Jaroslaw Tadeusz Hepel, M.D., F.A.C.R.O

Associate Professor Department of Radiation Oncology and

Department of Neurosurgery

Warren Alpert Medical School of Brown University

Adjunct Associate Professor Department of Radiation Oncology *Tufts University School of Medicine*

> Rhode Island Hospital 593 Eddy St. Providence, RI 02903 Tel (401) 444-8311 Fax (401) 444-2149 jhepel@lifespan.org

Education

Undergraduate:

Aug. 1993 – June 1997 Cornell University

Ithaca, NY

Bachelor of Arts in Biology Bachelor of Arts in Psychology

Graduated with distinction in all subjects

Medical School:

Aug. 1997 – May 2001 University of Rochester

School of Medicine and Dentistry

Rochester, New York Doctor of Medicine

Postgraduate Training:

July 2001 – July 2002 Intern – Internal Medicine

UCI Medical Center

University of California at Irvine

Orange, California

July 2002 – July 2004 Resident – Internal Medicine

UCI Medical Center

University of California at Irvine

Orange, California

July 2005 – June 2008 Resident – Radiation Oncology

Tufts Medical Center (Formerly NEMC)

Tufts University

Boston, Massachusetts

July 2008 – June 2009 Chief Resident – Radiation Oncology

Tufts Medical Center (Formerly NEMC)

Tufts University Boston, Massachusetts

Honors and Awards

1994-1997 Dean's List, Cornell University

1997 Phi Beta Kappa 1997 Phi Kappa Phi

1997 Golden Key National Honor Society

July 2001 – July 2004 Residency Class Representative – Internal Medicine, UCI July 2008 – June 2009 Chief Resident – Radiation Oncology, Tufts Medical Center

2014 Dean's Excellence in Teaching Award, Warren Alpert Medical School

of Brown University

Fellowship in the American College of Radiation Oncology (ACRO)
Dean's Excellence in Teaching Award, Warren Alpert Medical School

of Brown University

2015 Educator of the Year, Association of Residents in Radiation

Oncology (ARRO)

Top Doctors 2019, Rhode Island Monthly

Licensure and Certification

Board Certification:

Oct. 2004 – Oct. 2014 American Board of Internal Medicine

May 2010 – Present American Board of Radiology - Radiation Oncology

Medical Licenses:

2002 – 2005 California (not renewed upon relocation) 2009 – 2010 Maryland (not renewed upon relocation)

2005 – Present Massachusetts 2009 – Present Rhode Island

Academic Appointments

2004 Volunteer Faculty

Department of Internal Medicine University of California at Irvine

Orange, CA

2005 – 2009 Teaching Fellow

Department of Radiation Oncology Tufts University School of Medicine

Boston, MA

2005 – 2009 Teaching Fellow

Department of Radiation Oncology

Warren Alpert Medical School of Brown University

Providence, RI

2010 – 2017 Assistant Professor

Department of Radiation Oncology

Providence, RI 2016 - 2017Assistant Professor Department of Neurosurgery Warren Alpert Medical School of Brown University Providence, RI 2010 - 2017Adjunct Assistant Professor Department of Radiation Oncology Tufts University School of Medicine Boston, MA 2010 - 2015Associate Director Radiation Oncology Residency Program Tufts Medical Center and Affiliated Hospitals Tufts University School of Medicine Boston, MA and Providence, RI 2011 - 2017Director Medical Student Clerkship Department of Radiation Oncology Warren Alpert Medical School of Brown University Providence, RI 2012 – Present Coordinator Resident/Fellow Elective in Radiation Oncology Department of Radiation Oncology Rhode Island Hospital and Warren Alpert Medical School of Brown University Providence, RI 2017 - Present **Associate Professor** Department of Radiation Oncology Warren Alpert Medical School of Brown University Providence, RI 2017 - Present Associate Professor Department of Neurosurgery Warren Alpert Medical School of Brown University Providence, RI

