

## Yasmin Hasan, M.D.

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### ACADEMIC APPOINTMENTS

2008-2012 Instructor, Department of Radiation and Cellular Oncology, University of Chicago, IL  
2012- Assistant Professor, Department of Radiation and Cellular Oncology, University of Chicago, IL

### ACADEMIC TRAINING

1997-1999 B.Sc., Pennsylvania State University, Combined Pre-Med-Med Program  
1999-2003 M.D., Thomas Jefferson Medical College, PA  
2003-2004 Translational year resident, William Beaumont Hospital, MI  
2004-2007 Resident, Department of Radiation Oncology, William Beaumont Hospital, MI  
2007-2008 Chief Resident, Department of Radiation Oncology, William Beaumont Hospital, MI

### BOARD CERTIFICATION

State of Illinois Medical License # 036.121921  
2009 American Board of Radiology, Radiation Oncology

### SCHOLARSHIP

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

1. Vicini, F., Chen, P., Wallace, M., **Hasan, Y.**, Grills, I., Kestin, L., Schell, S., Goldstein, N., Kunzmann, J., Gilbert, S., Martinez, A. Interim Cosmetic Results and Toxicity Utilizing 3D Conformal External Beam Radiotherapy to Deliver Accelerated Partial Breast Irradiation in Patients with Early Stage Breast Cancer Treated with Breast Conserving Therapy. *Int J Radiat Oncol Biol Phys.* 2007 Nov 15;69(4):1124-30.  
<http://www.ncbi.nlm.nih.gov/pubmed/17967306>
- 2 **Hasan, Y.**, Kim, L., Martinez, A., Vicini, F., Yan, D. Image Guidance in External Beam Accelerated Partial Breast Irradiation: Comparison of Surrogates for the Lumpectomy Cavity. *Int J Radiat Oncol Biol Phys.* 2007 Dec 28;70(2):619-625.  
<http://www.ncbi.nlm.nih.gov/pubmed/18164869>
3. **Hasan, Y.**, Schoenherr, D., Martinez, A., Wilson, G., Marples, B. Prostate-Specific natural health products (dietary supplements) radiosensitize normal prostate cells. *Int J Radiat Oncol Biol Phys.* 2010 Mar 1;76(3):896-904.  
<http://www.ncbi.nlm.nih.gov/pubmed/20159364>
4. **Hasan, Y.**, Kim, L., Martinez, A., Vicini, F., Yan, D. Comparison of Planned versus Actual Dose Delivered for External Beam Accelerated Partial Breast Irradiation (EB

