

JOHN JOSEPH O'CONNELL, M.D.

CURRICULUM VITAE

EDUCATION

Georgetown University School of Medicine, Washington, DC Degree: MD 1989 - 1993
United States Military Academy, West Point, NY Major: Electrical Engineering Degree: BS 1985 - 1989

GRADUATE MEDICAL EDUCATION

National Capital Consortium, Bethesda, MD Radiation Oncology Residency 1996 - 2000
Dwight David Eisenhower Army Medical Center, Fort Gordon, GA Transitional Internship 1993 - 1994

PROFESSIONAL EXPERIENCE

Clinical Assistant Professor, University of South Carolina School of Medicine – Greenville, Greenville, SC 10/2014 – Present
Radiation Oncologist, Greenville Health System Cancer Institute, Greenville, SC 07/2014 – Present
Attending, Radiation Oncology Service, Walter Reed National Military Medical Center, Bethesda, MD 01/2014 – 05/2014
Program Director, National Capital Consortium Radiation Oncology Residency, Bethesda, MD 01/2008 – 01/2014
Attending, Radiation Oncology Service, Walter Reed Army Medical Center, Washington, DC 11/2007 – 01/2008
Brigade Surgeon, 82nd Sustainment Brigade, LSA Adder, Iraq 08/2006 – 11/2007
Brigade Surgeon, 82nd Sustainment Brigade, Fort Bragg, NC 07/2006 – 08/2006
Attending, Radiation Oncology Service, Walter Reed Army Medical Center, Washington, DC 01/2006 – 07/2006
Chief, Radiation Oncology Service, Walter Reed Army Medical Center, Washington, DC 07/2003 – 12/2005
Assistant Chief, Radiation Oncology Service, Walter Reed Army Medical Center, Washington, DC 07/2002 – 06/2003
Attending, Radiation Oncology Service, Walter Reed Army Medical Center, Washington, DC 07/2000 – 06/2002
Radiation Oncology Resident, National Capital Consortium, Bethesda, MD 07/1996 – 06/2000
Battalion Surgeon, 3rd Battalion, 3rd Special Forces Group (Airborne), Fort Bragg, NC 08/1994 – 06/1996
Flight Surgeon Student, Fort Rucker, GA 07/1994 – 08/1994
Transitional Intern, Dwight David Eisenhower Army Medical Center, Fort Gordon, GA 06/1993 – 06/1994

COMMITTEES

Member, Scientific Review Committee, Walter Reed National Military Medical Center 2013 - 2014
Organizing Committee, Workshop on Ion Beam Therapy sponsored by DOE Office of Science and National Cancer Institute 2012 - 2013
Associate Member & Radiation Oncology Responsible Investigator, Children's Oncology Group 2010 - 2014
National Capitol Consortium Graduate Medical Education Committee 2008 - 2014
Chairman, Association of Residents in Radiation Oncology 1999 - 2000
Board Member, Association of Residents in Radiation Oncology 1998 - 1999

ACADEMIC HONORS

Association of Residents in Radiation Oncology Teacher of the Year Award, National Capital Consortium 2009
Distinguished Graduate, United States Military Academy 1989
VFW Award for Classical and Modern Physics, United States Military Academy 1989

BOARD CERTIFICATIONS

American Board of Radiology (Radiation Oncology) - Recertification 2010
American Board of Radiology (Radiation Oncology) 2000
Diplomate, National Board of Medical Examiners 1994

PROFESSIONAL SOCIETIES

Member, National Catholic Bioethics Center
Member, American Society for Therapeutic Radiology and Oncology
Member, Catholic Medical Association