Adjunct Associate Professor

Boston, MA

Department of Radiation Oncology Tufts University School of Medicine

2017 - Present

Warren Alpert Medical School of Brown University

2015 – Present Director of Academic Affairs for the

Department of Radiation Oncology

Rhode Island Hospital

Warren Alpert Medical School of Brown University

Providence, RI

and

Department of Radiation Oncology

Tufts Medical Center

Tufts University School of Medicine

Boston, MA

Hospital/Clinical Appointments

2004 Internal Medicine per Diem

Kaiser Permanente Baldwin Park, CA

2004 Internal Medicine per Diem

VA Hospital Long Beach, CA

2009 – 2010 Radiation Oncologist

St. Agnes Hospital Baltimore, MD

2009 – 2010 Radiation Oncologist

Greater Baltimore Medical Center

Baltimore, MD

2010 – Present Radiation Oncologist

Tufts Medical Center

Boston, MA

2010 – Present Radiation Oncologist

Miriam Hospital Providence, RI

2010 – Present Radiation Oncologist

Women and Infants' Hospital

Providence, RI

2010 – Present Radiation Oncologist

Rhode Island Hospital

Providence, RI

2017 – Present Radiation Oncologist

Newport Hospital

Newport, RI

Rhode Island Hospital Providence, RI

National Committees	<u>-</u>
2010 – 2015	Member Association for Directors of Radiation Oncology Programs (ADROP)
2011 – 2012	Co-Leader Clinical Practice Guidelines: Breast Cancer American College of Radiation Oncology (ACRO)
2010 – 2015	Disease Site Co-Leader (Breast Cancer) American College of Radiation Oncology (ACRO) Practice Accreditation Program
2010 – Present	Member Standards Committee American College of Radiation Oncology (ACRO)
2013 – Present	Member Socioeconomic Committee American Brachytherapy Society (ABS)
2013 – 2014	Chair - Breast Cancer Section Scientific Planning Committee Annual Meeting 2014 American Brachytherapy Society (ABS)
2014 – 2016	Member Billing and Coding Evaluation Subcommittee American Society of Radiation Oncology (ASTRO)
2014 – 2015	Chair Scientific Planning Committee Annual Meeting 2015 American Brachytherapy Society (ABS)
2015 – 2017	Chair Membership Committee American Brachytherapy Society (ABS)
2015 – 2016	Co-Chair – Miscellaneous Section Scientific Planning Committee Brachytherapy World Congress 2016
2015 – Present	Disease Site Leader (Breast Cancer)

American College of Radiation Oncology (ACRO)

Practice Accreditation Program

2015 – Present Medical Director

American College of Radiation Oncology (ACRO)

Practice Accreditation Program

2017 Abstract Reviewer – Breast Section

Scientific Planning Committee

Annual Meeting 2017

American Brachytherapy Society (ABS)

2017 Abstract Reviewer – Miscellaneous Section

Scientific Planning Committee

Annual Meeting 2017

American Brachytherapy Society (ABS)

2017 Abstract Reviewer – Thoracic Section

Scientific Planning Committee

Annual Meeting 2017

American Society of Radiation Oncology (ASTRO)

2018 Abstract Reviewer – Breast Section

Scientific Planning Committee

Annual Meeting 2018

American Brachytherapy Society (ABS)

2018 Abstract Reviewer – Thoracic Section

Scientific Planning Committee

Annual Meeting 2018

American Society of Radiation Oncology (ASTRO)

2018 – Present Co-Chair

Membership Committee

American Brachytherapy Society (ABS)

2019 Abstract Reviewer – Breast Section

Scientific Planning Committee

Annual Meeting 2019

American Brachytherapy Society (ABS)

2019 Abstract Reviewer – Thoracic Section

Scientific Planning Committee

Annual Meeting 2018

American Society of Radiation Oncology (ASTRO)

2019 – Present Chair

Standards Committee

American College of Radiation Oncology (ACRO)

2019 – Present Board Member

Board of Chancellors

American College of Radiation Oncology (ACRO)

Hospital Committees

2010 – 2014 Member

Website Design Committee

Department of Radiation Oncology

Rhodes Island Hospital

2010 – 2014 Member

Marketing Committee

Radiosurgery Center of Rhode Island (RCRI)

2011 – 2014 Chair

Quality Council

Radiosurgery Center of Rhode Island (RCRI)

2012 - 2016 Member

Patient Satisfaction Improvement Committee

Department of Radiation Oncology

Rhodes Island Hospital

2014 – Present Member

Breast Cancer Steering Committee

Rhodes Island Hosp., Miriam Hosp., and Newport Hosp.