- APBI) using Cone-Beam CT (CBCT) and Deformable Registration. *Int J Radiat Oncol Biol Phys*, 2011 Aug 1;80(5):1473-6.  
<http://www.ncbi.nlm.nih.gov/pubmed/20656415>
5. Hasselle, MD, Rose, BS, Kochanski JD, Nath, SK, Bafana, R, Yashar, CM, **Hasan, Y**, Roeske, JC, Mundt, AJ, Mell, LK. Clinical Outcomes of Intensity-Modulated Pelvic Radiation Therapy for Carcinoma of the Cervix. *Int J Radiat Oncol Biol Phys*. 2011 Aug 1;80(5):1436-45.  
<http://www.ncbi.nlm.nih.gov/pubmed/20708346>
  6. Dorn, P.L., Corbin, K.S., Al-Hallaq, H., **Hasan, Y.**, Chmura, S.J. Feasibility and acute toxicity of hypofractionated radiation in large-breasted patients. *Int J Radiat Oncol Biol Phys*. 2012 May 1;83(1):79-83.  
<http://www.ncbi.nlm.nih.gov/pubmed/22035661>
  7. Song, S., Rudra, S., Hasselle, M., Dorn, P., Mell, L., Mundt, A., Yamada, S.D., Lee, N., **Hasan, Y.** The Effect of Treatment Time in Locally Advanced Cervical Cancer in the Era of Concurrent Chemoradiotherapy. *Cancer*. 2012 Jul 17.  
<http://www.ncbi.nlm.nih.gov/pubmed/22806897>
  8. Dorn, P., Al-Hallaq, H., Haq, F., Goldberg, M., Abe, H., **Hasan, Y.**, Chmura, S. A prospective study of the utility of magnetic resonance imaging in determining candidacy for partial breast irradiation. *Int J Radiat Oncol Biol Phys*. 2012 Jul 24.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4280848/>
  9. Jensen, L., Hasselle, M., Rose, B., Nath, S., **Hasan, Y.**, Scanderbeg, D., Yashar, C., Mundt, A., Mell L. Outcomes for patients with cervical cancer treated with extended-field intensity-modulated radiation therapy and concurrent Cisplatin. *Int J Gynecol Cancer*. 2013 Jan;23(1):119-25.  
<http://www.ncbi.nlm.nih.gov/pubmed/23262521>
  10. 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.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3776776/>
  11. Rudra S, Al-Hallaq HA, Feng C, Chmura SJ, **Hasan Y**. Effect of RTOG breast/chest wall guidelines on dose-volume histogram parameters. *J Appl Clin Med Phys*. 2014 Mar 6;15(2):4547.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4273498/>
  12. Corbin KS, Dorn PL, Jain SK, Al-Hallaq HA, **Hasan Y**, Chmura SJ. Hypofractionated radiotherapy does not increase acute toxicity in large-breasted women: results from a prospectively collected series. *Am J Clin Oncol*. 2014 Aug;37(4):322-6.  
<http://www.ncbi.nlm.nih.gov/pubmed/23357972>
  13. Padilla L, Kang H, Washington M, **Hasan Y**, Chmura SJ, Al-Hallaq H. Assessment of interfractional variation of the breast surface following conventional patient positioning for whole-breast radiotherapy. *J Appl Clin Med Phys*. 2014 Sep 8;15(5):4921.  
<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4273911/>
  14. Feng CH, Gerry E, Chmura SJ, **Hasan Y**, Al-Hallaq HA. of Postmastectomy Breast Cancer Patients Treated With Inverse-Planned Intensity Modulated Radiation Therapy. *Int J Radiat Oncol Biol Phys*. 2014 Oct 22. [Epub ahead of print]  
<http://www.ncbi.nlm.nih.gov/pubmed/25442344>
  15. Zhu H, Zakeri K, Vaida F, Carmona R, Dadachanji KK, Bair R, Aydogan B, **Hasan Y**, Yashar CM, Mell LK. Longitudinal study of acute haematologic toxicity in cervical cancer patients treated with chemoradiotherapy. *J Med Imaging Radiat Oncol*. 2015 Jun;59(3):386-93. doi: 10.1111/1754-9485.12297. Epub 2015 Apr 1.  
<http://www.ncbi.nlm.nih.gov/pubmed/25828068>

(b) Peer-reviewed works in 'non-traditional' outlets:

None

(c) Peer-reviewed works accepted or in press

1. Lukas, R., **Hasan, Y.**, Nicholas, M., Salgia, R., ROS1 rearranged non-small cell lung cancer brain metastases respond 5 to low dose radiotherapy ; Journal of Clinical Neuroscience, Accepted 11 April 2015

(d) Non-peer-reviewed original articles

1. **Hasan, Y.**, Vicini, F. Initial Results of the American Society of Breast Surgeons MammoSite Breast Brachytherapy Registry Trial. American Journal of Oncology Review 2006;5(4):204-212.
2. **Hasan, Y.**, Vicini, F. Accelerated Partial Breast Irradiation: 3-Dimensional Conformal External Beam Radiotherapy. Breast Cancer Online 2006;9(3):1-7.

(e) Books:

None

(e) Book chapters:

1. **Hasan, Y.**, Vicini, F. Accelerated Partial Breast Irradiation. Chapter 11: 3-D Conformal External Beam Technique, 2006.
2. **Hasan, Y.**, Cuttino, L., Vicini, F. The Breast: Comprehensive Management of Benign and Malignant Diseases. Chapter 66: Accelerated Partial Breast Irradiation. 2009.
3. **Hasan, Y.**, Vicini, F. Accelerated Partial Breast Irradiation. Chapter 11: 3-D Conformal External Beam Technique, 2nd Edition. 2009.
4. Kim, L, **Hasan, Y.** Image-Guided Radiation Therapy: A Clinical Perspective. Chaptre 18 C / Kilovoltage Cone Beam Computed Tomography-Guided Treatment Delivery in an Early Stage Breast Cancer Patient Using the Elekta Synergy Syste. 2010.
5. Gene, Liu, Ranck Mark, **Y, Hasan**: Cervical Cancer: Screening Methods, Risk Factors and Treatment Options. Editora: Nova Publisher. New York, EUA, 2013. Cervical Carcinoma Metastatic to the Para-Aortic Lymph Node Chain (pp. 183-198)

