

# Jessica Zhou, MD

## OFFICE ADDRESS

Practice Locations                      St. Vincent Indianapolis Hospital  
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## EDUCATION

2005 – 2009                              Doctor of Medicine  
Johns Hopkins University School of Medicine, Baltimore, MD

2001 – 2005                              Bachelor of Arts, Biochemical Sciences  
Harvard University, Cambridge, MA

## POST-GRADUATE TRAINING

2010 – 2014                              Radiation Oncology Residency  
University of Michigan, Ann Arbor, MI

2009 – 2010                              Medical Internship  
St. Joseph Mercy Hospital, Ann Arbor, MI

## PROFESSIONAL EXPERIENCE

Feb 2017 – Present                      Cancer Care Group, P.C.  
Indianapolis, IN

2014 – Jan 2017                          Assistant Professor  
Residency Program Director  
Medical Student Clerkship Director  
Rush University Department of Radiation Oncology, Chicago, IL

## BOARD CERTIFICATION

2015 American Board of Radiology  
Certification in Radiation Oncology

## MEDICAL LICENSURE

Indiana: Dec 2016 – Present

## PROFESSIONAL ASSOCIATIONS

- American Society for Radiation Oncology
- American Brachytherapy Society
- NRG Oncology
- American Board of Radiology

## TECHNICAL EXPERTISE

- Stereotactic body radiotherapy (SBRT) for lung, liver, adrenal, spine, brain, and prostate
- LINAC-based stereotactic radiosurgery (SRS) for brain
- Intensity modulated radiation therapy (IMRT), volumetric arc therapy (VMAT), TomoTherapy
- Image-guided radiation therapy (IGRT) with Calypso, fiducial seed markers, cone-beam CT, active breathing control (ABC)
- High-dose-rate (HDR) 3D image-based intracavitary and interstitial brachytherapy for gynecologic malignancies
- Low-dose-rate (LDR) brachytherapy for prostate and ocular

## RESEARCH

### Editorial Work:

International Journal of Radiation Oncology, Biology, Physics  
Head and Neck

### Published Peer-Reviewed Articles and Editorials:

**Zhou J**, Prisciandaro J, Lee C, Schipper M, Eisbruch A, Jolly S. Single or multi-channel vaginal cuff high-dose-rate brachytherapy: Is replanning necessary prior to each fraction? *Practical Radiation Oncology*. 2014 Jan-Feb;4(1):20-6.

**Zhou J**, Griffith KA, Hawley ST, Zikmund-Fisher B, Janz NK, Sabel MS, Griggs JJ, Katz SJ, Jagsi R. Surgeons' knowledge and practices regarding the role of radiotherapy in breast cancer management. *Int J Radiat Oncol Biol Phys*. 2013 Dec 1;87(5):1022-9.

**Zhou J, Jolly S.** Obstructive sleep apnea and fatigue in head and neck cancer patients. *Am J Clin Oncol.* 2015 Aug;38(4):411-4.

**Zhou J, Hsu CC, Winter JM, Pawlik TM, Laheru D, Hughes M, Wolfgang C, Akbar U, Schulick R, Cameron J, Herman JM.** Adjuvant therapy for ampullary adenocarcinoma. *Radiat Oncol.* 2009 Aug;92(2):244-8.

Johnson S, Prisciandaro J, **Zhou J**, Hadley S, Reynolds RK, Jolly S. Primary peritoneal clear cell carcinoma treated with MR-based adjuvant IMRT followed by perioperative interstitial HDR brachytherapy. *J Appl Clin Med Phys.* 2014 Jan 6;15(1):4520.

Jackson W, Hamstra DA, Johnson S, **Zhou J**, Foster B, Foster C, Li D, Song Y, Palapattu G, Kunju L, Mehra R, Feng FY. Gleason pattern 5 is the strongest pathologic predictor of recurrence, metastasis, and prostate cancer-specific death in patients receiving salvage radiation therapy following radical prostatectomy. *Cancer.* 2013 Sep 15;119(18):3287-94.

Johnson S, Hamstra D, Jackson W, **Zhou J**, Foster B, Foster C, Song Y, Li D, Palapattu GS, Kunju L, Mehra R, Sandler H, Feng F. Larger maximum tumor diameter at radical prostatectomy is associated with increased biochemical failure, metastasis and death from prostate cancer following salvage radiation for prostate cancer. *Int J Radiat Oncol Biol Phys.* 2013 Oct 1;87(2):275-81.

Redmond K, Song D, Fox J, **Zhou J**, Rosenzweig N, Ford E. Respiratory motion changes of lung tumors over the course of radiation therapy based on respiration-correlated 4D-CT Scans. *Int J Radiat Oncol Biol Phys.* 2009 Dec 1;75(5):1605-12.

Fox J, Ford E, Redmond K, **Zhou J**, Song DY. Quantification of tumor volume changes during radiation for non-small cell lung cancer. *Int J Radiat Oncol Biol Phys.* 2009 Jun 1;74(2):341-8.

Johnson S, Jackson W, Li D, Song Y, Foster C, Foster B, **Zhou J**, Vainshtein J, Feng F, Hamstra D. The interval to biochemical failure is prognostic for metastasis, prostate cancer-specific mortality, and overall mortality after salvage radiation therapy for prostate cancer. *Int J Radiat Oncol Biol Phys.* 2013 Jul 1;86(3):554-61.