2015 – Present Member

Quality Improvement Committee Department of Radiation Oncology

Rhodes Island Hospital

2017 – Present Member

DFCI-LCI Breast Work Group Lifespan Cancer Institute

2017 – Present Member

DFCI-LCI CNS Work Group Lifespan Cancer Institute

2018 – Present Member

Cancer Clinical and Research Council (CCRC)

Lifespan Cancer Institute

University Committees

2010 – Present Member

Brown University Oncology Research Group (BrUOG) Warren Alpert Medical School of Brown University

2010 – Present Member

Data Safety Monitoring Committee

Brown University Oncology Research Group (BrUOG) Warren Alpert Medical School of Brown University

2016 – Present Member

Medical Physics Residency Education Committee

Medical Physics Residency Program

University of Rhode Island

2017 – Present Associate Chair

Breast Section

Brown University Oncology Research Group (BrUOG) Warren Alpert Medical School of Brown University

2017 – Present Chair

Promotions Committee

Department of Radiation Oncology

Warren Alpert Medical School of Brown University

Special Programmatic Development

2010 Stereotactic Radiosurgery

Great Baltimore Medical Center, Baltimore, MD

2011 Non-invasive Image-guided Breast Brachytherapy (NIBB) for APBI

Rhode Island Hospital, Providence, RI

2014 Gamma Knife Perfexion Stereotactic Radiosurgery

Rhode Island Hospital, Providence, RI

2014 BrainLab Stereotactic Radiotherapy and Radiosurgery

Rhode Island Hospital, Providence, RI

Align RT treatment positioning and motion management

Rhode Island Hospital, Providence, RI

Deep Inspiratory Breath Hold (DIBH) technique for breast cancer

Rhode Island Hospital, Providence, RI

2019 Single Isocentric VMAT SRS technique for multiple brain metastases

Rhode Island Hospital, Providence, RI

Teaching Responsibilities

2008 – 2009 Coordinator and lecturer,

Radiation Oncology weekly Journal Club

Tufts Medical Center, Boston, MA Frequency: 1-2 hours weekly

Audience: 7-10 Residents and Medical Students

2008 – 2009 Coordinator and lecturer,

Radiation oncology resident clinical teaching

Tufts Medical Center, Boston, MA Tufts Medical Center, Boston, MA

Frequency: 4 hours weekly

Audience: 7-10 Residents and Medical Students

2008 – 2009 Coordinator,

Radiation Oncology Grand Rounds Tufts Medical Center, Boston, MA

Frequency: 1 hour weekly

Audience: 10-15 Attendings, Residents, and Medical Students

May 18-21, 2012 Lecturer,

Gamma Knife Training Course

San Juan, Puerto Rico

Duration: 3 Days; 8 hours per day

Audience: 15 Attending Neurosurgeons and 7 Neurosurgery Residents

2010 - 2011 Mentor,

2013 – 2014 Medical Student Longitudinal Clerkship 2016 – 2017 Brown University, RIH, Providence, RI

2010 – 2015 Associate Director

Radiation Oncology Residency Program Tufts Medical Center and Affiliated Hospitals

May 2012 Moderator,

March 2015 Morning Report for Hem/Onc Fellows

2016 Lung Cancer
Duration: 1 hour

Audience: 8-10 Hem Onc Fellows Brown University, RIH, Providence, RI

2013 – 2015 Lecturer,

PHY552: Radiation Biology for Medical Physics Graduate Students

University of Rhode Island, Providence, RI

Frequency: 2 hour/year

Audience: 5 Graduate Students

Feb. 7-8, 2014 Lecturer and Panelist,

American Brachytherapy Society

Quality Management Brachytherapy School 2014

Orlando, FL

Audience: 100

April 3-5, 2014 Lecturer, Discussant, Moderator

American Brachytherapy Society (ABS)

