- Residency Site Program Director – Department of Radiation Oncology, University of Illinois
2011- Cancer Liaison Physician for University of Illinois Cancer Center
2012- Medical Director, Department of Radiation Oncology, University of Illinois
2013- Assistant Program Director for Radiation Oncology Residency Training (GME), University of Chicago

ACADEMIC TRAINING

1997-2001 B.A., Biology. Cornell University, Ithaca, NY
2001-2005 M.D., University of Florida, Gainesville, FL
2005-2006 Internship, University of Maryland, Baltimore, MD
2006-2010 Residency, Department of Radiation Oncology, University of Maryland, Baltimore MD
2009 Externship in Pediatric Radiation Oncology, St. Jude's Hospital. Memphis, TN
2010 Externship in Gynecologic Radiation Oncology, Washington University, St. Louis, MO

BOARD CERTIFICATION AND LICENSURE

2011 American Board of Radiology (Radiation Oncology)

SCHOLARSHIP

(a) Peer-reviewed publications in the primary literature, exclusive of abstracts:

1. Jagadeesan VS, Raleigh DR, **Koshy M**, Howard AR, Chmura SJ, Golden DW. A national radiation oncology medical student clerkship survey: didactic curricular components increase confidence in clinical competency. *Int J Radiat Oncol Biol Phys.* 2014 Jan 1;88(1):51-6.

2. Golden DW, Spektor A, Rudra S, Ranck MC, Krishnan MS, Jimenez RB, Viswanathan AN, **Koshy M**, Howard AR, Chmura SJ. Radiation Oncology Medical Student Clerkship: Implementation and Evaluation of a Bi-institutional Pilot Curriculum. *Int J Radiat Oncol Biol Phys*. 2014 Jan 1;88(1):45-50.
3. Liu GF, Bair RJ, Bair E, Liauw SL, **Koshy M**. Clinical Outcomes for Gastric Cancer following Adjuvant Chemoradiation Utilizing Intensity Modulated versus Three-Dimensional Conformal Radiotherapy. *PLoS One*. 2014 Jan 9;9(1):e82642.
4. **Koshy M**. In response. (Letter) Radiochemotherapy in Clinical Stage IIIA Non-Small Cell Lung Cancer: Effective and Low Toxic Standard Treatment Option (In the Absence of Other Proven Treatments). *J Thorac Oncol*. 2013 Nov;8(11):e99-e100.
5. **Koshy M**. In response. (Letter) Improved Survival Associated with Neoadjuvant Chemoradiation in Patients with Clinical Stage IIIA (N2) Non-Small-Cell Lung Cancer *J Thorac Oncol*. 2013 Nov;8(11):e101.
6. Rutter, C. E., Husain, Z. A., Mancini, B. R., Naqvi, S. A., Zhang, B., Marter, K., **Koshy M**, Dhople A, Feigenberg, S. J. (2013). The use of heterogeneity corrections and its impact on delivered dose in patients treated with stereotactic body radiotherapy of the lung. *Journal of Radiation Oncology*, 1-8.
7. Solanki AA, Lemieux MH, Chiu BC, Mahmood U, Hasan Y, **Koshy M**. Long-Term Outcomes in Patients with Early Stage Nodular Lymphocyte-Predominant Hodgkin's Lymphoma Treated with Radiotherapy. *PLoS One*. 2013 Sep 18;8(9):e75336.
8. Mahmood U, Pugh T, Frank S, Levy L, Walker G, Haque W, **Koshy M**, Graber W, Swanson D, Hoffman K, Kuban D, Lee A. Declining use of brachytherapy for the treatment of prostate cancer. *Brachytherapy*. 2013 Sep 17.
9. Mahmood U, Hanlon AL, **Koshy M**, Buras R, Chumsri S, Tkaczuk KH, Cheston SB, Regine WF, Feigenberg SJ. Increasing national mastectomy rates for the treatment of early stage breast cancer. *Ann Surg Oncol*. 2013 May;20(5):1436-43
10. **Koshy M**, Fedewa SA, Malik R, Ferguson MK, Vigneswaran WT, Feldman L, Howard A, Abdelhady K, Weichselbaum RR, Virgo KS. Improved Survival Associated with Neoadjuvant Chemoradiation in Patients with Clinical Stage IIIA(N2) Non-Small-Cell Lung Cancer. *J Thorac Oncol*. 2013 Apr 19.
11. Golden DW, Raleigh DR, Chmura SJ, **Koshy M**, Howard AR. Radiation Oncology Fourth-Year Medical Student Clerkships: A Targeted Needs Assessment. *Int J Radiat Oncol Biol Phys*. 2013 Feb 1;85(2):296-7.
12. Spraker MB, Bair E, Bair R, Connell PP, Mahmood U, **Koshy M**. An analysis of patient characteristics and clinical outcomes in primary pulmonary sarcoma. *J Thorac Oncol*. 2013 Feb;8(2):147-51.
13. Mahmood U, Morris C, Neuner G, **Koshy M**, Kesmodel S, Buras R, Chumsri S, Bao T, Tkaczuk K, Feigenberg S. Similar Survival with Breast Conservation Therapy or