2011 - Present
2002 - Present
2001 - Present

PUBLICATIONS

- Schlaff CD, Krauze A, Belard A, **O'Connell JJ**, Camphausen KA. *Bringing the heavy: carbon ion therapy in the radiobiological and clinical context*. **Radiat Oncol**. 2014 Mar 28;9(1):88.
- Mayer RR, Ma F, Chen Y, Miller RI, Belard A, McDonough J, **O'Connell JJ**. *Enhanced dosimetry procedures and assessment for EBT2 radiochromic film*. **Med Phys**. 2012 Apr;39(4):2147-55. Erratum in: **Med Phys**. 2012 Jul;39(7):4617.
- Chen Y, **O'Connell JJ**, Ko CJ, Mayer RR, Belard A, McDonough JE. *Fiducial markers in prostate for kV imaging: quantification of visibility and optimization of imaging conditions*. **Phys Med Biol**. 2012 Jan 7;57(1):155-72.
- Simone CB 2nd, Kramer K, O'Meara WP, Bekelman JE, Belard A, McDonough J, **O'Connell J**. *Predicted Rates of Secondary Malignancies from Proton Versus Photon Radiation Therapy for Stage I Seminoma*. **Int J Radiat Oncol Biol Phys**. 2012 Jan 1;82(1):242-9.
- Simone CB 2nd, Ly D, Dan TD, Ondos J, Ning H, Belard A, **O'Connell J**, Miller RW, Simone NL. *Comparison of intensity-modulated radiotherapy, adaptive radiotherapy, proton radiotherapy, and adaptive proton radiotherapy for treatment of locally advanced head and neck cancer*. **Radiother Oncol**. 2011 Dec;101(3):376-82.
- Belard A, Dolney D, Zelig T, McDonough J, **O'Connell J**. *Improving proton therapy accessibility through seamless electronic integration of remote treatment planning sites*. **Telemed J E Health**. 2011 Jun;17(5):370-5.
- Erickson D, Greer L, Belard A, Tinnel B, **O'Connell J**. *A Hybrid ISDN-IP Solution for Resident Education*. **Telemed J E Health**. 2010 May;16(4):454-60
- Belard A, Tinnel B, Wilson S, Ferro R, **O'Connell J**. *Development of a remote proton radiation therapy solution over internet2*. **Telemed J E Health**. 2009 Dec;15(10):998-1004.
- Brooks JP, Albert PS, **O'Connell J**, McLeod DG, Poggi MM. *Lymphovascular invasion in prostate cancer: prognostic significance in patients treated with radiotherapy after radical prostatectomy*. **Cancer**. 2006 Apr 1;106(7):1521-6.

INVITED PRESENTATIONS

- O'Connell J**. *Ion Workshop Summary Clinical/Radiobiology*. **Joint Symposium 2013 on Carbon Ion Radiotherapy**. May 2013; Invited Lecture: Rochester, MN.
- O'Connell J**. *The Walter Reed Experience: Is Carbon Therapy in Our Future?* **2013 National Proton Conference: Improving Cancer Outcomes with Proton Therapy**. February 2013; Invited Lecture: Washington, DC.

ABSTRACT PRESENTATIONS

- L.L. Greer, H. Ning, Y. Zhuge, D. Erickson, A. Kaushal, M. Kamrava, K. Kramer, R. Kiteley, A. Belard, **J.J. O'Connell**. *Dosimetric Comparison of Photon Stereotactic Ablative Radiation Therapy (SABR) and Proton SABR in the treatment of Prostate Cancer Patients*. **54th Annual Meeting of the American Society for Radiation Oncology**. October 2012; Poster presentation: Boston, MA.
- O'Connell J**, Kiteley RA, Lillis-Hearne PK, Macdonald D, Wilds HB, Flynn DF, Jones N, Stickney E, Miles EF, Nelson JW, Eastham D. *The Role of U.S. Military Radiation Oncologists in Modern*