Annual Meeting 2014

San Diego, CA Audience: 500

Sept 2014 – March 2015 Mentor

Doctoring Course – Year 2

Brown University, Providence, RI Duration: ½ day/week for 10 weeks Audience: 1 Second year medical student

Sept 2015 – March 2016 Mentor

Doctoring Course – Year 1

Brown University, Providence, RI Duration: ½ day/week for 10 weeks Audience: 1 first year medical student

2010 – Present Lecturer,

Radiation Oncology Teaching Rounds Rhode Island Hospital, Providence, RI Frequency: 1 hour, twice weekly

Audience: 15-20 Attendings, Residents, and Medical Students

2011 – 2017 Director and Mentor,

Medical Student Elective Clerkship in Radiation Oncology

Duration: 2-4 week elective

Brown University, RIH, Providence, RI

2017 – Present Mentor,

Medical Student Elective Clerkship in Radiation Oncology

Duration: 2-4 week elective

Brown University, RIH, Providence, RI

2012 – Present Coordinator and Educator,

Resident/Fellow Elective in Radiation Oncology

(Hem/Onc Fellows, Breast Surgery Fellows, Neurosurgery Residents)

Duration: 2-4 week elective

Brown University, RIH, Providence, RI

2012 – 2016 Lecturer,

BIOL 3672 IMS-IV:

Hematology/Oncology Course for 2nd year medical students

Brown University, Providence, RI

Frequency: 1 hour/year

Audience: 100 Medical Students

2012 – Present Educator,

Experience in Rad Onc as part of Hem/Onc elective for Internal

Medicine Residents Duration: ½ day

Brown University, RIH, Providence, RI

2015 – Present Director of Academic Affairs

Radiation Oncology Residency Program Tufts Medical Center and Affiliated Hospitals

Professional Societies

American Medical Association (AMA)
American College of Physicians (ACP)
American College of Radiology (ACR)
Association for Directors of Radiation Oncology Program (ADROP)
American Society for Therapeutic Radiology and Oncology (ASTRO)
American Brachytherapy Society (ABS)
Massachusetts Medical Society (MMS)
American Society of Clinical Oncology (ASCO)
American College of Radiation Oncology (ACRO)

Publications

Original peer-reviewed publications:

- 1. <u>Hepel JT</u>, Bruckenstein S, and Hepel M. Effect of pH on Ion Dynamics in Composite PPy/Heparin Films. *Microchemical Journal*, 1997; 55: 179-191.
- 2. Tabel GM, <u>Hepel JT</u>, Whittaker P, Palal B, and Chandraratna PA. Hypoechoic Areas on Ultrasound Images of Atheroma Are Not Always Diagnostic of Fatty Plaque. *Ultrasound in Medicine and Biology*, 2005; 31(8): 1013-15.
- 3. <u>Hepel JT</u>, Syed AM, Puthawala A, Sharma A, and Frankel P. Salvage High-Dose-Rate (HDR) Brachytherapy for Recurrent Head and Neck Cancer. *International Journal of Radiation Oncology, Biology, and Physics* 2005; 62(5); 1444-50.
- 4. MacAusland SG, <u>Hepel JT</u>, Chong FK, Galper SL, Gass JS, Ruthazer R, Wazer DE. An Attempt to Independently Verify the Utility of the Van Nuys Prognostic Index for Ductal Carcinoma In Situ. *Cancer*, 2007; 110(12):2648-53.
- 5. Hiatt JR, Cardarelli GA, <u>Hepel JT</u>, Wazer DE, and Sternick, ES. A Commissioning Procedure for Breast Intracavitary Electronic Brachytherapy Systems. *Journal of Applied Clinical Medical Physics* 2008; 9(3):2775.
- 6. <u>Hepel JT</u>, MacAusland SG, Long JP, Wazer DE, and DiPetrillo T. Intensity-Modulated Radiotherapy of the Prostate after Cryotherapy: Initial Experience. *Urology*, 2008; 72(6):1310-4.