Jackson W, Johnson S, Foster B, Foster C, Li D, Song Y, Vainshtein J, **Zhou J**, Feng F, Hamstra D. Combining prostate-specific antigen nadir and time to nadir allows for early identification of patients at highest risk for development of metastasis and death following salvage radiation therapy. *Practical Radiation Oncology.* 2014 Mar-Apr;4(2):99-107.

Narang AK, Miller RC, Hsu CC, Bhatia S, Pawlik TM, Laheru D, Hruban RH, **Zhou J**, Winter JM, Haddock MG, Donohue JH, Schulick RD, Wolfgang CL, Cameron JL, Herman JM. Evaluation of adjuvant chemoradiation therapy for ampullary adenocarcinoma: the Johns Hopkins Hospital-Mayo Clinic collaborative study. *Radiat Oncol.* 2011 Sep 28;6:126.

Ford E, Purger, D, Tryggestad E, McNutt T, Christodouleas J, Rigamonti D, Shokek O, Won S, **Zhou J**, Lim M, Wong J, Kleinberg L. A Virtual Frame System for Stereotactic Radiosurgery Planning. *Int J Radiat Oncol Biol Phys.* 2008 Nov 15;72(4):1244-9.

### **Book Chapters:**

**Zhou J, Kong S.** Non-Small Cell Lung Cancer. In: Gaffney DK, editor. *Radiation Oncology: Imaging and Treatment.* 1<sup>st</sup> ed. Salt Lake City, Utah. Amirsys Publishing; 2013.

**Zhou J, Tsien C.** Imaging and Followup for Stereotactic Radiosurgery. In: Chin L, Regine WF, editors. *Principles and Practice of Stereotactic Radiosurgery,* 2<sup>nd</sup> ed. New York, NY. Springer Publishing; 2013.

### **Abstracts and Presentations:**

Sen N, Liao Y, Kiel K, Zusag T, **Zhou J.** Correlation between prescription depth and small bowel dose in vaginal cuff cylinder

brachytherapy. Poster presentation at 2015 American Brachytherapy Society Annual Meeting, Orlando, FL.

Sen N, Liao Y, Bernard D, Kiel K, **Zhou J**. Is re-planning necessary for each applicator insertion in MR-based tandem and ring brachytherapy? Poster presentation at 2015 ASTRO Annual Meeting, San Antonio, TX.

Sen N, Jozwiak R, Liao Y, **Zhou J**, Kiel K. Stereotactic body radiation therapy (SBRT) boost in the definitive treatment of gynecologic malignancies for non-brachytherapy candidates. Poster presentation at 2015 American Radium Society Annual Meeting, Kauai, HI.

**Zhou J**, Alexander N, Schipper MJ, Hunter K, Jolly S. The effect of resistance exercise training on health-related quality of life of head and neck cancer patients undergoing definitive chemoradiation: results of a pilot study. Poster presentation at 2013 ASTRO Annual Meeting, Atlanta, GA

**Zhou J**, Daignault-Newton S, Dunn R, Johnson S, Jackson W, Miller D, Wei J, McLaughlin P, Sanda M, Sandler H, Hamstra D. Fifteen-year patient reported quality of life outcomes among prostate cancer survivors treated with radical prostatectomy, external beam radiation, and brachytherapy. Oral presentation at 2014 ASTRO Annual Meeting, San Francisco, CA. 2<sup>nd</sup> place winner of Resident Poster Viewing Award.

**Zhou J**, Jolly S, Guo B, Young L, Johnson S, Prisciandaro J. Is there a dosimetric advantage of using a triple tandem applicator for HDR brachytherapy in the treatment of medically inoperable uterine cancer? Poster presentation at 2013 American College of Radiation Oncology Annual Meeting, San Antonio, TX.

**Zhou J**, Shen JC, Schipper MJ, Lawrence TS, Feng M. Definitive chemoradiation with full-dose gemcitabine for unresectable pancreatic cancer: a single-institution experience. Poster presentation at 2013 ASCO Gastrointestinal Cancers Symposium, San Francisco, CA.

Sanguineti G, **Zhou J**, Koch W, Tufano R, Gourin C, Sormani M, Marur S, Forastiere A. Rates of involvement for each neck nodal level in patients with early T-stage/node-positive oropharyngeal carcinoma. Poster presentation at 2008 ESTRO Annual Meeting, Goteborg, Sweden.

Sanguineti G, Califano J, **Zhou J**, Stafford E, Koch W, Tufano R, Gourin C, Sormani M, Marur S, Forastiere A. Defining the risk of involvement for each neck nodal level in patients with early T-Stage/ node-positive oropharyngeal carcinoma. Poster presentation at 2008 ASTRO Annual Meeting, Boston, MA.

**Zhou J**, Goenka A, Garg R, Richardson M, Forastiere A, Califano J, Koch W, Farrag T, Tufano R, Bajaj G. Optimal management of the neck in patients with locoregionally advanced oropharyngeal carcinoma: comparison of pre-radiotherapy neck dissection, post-radiotherapy neck dissection or observation. Poster presentation at 2007 ASTRO Annual Meeting, Los Angeles, CA.

Goenka A, Garg R, **Zhou, J** (oral presenter), Zheng Z, Farrag T, Koch W, Gibson M, Tufano R, Bajaj G. The management of metastatic cervical lymph nodes from an unknown primary site with radiation therapy to the involved neck and ipsilateral mucosal sites alone. Oral presentation at 2007 RSNA Annual Meeting, Chicago, IL.

**LANGUAGES:** English, Mandarin Chinese (fluent)