- Warfare. Radiological Society of North America 2011 Scientific Assembly and Annual Meeting.* November 2011; Oral presentation: Chicago, IL.
- D.L. Erickson, C. Smith, L.L. Greer, D.A. Gant, D.G. McLeod, **J.J. O'Connell**. *Five Year PSA-Failure Rates for Prostate Cancer Patients Treated with Dose-Escalated IMRT.* **53rd Annual Meeting of the American Society for Radiation Oncology.** October 2011; Poster presentation: Miami, FL.
- L.L. Greer, K. Kramer, M. Kamrava, C. Smith, D. Erickson, R. Kiteley, A. Belard, **J.J. O'Connell**. *Dosimetric Comparison of Parallel Opposed-Laterals versus Parallel Opposed-Laterals Plus an Anterior Field for Proton Therapy Prostate Plans.* **53rd Annual Meeting of the American Society for Radiation Oncology.** October 2011; Poster presentation: Miami, FL.
- C.B. Simone, **J. O'Connell**, S. Both, J.R. Mansueti, J. Christodouleas, C. Deville, J. McDonough, N. Vapiwala, J.A. Efstathiou, J.A. Bekelman. *Para-aortic Nodal Clinical Target Volume Delineation in the Era of Particle Therapy.* **53rd Annual Meeting of the American Society for Radiation Oncology.** October 2011; Poster presentation: Miami, FL.
- Belard A, Dolney D, Tochner Z, McDonough J, **O'Connell J**. *Implementation of a Remote Proton Radiation Treatment Planning Solution for Department of Defense Cancer Patients.* **American Telemedicine Association 16th Annual International Meeting.** 2011 May; Oral Presentation: Tampa, FL.
- Kesarwala AH, Belard A, Dolney D, Eickstaedt B, McDonough J, Tochner Z, **O'Connell JJ**. *Electronic Integration of Radiation Oncology Clinics via Remote Proton Radiotherapy Telemedicine Solution.* **Int J Radiat Oncol Biol Phys.** 2010 Nov 1; 78(3):S491. **American Society of Radiation Oncology (ASTRO) 52nd Annual Meeting.** 2010 Nov; Poster Presentation: San Diego, California. and **Ion Beams in Biology and Medicine (IBIBAM) 13th Workshop.** 2010 Oct; Poster Presentation: Berkley, California.
- Simone II C, Kramer K, O'Meara W, Belard A, McDonough J, **O'Connell J**. *Comparison of predicted excess secondary malignancies and normal tissue toxicities between proton and photon irradiation in the treatment of stage I seminoma.* **Particle Therapy Co-Operative Group (PTCOG) 48th Meeting.** 2009 Oct; Poster Presentation: Heidelberg, Germany.
- Kamrava M, Kramer K, Erickson D, Kiteley R, Belard A, **O'Connell J**. *Dosimetric Comparison of Parallel Opposed-Laterals versus Parallel Opposed-Laterals plus an Anterior Field for Proton Therapy Prostate Plans.* **Particle Therapy Co-Operative Group (PTCOG) 48th Meeting.** 2009 Oct; Poster Presentation: Heidelberg, Germany.
- Chen Y, **O'Connell J**, Ko C, McDonough J. *Quantitative Assessment of the Visibility of Fiducial Makers in Prostate by Monte Carlo Simulation of On-Board kV Imaging System.* **Particle Therapy Co-Operative Group (PTCOG) 48th Meeting.** 2009 Oct; Poster Presentation: Heidelberg, Germany.
- Erickson D, Greer L, Belard A, Tinnel B, **O'Connell J**. *Ability to use Telemedicine Platforms to Teach Proton Treatment Planning at multiple locations as demonstrated in Resident Education.* **Particle Therapy Co-Operative Group (PTCOG) 48th Meeting.** 2009 Oct; Poster Presentation: Heidelberg, Germany.
- Tinnel B, Belard A, McDonough J, **O'Connell J**, Tochner ZA, Ferro R. *Improving proton therapy accessibility through seamless electronic integration of remote treatment planning sites.* **Particle Therapy Co-Operative Group (PTCOG) 48th Meeting.** 2009 Oct; Poster Presentation: Heidelberg, Germany.
- O'Connell J**, Belard A, Ferro R, Greer L, McDonough J, Tinnel B. *Development of a Hybrid Multi-Point Remote Proton Treatment Planning Solution.* **American Telemedicine Association 14th Annual International Meeting.** 2009 Apr; Poster Presentation: Las Vegas, NV.

Greer L, Belard A, Ferro R, McDonough J, Tinnel B, **O'Connell J**. *Radiation Treatment Planning Training*. **American Telemedicine Association 14th Annual International Meeting**. 2009 Apr; Poster Presentation: Las Vegas, NV.

Fry D, Sewchand W, **O'Connell JJ**. *An In-depth Generic Characterization of Monte Carlo Generated Clinical Proton Depth Dose*. **Particle Therapy Co-Operative Group (PTCOG) 43rd Meeting**. 2005 Dec; Oral Presentation: Munich, Germany.

Fry D, Sewchand W, **O'Connell JJ**. *A Comparison of Three Monte Carlo Tools for Proton Radiotherapy: SRIM, PTRAN and GEANT 4.7.0*. **Particle Therapy Co-Operative Group (PTCOG) 43rd Meeting**. 2005 Dec; Poster Presentation: Munich, Germany.

Boyer D, Wilson SS, Dullea MD, Chang A, **O'Connell JJ**. *Confirmation of daily patient position reproducibility during Stereotactic Radiotherapy*. **LINAC Radiosurgery Meeting**. 2002 Dec; Oral Presentation: Orlando, FL.

GRANTS

PI on sub-award for Remote Proton Treatment Planning from University of Pennsylvania Sub-award #549118 as part of US Army Medical Research and Materiel Command Grants W81XWH0420022 and W81XWH0720121. 2004-2012. Sub-award total \$3.96M.

NOTABLE MILITARY AWARDS AND DECORATIONS

Legion of Merit Medal
Bronze Star Medal
Meritorious Service Medal with one oak leaf cluster
Armed Forces Expeditionary Medal
Iraq Campaign Medal
Global War on Terrorism Service Medal
Humanitarian Service Medal
Senior Parachutist Badge
Flight Surgeon Badge
Zimbabwe Army Parachutist Badge

NOTABLE MILITARY EDUCATION

U.S. Army Special Operations Command Jumpmaster's Course, Harare, Zimbabwe	1995
U.S. Army School of Aviation Medicine Flight Surgeon's Course, Fort Rucker, Alabama	1994
Army Medical Department Officer's Basic Course, Fort Sam Houston, Texas	1990
U.S. Army Infantry School Basic Airborne Training, Fort Benning, Georgia	1988