- 7. Chu JCH, Gong X, Cai C, Kirk M, Zusag T, Shott S, Rivard M, Melhus C, Cardarelli G, Hurley A, <u>Hepel JT</u>, Napoli J, and Abrams R. Application of Holographic Display in Radiotherapy Treatment Planning: a Multi-Institutional Study. *Journal of Applied Clinical Medical Physics* 2009; 10(3):2902.
- 8. <u>Hepel JT</u>, Evans SB, Hiatt JR, Price LL, DiPetrillo T, Wazer DE, and MacAusland SG. Planning the Breast Boost: A Comparison of Three Techniques and Evolution of the Tumor Bed During Treatment. *International Journal of Radiation Oncology, Biology, and Physics* 2009; 74(2):458-463.
- 9. <u>Hepel JT</u>, Tokita M, MacAusland SG, Evans SB, Hiatt JR, Price LL, DiPetrillo T, Wazer DE. Toxicity of Three-Dimensional Conformal Radiotherapy for Accelerated Partial Breast Irradiation. *International Journal of Radiation Oncology, Biology, and Physics* 2009; 75(5):1290-1296.
- 10. <u>Hepel JT</u>, Hiatt JR, Cardarelli GA, and Wazer DE. Modeling Study for Optimization of Skin Dose for Partial Breast Irradiation Using Xoft Axxent Electronic Brachytherapy Applicator. *Brachytherapy* 2010; 9(1):81-5.
- 11. Paul Rava P, Dvorak T, Markelewicz RJ, Hiatt JR, Sternick ES, MacAusland SG, Huber K, Wazer DE, <u>Hepel JT</u>. A comparison of the biological effective dose (BED) of 50 kV electronic brachytherapy to iridium-192 high-dose-rate brachytherapy for vaginal cuff irradiation. *Brachytherapy* 2012; 11(5):402-7.
- 12. Leonard KL, Solomon D, <u>Hepel JT</u>, Hiatt JR, Wazer DE, Dipetrillo TA. Axillary lymph node dose with tangential whole breast radiation in the prone versus supine position: A dosimetric study. *Radiation Oncology* 2012 May 18;7(1):72.
- 13. Leonard KL, <u>Hepel JT</u>, Hiatt JR, Dipetrillo TA, Price LL, Wazer DE. The Effect of Dose-Volume Parameters and Interfraction Interval on Cosmetic Outcome and Toxicity After 3-Dimensional Conformal Accelerated Partial Breast Irradiation. *International Journal of Radiation Oncology, Biology, and Physics* 2013; 85(3):623-9.
- 14. <u>Hepel JT</u>, Peter J, Hiatt JR, Patel S, Osibanjo O, Safran H, Curran B and DiPetrillo T. Dosimetric feasibility of dose escalation using SBRT boost for stage III non-small cell lung cancer. *Frontiers in Oncology* 2012; **2**:124.
- 15. <u>Hepel, JT</u> and Wazer, DE. A Comparison of Brachytherapy Techniques for Partial Breast Irradiation. *Brachytherapy*, 2012;11(3):163-75.
- 16. P Rava, KL Leonard, S Sioshansi, B Curran, DE Wazer, R Cosgrove, G Noren, and <u>JT Hepel</u>. Survival among Patients with Greater than 10 Brain Metastases Treated with Stereotactic Radiosurgery. *Journal of Neurosurgery* 2013 Aug; 119(2):457-62.
- 17. AR Crawford, L Dworkin, KL Leonard, H Khurshid, and <u>JT Hepel.</u> Recurrence of paraneoplastic membranous glomerulonephritis following chemoradiation in a man with non-small-cell lung carcinoma. *Rare Tumors* 2013 May 6; 5(2):62-4.