Mastectomy in the Management of Young Women with Early-Stage Breast Cancer. *Int J Radiat Oncol Biol Phys*. 2012 Aug 1;83(5):1387-93.

14. Kang JJ, Hou JH, Bui KM, Michals E, Valyi-Nagy T, **Koshy M**, Munson T, Charbel FT, Villano JL, Moss HE. De novo malignant optic chiasm glioma with initial clinical response to steroids. *Neuroophthalmology*. 2012 Apr 1;36(2):59-63.
15. **Koshy M**, Rich SE, Mahmood U, Kwok Y. Declining use of radiotherapy in stage I and II Hodgkin's disease and its effect on survival and secondary malignancies. *Int J Radiat Oncol Biol Phys*. 2012 Feb 1;82(2):619-25.
16. **Koshy M**, Villano JL, Dolecek TA, Howard A, Mahmood U, Chmura SJ, Weichselbaum RR, McCarthy BJ. Improved survival time trends for glioblastoma using the SEER 17 population-based registries. *J Neurooncol*. 2012 Mar;107(1):207-12.
17. Mahmood U, **Koshy M**, Goloubeva O, Suntharalingam M. Adjuvant Radiation Therapy for High-Grade and/or Locally Advanced Major Salivary Gland Tumors. *Arch Otolaryngol Head Neck Surg*. 2011 Oct;137(10):1025-30.
18. Villano JL, **Koshy M**, Shaikh H, Dolecek TA, McCarthy BJ. Age, gender, and racial differences in incidence and survival in primary CNS lymphoma. *Br J Cancer*. 2011 Oct 25;105(9):1414-8.
19. **Koshy M**. Is Computed Tomography Simulation Associated with Improved Survival or Is This Finding a Result of Confounding Variables? *Journal of Clinical Oncology*. 2011 Sep 10;29(26):3587
20. **Koshy M**, Rich S, Merchant TE, Mahmood U, Regine WF, Kwok Y. Post-operative radiation improves survival in children younger than 3 years with intracranial ependymoma. *J Neurooncol*. 2011 Dec;105(3):583-90.
21. **Koshy M**, Greenwald B, Hausner P, Krasna M, Horiba N, Battafarano R, Burrows W, Suntharalingam M. Outcomes after trimodality therapy for esophageal cancer: the impact of histology on failure patterns. *American Journal of Clinical Oncology*, 2011 Jun;34(3):259-64.
22. **Koshy M**, Goloubeva O, Suntharalingam M. The Impact of Neo-adjuvant Treatment on Survival in Stage III Non-small Cell Lung Cancer (NSCLC): Results from the SEER Registry. *International Journal of Radiation Oncology * Biology * Physics*, 2011 Apr 1;79(5):1388-94.
23. **Koshy M**, Zhang B, Naqvi S, Liu B, Mohiuddin M. A Novel Technique for Post-Mastectomy Breast Irradiation Utilizing Non-Coplanar Intensity Modulated Radiation Therapy. *British Journal of Radiology*. 2010 Oct;83(994):874-81.
24. Cheng S, Iannettoni M, **Koshy M**, Suntharalingam M, Urba S. Squamous Cell Carcinoma of the Esophagus: Treat with How Many Modalities? *Current Clinical Practice. Seminars in Oncology*. 2009 Dec;36(6):493-7.

25. **Koshy M**, Rich S, Mohiuddin M. Improved Survival with Radiation Therapy in High-Grade Soft Tissue Sarcomas of the Extremities: A SEER Analysis. *International Journal of Radiation Oncology * Biology * Physics*, 2010 May 1;77(1):203-9.
26. **Koshy M**, Zhao F, Garafalo M. Primary MALT Lymphoma of the Gallbladder: Case Report and Review of the Literature. *Journal of Gastrointestinal and Liver Diseases. J Gastrointestin Liver Dis.* 2008 Jun;17(2):207-10.
27. **Koshy M**, Paulino A, Mai W, Teh B. Radiation-induced osteosarcomas in the pediatric population. *International Journal of Radiation Oncology * Biology * Physics*, 2005. Vol. 63(4): 1169-1174.
28. Xian T, Liu Q, Deacon AM, **Koshy M**, Kriksunov IA, Lei XG, Hao Q, Thiel DJ. Crystal structure of a heat resilient phytase from *Aspergillus fumigatus*, carrying a phosphorylated histidine. *J Mol Biol.* 2004 May 28;339(2):437-45.