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

None

(g) Clinical trials that are ongoing and unpublished

**PI Trial**

1. IRB 13-1469: Phase I, Open-Label, Safety, Tolerability, And Immunogenicity Study Of Vgx-3100 And Ino-9012 Delivered By Electroporation In Women With Cervical Cancer After Chemoradiation (investigator initiated company sponsored trial, 2013-present)

**Co-investigator Trials**

1. RTOG 1005: A Phase III Trial of Accelerated Whole Breast Irradiation with Hypofractionation Plus Concurrent Boost Versus Standard Whole Breast Irradiation Plus Sequential Boost for Early-Stage Breast Cancer

2. GOG 249: A Phase III Trial of Pelvic Radiation Therapy Versus Vaginal Cuff Brachytherapy Followed by Paclitaxel/Carboplatin Chemotherapy in Patients with High Risk, Early Stage Endometrial Carcinoma
3. GOG 258: A Randomized Phase III Trial of Cisplatin and Tumor Volume Directed Irradiation Followed by Carboplatin and Paclitaxel vs. Carboplatin and Paclitaxel for Optimally Debulked, Advanced Endometrial Carcinoma
4. GOG 279: A Phase II Trial Evaluating Cisplatin (NSC #119875) and Gemcitabine (NSC #613327) Concurrent with Intensity-Modulated Radiation Therapy (IMRT) in the Treatment of Locally Advanced Squamous Cell Carcinoma of the Vulva
5. GOG 274: A Phase III Trial of Adjuvant Chemotherapy Following Chemoradiation as Primary Treatment for Locally Advanced Cervical Cancer Compared to Chemoradiation Alone: THE OUTBACK TRIAL (ANZGOG-0902/GOG-0274/RTOG-1174)
6. IMTMI COMBO IRB14-0709: A Phase I Study Of Intensity Modulated Total Marrow Irradiation (Imtmi) In Addition To Fludarabine/ Melphelan Conditioning For Allogeneic Transplantation For Advanced Hematologic Malignancies
7. BEAM ON 16802B: Biologic Endpoints in the Annihilation of Metastases for Oligometastasis (BEAM ON)

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

1. **Hasan, Y.**, Waller, J, Yao, K., Huo, D., The utilization of hypofractionated breast radiotherapy in the United States between 2003 and 2011." 2015
2. Kauffman, G., Wu, T., **Hasan, Y.** "Triple Tandem HDR Brachytherapy for Early Stage Medically Inoperable Endometrial Cancer: Initial Report on Acute Toxicity and Dosimetric Comparison to SBRT." 2015
3. Feng, CH., Miller, C., M. Salgia, M., Tenney, M., Lee, N., Yamada, S.D., and **Hasan, Y.**, "Statin use significantly improves overall survival in high-grade endometrial cancer" 2015
4. Sayan, M., Hubert, G., Chmura, S., **Hasan, Y.** "Hypofractionated Radiotherapy Does Not Increase Acute Toxicity in Women Treated with Oncoplastic Breast Conservation Surgery" 2015
5. Hasan, A., Yamada, D., Lee, N., Tenney, M., "PAP smear results after chemoradiotherapy" 2015

## **FUNDING**

(a) Past:

None

(b) Current:

IRB 13-1469 (**Inovio clinical trial**) is investigator-initiated and industry-funded.

(c) Pending:

None

## **HONORS, PRIZES, AND AWARDS**

2001	Thomas Jefferson University Research Scholarship
2001	National Youth Leadership Foundation Panelist
2002	Chester P. Steining Oncology Scholarship

2005	MSTRO - Resident Research Award
2005, 2007	American Brachytherapy Society - Resident Travel Grant Award
2006	Michigan Hospital Association GME Advocacy Day – Resident Representative
2007	Roentgen Resident Research Award
2008	ACRO Travel Grant Award

### **INVITED SPEAKING**

2011-present	Chicago Breast Reconstruction Symposium
2012	King Faisal Hospital, Riyadh. "Radiation therapy of gynecological malignancies: standards of care and beyond"
2013	Silver Cross Hospital: "Radiation therapy of gynecological malignancies: standards of care and beyond"
2013	University of Chicago DCAM OR, II. "How to use the Hover Bed"
2013	University of Chicago, US-China Forum in Obstetrics and Gynecology, "Gynecological Malignancies: Standards of Care and Beyond"
2014	Mercy Hospital, II, "Radiation therapy of gynecological malignancies: standards of care and beyond"
2014	University of Chicago, Dept of Radiation and Cellular Oncology Lecture Series, "Radiation therapy of Female Malignancies"
2015	University Hospital of Cleveland, "Immunotherapy and cervical cancer"
2015	RSNA Gyne Boost session, II. "Imaging and Gynecological cancer radiation treatment planning"