- 18. Stewart AJ, <u>Hepel JT</u>, O'Farrell DA, Devlin PM, Price LL, Dale RG, and Wazer DE. Equivalent uniform dose for accelerated partial breast irradiation using the MammoSite applicator. *Radiotherapy and Oncology* 2013, Aug;108(2):232-5.
- 19. Leonard KL, <u>Hepel JT</u>, Styczynski JR, Hiatt JR, Dipetrillo TA, and Wazer DE. Breast boost using noninvasive image-guided breast brachytherapy vs. external beam: a 2:1 matched-pair analysis. *Clinical Breast Cancer* 2013 Dec;13(6):455-9.
- 20. Rava P, Sioshansi S, DiPetrillo TA, Cosgrove GR, Melhus C, Wu J, Mignano J, Wazer DE, and Hepel JT. Local recurrence and survival following stereotactic radiosurgery for brain metastases from small-cell lung cancer practical radiation oncology. *Practical Radiation Oncology* 2015 Jan-Feb;5(1):e37-44.
- 21. <u>Hepel JT</u>, Hiatt JR, Sha S, Leonard KL, Graves TA, Wiggins DL, Mastras D, Pittier A, Brown University Oncology Research Group, and Wazer DE. The Rationale, Technique, and Feasibility of Partial Breast Irradiation Using Non-invasive Image-guided Breast Brachytherapy (NIBB). *Brachytherapy* 2014, Sep-Oct;13(5):493-501.
- 22. <u>Hepel JT</u>, Leonard KL, Hiatt JR, DiPetrillo TA, Wazer DE. Factors influencing eligibility for breast boost using noninvasive image-guided breast brachytherapy. *Brachytherapy*. 2014 Nov-Dec;13(6):579-83.
- 23. Aghion DM, Capek S, Howe BM, <u>Hepel JT</u>, Sambandam S, Oyelese AA, Spinner RJ. Perineural tumor spread of bladder cancer causing lumbosacral plexopathy: An anatomic explanation. *Acta Neurochirurgica* 2014 Dec;156(12):2331-6.
- 24. Leonard KL, Rivard MJ, Wazer DE, Hiatt JR, DiPetrillo TA, Sioshansi S, and <u>Hepel JT.</u> Prescription dose evaluation for APBI with noninvasive image-guided breast brachytherapy using equivalent uniform dose. *Brachytherapy* 2015 Jul-Aug;14(4):496-501.
- 25. Rivard MJ, Ghadyani HR, Bastien AD, Lutz NN, and <u>Hepel JT.</u> Multi-axis dose accumulation of noninvasive image-guided breast brachytherapy through biomechanical modeling of tissue deformation using the finite element method. *Journal of Contemporary Brachytherapy* 2015 Feb;7(1):55-71.
- 26. Gorovets D, Rava P, Ebner KD, Tybor DJ, Cielo D, Puthawala Y, Kinsells TJ, DiPetrillo TA, Wazer DE, and <u>Hepel JT</u>. Predictors for long-term survival free from whole brain radiation therapy in patients treated with radiosurgery for limited brain metastases. *Frontiers in Oncology* 2015, May 11;5:110.
- 27. Ebner D, Rava P, Gorovets D, Cielo D, and <u>Hepel JT</u>. Stereotactic Radiosurgery for Large Brain Metastases. *Journal of Clinical Neuroscience* 2015 Oct;22(10):1650-4.
- 28. Rava P, Rosenberg J, Jamorabo D, Sioshansi S, FitzGerald T, DiPetrillo T, Wazer DE, and <u>Hepel JT</u>. Feasibility and Safety of Cavity-Directed Stereotactic Radiosurgery for Brain Metastases. *Advances in Radiation Oncology* 2016 July-Sept; 1(3):141-147.
- 29. Rae A, Gorovets D, Rava P, Ebner D, Cielo MDD, Kinsella TJ, DiPetrillo TA, and Hepel