(b) Peer-reviewed works accepted or in press

1. Tye K, Engelhard H, Slavin K, Nicholas K, Chmura S, Kwok Y, Weichselbaum R, **Koshy M**. An Analysis of Radiation Necrosis of the Central Nervous System Treated with Bevacizumab. *J Neurooncol.* (In press)

(c) Other works that are publically available (websites, interviews, publications in the popular press, testimony, computer programs, protocols, reagents, inventions, patents not listed above, etc.)

2013 Association of Residents in Radiation Oncology – Web Based Educational Case Vignette - Locally Advanced Lung cancer.

(g) Clinical trials that are ongoing and unpublished

Active Protocols by IRB Number

2006-0470	Monitoring Brain Tumor Response to Radiation Treatment Using Sodium MR Imaging
2009-1189	E3F05: Phase III Study of Radiation Therapy with or without Temozolomide for Symptomatic or Progressive Low-Grade Gliomas
2010-0548	Investigating Radiation Pneumonitis
2011-0096	Phase I/II Study of Allogenic Stem Cell transplantation to Treat Clinically Aggressive Sickle Cell Disease
2011-0686	A Retrospective Study of CNS Gliomas treated at the University of Illinois at Chicago
2011-0221	Phase II Study: An Autologous Dendritic Cell Based Therapeutic Vaccine for Newly Diagnosed Glioblastoma Multiforme
2012-0126	Rates of Surgical Decompression for Epidural Spinal Cord Compression (ESCC) at the University of Illinois at Chicago

- 2012-0724 RTOG 0534: A Phase III Trial of Short Term Androgen Deprivation with Pelvic Lymph Node or Prostate Bed Only Radiotherapy (SPPORT) In Prostate Cancer Patients with a Rising PSA After Radical Prostatectomy
- 2013-0042 RTOG 1203: A Randomized Phase III Study of Standard vs. IMRT Pelvic Radiation for Post-Operative Treatment of Endometrial and Cervical Cancer (TIME-C)
- 2013-0201 BMT-03: Phase I Trial of Total Marrow Irradiation in Addition to High Dose Melphalan Conditioning prior to Autologous Transplant for Patients with Relapsed or Refractory Multiple Myeloma
- 2013-0202 BMT-02: A Phase I Trial of Total Marrow Irradiation in Addition to High Dose Melphalan Conditioning Prior to Autologous Transplant for Multiple Myeloma Following Initial Induction Therapy
- 2013-0231 RTOG 1216 - Randomized Phase II/III Trial of Surgery and Postoperative Radiation Delivered with Concurrent Cisplatin Versus Docetaxel ad Cetuximab for High-Risk Squamous Cell Cancer of the Head and Neck
- 2013-0243 NCCTG N1048 - A Phase II/III trial of Neoadjuvant FOLFOX, with Selective Use of Combined Modality Chemoradiation versus Preoperative Combined Modality Chemoradiation for Locally Advanced Rectal Cancer Patients Undergoing Low Anterior Resection with Total Mesorectal Excision
- 2013-0849 SCD-Haplo: A Phase II Study of HLA-Haploidentical Stem Cell Transplantation to Treat Clinically Aggressive Sickle Cell Disease
- 2013-0486 RTOG 1112: Randomized Phase III Study of Sorafenib Versus Stereotactic Body Radiation Therapy Followed by Sorafenib in Hepatocellular Carcinoma

(j) Works in review, in preparation, etc. not yet publically available [list ONLY if available for BSD review]

1. Koshy M, Mali R, Sher D, Morris C, Mahmood U, Ayodgan B, Weichselbaum R. Outcomes according to Radiation Dose in Stage III Non-small Cell Lung Cancer Patients undergoing Chemoradiotherapy. (Manuscript)

FUNDING

(a) Current:

1. NIH R01-12345. PI: J. Smith. My role: PI. Title: "Effect of C on D". Total direct costs: \$456,789. Annual salary recovery or effort: 35%. Project period: 1/2/09-1/2/15.

