

Curriculum Vitae

Douglas A. Rahn III, MD

1. Education & Work Experience:

Assistant Professor, Radiation Oncology (07/2014 – present)	University of California – San Diego Department of Radiation Oncology
Radiation Oncology Residency (01/2011 – 6/2014)	University of California – San Diego Residency Program
Radiation Oncology Residency (07/2010 – 12/2010)	University of North Carolina Residency Program
Internship (06/2009 – 06/2010)	Scripps Mercy Hospital - San Diego Transitional Internship Program
Medical Degree (08/2005 – 05/2009)	University of Virginia School of Medicine M.D. Program
Full-Time Research Assistant (01/2005 – 08/2005)	University of Wisconsin - Madison Division of Otolaryngology
Undergraduate (08/2001 - 12/2004)	University of Wisconsin - Madison B.A. in Psychology

2. **Skills:**

- Varian Eclipse treatment planning software.
- Varian TrueBeam and RapidArc technology.
- Linac-based CNS radiosurgery, including frameless, open-mask immobilization with Align RT technology.
- Single-isocenter radiosurgery of multiple brain metastases.
- SBRT for lung cancer, liver metastases and pancreatic cancer, including 4D-CT simulation and respiratory gating.
- Radiosurgery / SBRT of vertebral metastases.
- Deep inspiration breath hold (DIBH) treatment for left-sided breast cancer.
- IMRT for disease sites including CNS, H&N, lung, GI, GU, GYN, sarcoma, and lymphoma.
- IGRT for prostate cancer IMRT using CBCT or fiducials.
- Total body irradiation (TBI).
- Xoft electronic brachytherapy.
- Specific business training in our 2-year course entitled “The Business of Radiation Oncology”.

3. **Awards and Honors:**

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| 7/2012 | Chief Resident – UCSD Radiation Oncology Residency Program |
| 7/2008 | Alpha Omega Alpha Honor Society. |
| 5/2007 | National Pathology Honor Society. |
| 5/2007 | Cumulative honors in pre-clinical years (MS1 and MS2). |
| 9/2006 | UVA Medical School Summer Research Program (MSSRP) – Honorable mention for achievement in a research project. |
| 6/2006 | American Academy of Neurology Medical Student Research Scholarship – Award of \$3,000 over 3 months. |

- 12/2004 Letters and Science Honors Program – Graduation with honors in Liberal Arts.
- 12/2002 Psi Chi – National honor society of Psychology students. Activities included fundraising, peer-advising, symposium/colloquium planning.
- 08/2001 Academic Excellence Scholarship (AES) – Undergraduate scholarship award of \$10,000.

4. Extracurricular Activities:

- 7/2011 – Present Education Committee Member - UCSD Dept. of Radiation Oncology
- 7/2011 – Present ACRO Member
- 7/2010 – Present ARRO Member
- 7/2008 – 5/2009 Founder & President - UVA medical school Radiation Oncology interest group
- 6/2006 – 9/2006 Research Scholar - UVA medical school summer research course

5. Hobbies:

-Playing soccer, running, cycling, camping, cooking, reading, travelling, and watching sports.

6. Research Experience:

- 2/2013 – Pres. Safety monitoring and errors in the radiotherapy clinic – Dr. Todd Pawlicki, UCSD Dept. of Radiation Oncology
- 1/2011 – Pres. Stereotactic Body Radiotherapy (SBRT) for Lung Cancer – Dr. Ajay Sandhu, UCSD Dept. of Radiation Oncology
- 1/2011 – Pres. Palliative Radiotherapy for Children with Cancer – Dr. Kevin Murphy, UCSD Dept. of Radiation Oncology
- 8/2009 – Pres. Deep inspiration breath hold for breast cancer radiotherapy – Dr. Laura Cerviño, UCSD Dept. of Radiation Oncology
- 4/2008 – 5/2009 Radiosurgery for brain metastasis of lung cancer – Dr. Tyvin Rich, UVA Dept. of Radiation Oncology