### **INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE**

2008-2009	Breast Center Navigation Team, University of Chicago, University of Chicago
2009-2010	Radiation Safety Committee Member, University of Chicago
2011-2013	Phoenix Ambulatory Advisory Committee
2013	Global Medical Leadership Program: US-China Forum in Obstetrics and Gynecology
2014	Moderator in Gyn Poster Discussion Scientific Session American Brachytherapy Society (ABS)
2015	RSNA Gyne Boost Session Lecturer
Various	Manuscript reviewer for Brachytherapy

### **PROFESSIONAL SOCIETIES**

#### Elected or invited membership:

2004-present	American Brachytherapy Society (ABS)
2004-present	Radiologic Society of North America (RSNA)

#### Other:

1999-2002	World Health Organization (WHO): International Federation of Medical Students Association
1999-2003	American Medical Association (AMA)
2004-2008	American Association of Residents in Radiation Oncology (ARRO)
2004-2008	Michigan Society of Therapeutic Radiology and Oncology (MSTRO)
2004-present	American Society of Therapeutic Radiology and Oncology (ASTRO)
2014	American College of Radiation Oncology (ACRO)
2015	American Society of Clinical Oncology (ASCO)

## **EDUCATION**

### The College (B.A., B.S.):

#### (a) Didactic

2009-2010 Cecilia Zvosec, Independent study course taught to student, "History of breast cancer", 1 hour per week, presently a graduate student at Columbia University

### Graduate programs (Ph.D.):

None

### Pritzker School of Medicine (M.D.):

#### (a) Didactic

None

#### (b) Clinical

2008-present Medical student rotations on my service 2-6 per year for 1 week at a time each. Clinical training in the OR and in outpatient clinic setting

### Graduate medical education (residency and clinical fellowships):

#### (a) Didactic

2008-present Yearly Gynecology Lecture for Residency Lecture Series

2008-present Radiation Therapy student lectures on gynecological and breast cancers

#### (b) Clinical

2008-Present Daily clinical and procedural teaching of resident, one to one, with change of resident every 3 months.

Skills taught:

Interstitial/Intracavitary 192Ir high dose rate gynecologic brachytherapy  
3D conformal treatment planning including virtual and standard simulation techniques

Proficiency in Pinnacle treatment planning system

Intensity Modulated Radiation Therapy (IMRT)

#### (c) Clinical Research

2008 Sonali Rudra, mentored in clinical research with publication on RTOG breast volumes, now practicing radiation oncologist at Georgetown University

2010 Lauren Herman, mentored in clinical research in medically inoperable endometrial cancer with presentation at RSNA, now senior radiation oncology resident at University of Chicago

2011 Abida Hasan, mentored in clinical research, now graduate of UCH Obstetrics and Gynecology Residency

2011 Farhan Rehman, mentored in clinical research, now Internal Medicine Resident at Case Western Reserve

2012 Suisui Song, mentored in clinical research with publication in Cancer, now practicing radiation oncologist, CA.

2013 Page Dorn, helped to mentor in clinical research on breast cancer with multiple publications, now practicing radiation oncologist, IL

2013 Mark Ranck, mentored writing of book chapter on advanced cervical cancer

2013 Gene Liu, mentored writing of book chapter on advanced cervical cancer

2014 Anthony Wong, ongoing clinical retrospective chart review in endometrial cancer for high-risk histology and outcomes

2015 Gregory Kauffman, triple tandem applicator dosimetric analysis and comparison to SBRT for medically inoperable endometrial cancer, oral poster discussion at ABS 2015 and paper in progress

Continuing medical education:

2014 ABS Moderator in Gyne Session  
2015 RSNA Boost Session for Gyne  
2015 Cleveland Hospitals Lecture

Other:

Research trainees:

(a) High school students and teachers  
None

(b) Undergraduate (B.A., B.S.)

2010 Bochenska K, A Prospective Multi-institutional Study of Ductal Carcinoma In Situ in African American and Caucasian Women  
2014-Present Meghan Salgia; Endometrial database formatting and data collection for 2 abstracts and papers in progress.  
2015 Joseph Waller Mentored in writing manuscript on Hypofractionated Breast Radiation, Among top 20 premeds in his class, Clinical Excellence Scholars Program.