(b) Pending:

1. NIH R01-12345. PI: J. Smith. My role: PI. Title: "Effect of E on F". Total direct costs: \$456,789. Annual salary recovery or effort: 25%. Project period: 1/2/13-1/2/15. Notification expected: 1/2/12

HONORS, PRIZES, AND AWARDS

- 2001 Summer Research Fellowship at Rockefeller University
- 2002 NIH Summer Research Fellowship
- 2005 The John Harrington Tanous award for Research in Cancer
- 2008 Travel Grant Recipient for 2008 IGRT Symposium awarded by ASTRO
- 2008 Travel Grant Recipient for 2008 Lynn Sage Breast Cancer Conference
- 2009 Travel Grant Recipient for 2009 ACRO Conference
- 2010 Young Oncologist Essay Award Recipient for American Radium Society
- 2011 Teacher of the Year – Department of Radiation and Cellular Oncology

INVITED SPEAKING

- 2011 Radiation Therapy in the treatment of Prostate Cancer – Employee Health Series, University of Illinois
- 2011 The Role of Radiotherapy in the Treatment of Lung Cancer – Pulmonary Clinical Conference, University of Illinois
- 2012 Management of Radiation Pneumonitis. Pulmonary Clinical Conference, University of Illinois
- 2013 Role of Radiosurgery in Central Nervous System and Thoracic Malignancies – Grand Rounds, University of Illinois
- 2013 Role of Radiosurgery in the Management of Cord Compression. Neurosurgery Clinical Conference, University of Illinois
- 2014 Total Marrow Irradiation in the Treatment of Hematologic Malignancies – Bone Marrow Transplant Research Conference, University of Chicago.

INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE

- 2011 Author for the Radiation Oncology Inservice Examination. GU Section. American Board of Radiology
- Various Manuscript reviewer for International Journal of Radiation Oncology, Biology and Physics and American Journal of Clinical Oncology.

PROFESSIONAL SOCIETIES

Elected or invited membership:

American Board of Radiology

Other:

American Society of Therapeutic Radiation Oncology

American Society of Clinical Oncology

EDUCATION

University of Illinois College of Medicine at Chicago (M.D.):

(a) Clinical

- 2011- Clerkship Director for Radiation Oncology Elective (ELEC 692) in College of Medicine at University of Illinois.
Daily teaching of MS3 and MS4 students in the radiation oncology clinics for 12-15 students a year.

2010- Mentorship Program for medical students interested in applying to radiation oncology residency.

Graduate medical education (residency and clinical fellowships):

(a) Didactic

2010- Weekly one hour lecture with the resident on service.

2010- Weekly chart rounds with 2-3 residents.

2010- Introduction to Radiation Therapy for Lymphoma. Radiation Oncology Resident Summer Class.

2010- Role of Radiotherapy for Treatment of Myeloma. Annual Lecture in the Radiation Oncology Residency Lecture Series.

(b) Clinical

2010- Daily rounding and outpatient clinic with resident on service.

Research trainees:

(a) Medical (M.D.)

2010-2011 Yousef Ahmed, UIC College of Medicine, Clinical research advisor, Currently a MS3 at UIC.

2011-2012 Matthew Spraker, UIC College of Medicine, Clinical research advisor, Accepted for Radiation Oncology residency at the University of Washington, Seattle WA.

2013- Karen Tye, UIC College of Medicine. Clinical research advisor. Currently a MS2.

2013 Christian Fernandez, UIC College of Medicine. Clinical research advisor. Currently a MS3.

(b) Postdoctoral

2012 Gene Fu Liu, University of Chicago, Clinical Research Advisor. Currently a radiation oncology resident.

2013 Abhishek Solanki, University of Chicago, Clinical Research Advisor. Currently a radiation oncology resident.

2013 Mellissa LeMieux, University of Chicago, Clinical Research Advisor. Currently a radiation oncology resident.

CLINICAL

2010- Radiation Oncology and Radiosurgery Clinic (4 full day clinics per week, 12 months per year)

SERVICE

University of Illinois at Chicago

Committee membership:

2010-2012 Electronic Medical Records Committee

2010- Cancer Center Committee – Radiation Oncology Representative
2010- Quality Assurance Committee – Department of Radiation Oncology
2011- Cancer Center Institutional Review Board
2011- Cancer Center Quality Initiative Committee
2013- Lung Cancer Working Group
2014- Prostate Cancer Working Group

Leadership:

2012- Medical Director of Radiation Oncology at University of Illinois Hospital
2013- Assistant Program Director, Residency Program at University of Chicago
2013- Institutional Principal Investigator for the Radiation Therapy Oncology Group

Other:

2010- Interviewer of residency school applicants and faculty candidates, Department of Radiation and Cellular Oncology. University of Chicago