7. Journal Publications:

- Zhang Y, Jiang J, **Rahn DA**. Studying vocal fold vibrations in Parkinson's disease with a nonlinear model. *Chaos*. 15(3), 2005 Sep.
- Rahn DA**, Chou M, Zhang Y, Jiang JJ. Phonatory impairment in Parkinson's disease: Evidence from nonlinear dynamic analysis and perturbation analysis. *Journal of Voice*. 21(1), 64-71, 2007 Jan.
- Ghosh S, Patel N, **Rahn D**, McAllister J, Sadeghi S, Horwitz G, Berry D, Wang KX, Swerdlow RH. The thiazolidinedione pioglitazone alters mitochondrial function in human neuron-like cells. *Molecular Pharmacology*. 71(6), 1695-1702, 2007
- Lee VS, Zhou XP, **Rahn DA**, Wang EQ, Jiang JJ. Perturbation and nonlinear dynamic analysis of acoustic and phonatory signal in Parkinsonian patients receiving deep brain stimulation. *Journal of Communication Disorders*. 41(6):485-500;2008.
- Rahn DA**, Ray DK, Schlesinger DJ, Steiner L, Sheehan JP, O'Quigley JM, Rich T. Gamma knife treatment time for brain metastasis of non-small-cell lung cancer: Is there a difference in outcome between morning and afternoon treatment? *Cancer*. 117 (2): 414–420, 2011
- Rahn DA**, Read W, Sandhu A. Treatment of Lung Metastases from Ewing Sarcoma with Stereotactic Body Radiotherapy (SBRT) rather than Whole-Lung Irradiation. *J Postgrad Med Edu Res* 46(1): 34-36; 2012
- Rahn DA**, Thakur S, Makani S, Sandhu A. Stereotactic Body Radiation Therapy (SBRT) for Multiple Primary Lung Cancers (MPLC): A Review and Case Series. *Journal of Radiosurgery and SBRT*. 2(2): 135-140;2013
- Sandhu AP, Lau SK, **Rahn DA**, Nath SK, Kim D, Song WY, Gulaya S, Fuster MM, Bazhenova L, Mundt AJ. Stereotactic Body Radiation Therapy in Octogenarians with Early Stage Lung Cancer. *Clinical Lung Cancer*. 2013 Oct 21 [Epub ahead of print]
- Haidar YM, **Rahn DA**, Nath S, Song W, Bazhenova L, Makani S, Fuster MM, Sandhu AP. "Comparison of Outcomes following Stereotactic Body Radiotherapy (SBRT) for Non-Small Cell Lung Cancer (NSCLC) In Patients With and Without Pathological Confirmation". *Therapeutic Advances in Respiratory Diseases*. 2014 Feb;8(1):3-12.
- Rahn DA**, Mundt AJ, Murphy JD, Schiff D, Adams J, Murphy KT. Clinical outcomes of palliative radiotherapy for children. *Practical Radiation Oncology*. In press.
- Harry T, **Rahn D**, Semenov D, Gu X, Yashar C, Einck J, Jiang S, Cervino L. Cardiac dosimetric effect of different inspirational levels for radiotherapy of left breast cancer patients treated at deep inspiration breath hold. *Medical Dosimetry*. Submitted.

Rahn DA, Kim GY, Mundt AJ, Pawlicki T. A real-time quality and reporting system: Initial clinical outcomes and survey results. *International Journal of Radiation Oncology, Biology, Physics*. In press.

Davis SW, **Rahn DA**, Sandhu AP. Stereotactic body radiation therapy (SBRT) for non-small cell lung cancer (NSCLC): current concepts and future directions. *Transl Cancer Res* 2014;3(4):303-312.

8. Research Presentations:

Rahn D, Ghosh S, Patel N, McAllister J, Sadeghi S, Horwitz G, Berry D, Wang KX, Swerdlow RH. “The thiazolidinedione pioglitazone alters mitochondrial function in human neuron-like cells” Poster Presentation at UVA Medical School Research Symposium 2006 – Charlottesville, VA.

Rahn DA, Ray DK, Schlesinger DJ, Steiner L, Sheehan JP, O’Quigley JM, Rich T. “Gamma knife treatment time for brain metastasis of non-small-cell lung cancer: Is there a difference in outcome between morning and afternoon treatment?” Poster Presentation at ASTRO 2009 – Chicago, IL.

Rahn DA, Cerviño L, Harry T, Jiang S, Yashar C, Kelley C. “Radiation therapy for left breast cancer using deep inspiration breath hold (DIBH)” Poster Presentation at Scripps Mercy Hospital Gellar Research Conference 2010 – San Diego, CA.

Rahn DA, Mundt AJ, Murphy K. “Clinical Outcomes of Palliative Radiotherapy for Children: 5-year Institutional Data” Poster Presentation at ASTRO 2012 – Boston, MA.

Haidar YM, **Rahn DA**, Einck J, Mell L, Scanderbeg D, Yashar C “Dosing to Point A with Image Guided Brachytherapy and the Probability of Normal Tissue Excessive Dose in Cervical Cancer” Poster Presentation at ASTRO 2012 – Boston, MA.

Lau S, **Rahn D**, Nath SK, Kim D, Song WY, Gulaya S, Fuster MM, Bazhenova L, Mundt AJ, Sandhu AP “Stereotactic Body Radiation Therapy in Octogenarians With Early Stage Lung Cancer” Abstract accepted for poster presentation at ASTRO 2013 – Atlanta, GA.

Rahn DA, Kim G, Pawlicki T, Mundt AJ “A real-time safety and quality reporting system: Initial clinical outcomes and survey results” Oral presentation at ASTRO 2013 – Atlanta, GA.

9. Mentorship

Educational Mentorship:

Long Pham – Junior resident physician in Radiation Oncology
Steven Davis – Junior resident physician in Radiation Oncology
Erin Gillespie – Junior resident physician in Radiation Oncology
Anthony Paravati – Junior resident physician in Radiation Oncology

Research Mentorship:

Steven Lau – UCSD medical student class of 2013
Yarah Haidar – UCSD medical student class of 2013
Taylor Harry – SDSU student in Physics master's degree program, class of 2013