(c) Medical (M.D.)

2008-2009 Eric Blashchke, Pritzker School of Medicine. (Presently in Radiology)  
2009-2010 Lauren Tait, Chicago Medical School. (Presently in Radiation Oncology Residency)  
2010-2011 Mira Goldberg. Mixed high grade histology endometrial cancer outcomes (Presently a senior resident in radiation oncology)  
A Prospective Multi-institutional Study of Ductal Carcinoma In Situ in African American and Caucasian Women  
2013-present Christine Huiting Feng; Pritzker School of Medicine; ongoing clinical gynecological and physics research with multiple abstracts and papers in progress.  
2014-present Charlie Miller, Drexel Medical School, retrospective database collection for endometrial cancer and statistical analysis.

(d) Graduate (Ph.D.)

2014 Laura Padilla, mentorship in research projects related to breast cancer and brachytherapy for cervical cancer

(e) Postdoctoral

None

(e) Other

None

## **SERVICE**

### **University of Chicago**

#### Committee membership:

2008-2009 Breast Center Navigation Team, University of Chicago, University of Chicago  
2009-2010 Radiation Safety Committee Member, University of Chicago  
2011-2013 Phoenix Ambulatory Advisory Committee  
2015 Cancer outcomes and policy meeting  
2015 Cancer prevention and control meeting

#### Leadership:

2013- present Director of Gynecologic Radiation Therapy and Brachytherapy Program

#### Other:

2008-present Interviewer of medical school applicants

### **Extramural (not indicated above)**

#### Leadership roles:

None

#### Other:

None

## **CLINICAL INTERESTS**

2008-2012 Primary women's malignancies radiation oncology service  
Breast, Gynecology and Adult Lymphoma Radiation Oncology service with approximately 10-15 LDR brachytherapy procedures per year  
Clinical volume: 25 patients on treatment with high proportion of minority and indigent population  
Highest departmental rate of collaboration with social services and psychiatry to address multifactorial issues that delay or prohibit patients from receiving care  
Pre-and post treatment issues of lymphedema and range of motion addressed by routine collaboration with Physical Therapy for prevention and treatment  
Sexual dysfunction addressed with routine collaboration with PRISM clinic  
Radiation Oncology Representative for the respective multidisciplinary tumor boards, 80% clinical FTE

2013-present Niche in women's malignancies through collaboration with Breast Surgery and Oncology, Plastics as well as Gynecology Oncology  
Pioneered and opened as PI the Phase I clinical trial for cervical cancer vaccine therapy after radiation for which practitioner and patient inquiries nationally and internationally have been received  
Co-investigator of national clinical trials open at University of Chicago  
Collaboration with Mid-West Gyne Radiation Oncology Group: Rush, Northwestern, and University of Michigan for consensus treatment recommendations for clinical care  
Continued clinical volume of 25 patients on treatment: service for Gynecological, Breast and Adult Lymphoma radiation therapy.  
Solo clinician who built and directs for the University of Chicago our standard of care HDR Gyne Brachytherapy Program via collaboration with Gyne Onc, hospital OR, anesthesia pain service, physics faculty, radiology and support personnel in our department.



Approximately 350 HDR procedures including 120 OR intracavitary and interstitial brachytherapy cases completed to date since the beginning of this program in mid-2013.

Last 6 months volume has shown 30 more procedures on average indicating steady growth in volume.

Services:

Image guided High-dose rate (HDR) brachytherapy – This technique uses a relatively intense source of radiation delivered through temporarily placed applicators. HDR brachytherapy has proven to be a highly successful treatment for cancers of the cervix, endometrium and vulva.

MRI based planning has been shown to improve outcomes and this is in the early phases of implementation in our program

Interstitial brachytherapy - With this unique treatment option, devices containing radioactive material are inserted directly into body tissue, thereby targeting tumor and sparing normal tissues. Complex planning and challenging patient comorbidities require intensive involvement by our support staff to reduce risk as these procedures from beginning to end may take 12-16 hours per day.

Triple-tandem brachytherapy – This treatment option is used for medically inoperable endometrial cancer. Complex planning and challenging patient comorbidities require intensive involvement by our support staff to reduce risk as these procedures from beginning to end may take 12-16 hours per day.

IMRT with simultaneous integrated boost using image guided techniques – This includes Cone Beam CT capability.