- <u>JT.</u> Management approach for recurrent brain metastases following upfront radiosurgery may affect risk of subsequent radiation necrosis. *Advances in Radiation Oncology*, 2016. 1(4):294-299.
- 30. <u>Hepel JT</u>, Leonard KL, Safran H, Ng T, Taber A, Khurshid H, Birnbaum A, BrUOG, Wazer DE and DiPetrillo T. SBRT Boost Following Concurrent Chemoradiation for Locally Advanced NSCLC: A Phase I Dose-escalation Study. *International Journal of Radiation Oncology, Biology, and Physics*, 2016 Dec 1;96(5):1021-1027.
- 31. Schuster J, Chipko C, Kasper M, Sha S, Ciuba D, Petrikas J, Kuruvilla A, Sandrapaty R, Quiet C, Anderson C, Benda R, Wazer D, <u>Hepel J</u>, Arthur D. Updated feasibility and reproducibility results of multi-institutional study of noninvasive breast tumor bed boost. *Brachytherapy*. 2016 Oct 6. S1538-4721(16)30547-5.
- 32. Daniel Gorovets, Diandra Ayala-Peacock, David J. Tybor, Paul Rava, Daniel Ebner, Deus Cielo, Georg Norén, David E. Wazer, Michael Chan, and <u>Jaroslaw T. Hepel.</u> Multi-institutional Nomogram Predicting Survival Free From Salvage Whole Brain Radiation After Radiosurgery in Patients With Brain Metastases. *International Journal of Radiation Oncology, Biology, and Physics*, 2017 Feb 1;97(2):246-253.
- 33. Ebner D, Gorovets D, Rava P, Cielo D, Kinsella TJ, DiPetrillo TA, and <u>Hepel JT.</u>
 Patients with long-term control of systemic disease are a favorable prognostic group for treatment of brain metastases with SRS alone. *World Neurosurgery*, 2016 Nov 9. S1878-8750(16)31154-8.
- 34. <u>Hepel JT</u>, Heron DE, Mundt AJ, Yashar C, Feigenberg S, Koltis G, Regine WF, Prasad D, Patel P, Sharma N, Hebert M, Wallis N, and Kuettel M. Comparison of On-Site verses On-Line Chart Reviews as Part of the American College of Radiation Oncology (ACRO) Accreditation Program. *Journal of Oncology Practice* 2017 May;13(5):e516-e521.
- 35. Herrington JD, Knutson N, Schmidt M, Brindle JM, Leonard KL, <u>Hepel JT</u>, and Price MJ. Equivalence of Cyberknife and TrueBeam STx for Spine Irradiation. *Medical Dosimetry*. Submitted
- 36. Koffer P, Chan J, Rava P, Gorovets D, Ebner D, Savir G, Cielo D, and <u>Hepel JT</u>. Repeat Stereotactic Radiosurgery for Locally Recurrent Brain Metastasis. *World Neurosurgery* 2017 Aug;104:589-593.
- 37. Abrams MJ, Koffer PP, Wazer DE, and <u>Hepel JT</u>. Post Mastectomy Radiotherapy Improves Survival in Male Breast Cancer. *International Journal of Radiation Oncology, Biology, and Physics*, 2017 Jun 1;98(2):384-391.
- 38. Fridley JS, <u>Hepel JT</u>, Oyelese AA. Current Treatment of Metastatic Spine Tumors Surgery and Stereotactic Radiosurgery. *R I Med J* (2013). 2017 Jun 1;100(6):18-20.
- 39. Ayala-Peacock DN, Attia A, Braunstein SE, Ahluwalia MS, <u>Hepel JT</u>, Chung C, Contessa J, Peiffer AM, Lucas JT, Isom S, Pajewski NM, Kotecha R, Stavas M, Ebner D, Taylor R, Onyeuku NE, Chao ST, Corso C, Ruiz J, Watabe K, Tatter SB, Zadeh G, Chiang VLS, Sneed PK, Fiveash JB, and Chan MD. Prediction of new brain metastases

- after Radiosurgery: Validation and analysis of performance of a multi-institutional nomogram. *Journal of Neruooncology* 2017 Nov;135(2):403-411.
- 40. Yu E, Huang D, Leonard KL, DiPetrillo T, Wazer DE, and <u>Hepel JT.</u> Analysis of Outcomes using Hypofractionated Tumor Bed Boost Combined with Hypofractionated Whole Breast Irradiation for Early Stage Breast Cancer. *Clinical Breast Cancer* 2017 May 25. pii: S1526-8209(17)30115-5.
- 41. McTyre E, Ayala-Peacock D, Contessa J, Corso C, Chiang V, Chung C, Fiveash J, Ahluwalia M, Kotecha R, Chao S, Attia A, Henson A, Hepel J, Braunstein S, Chan M Multi-Institutional Competing Risks Analysis of Distant Brain Failure and Salvage Patterns after Upfront Radiosurgery without Whole Brain Radiotherapy for Brain Metastasis. *Ann Oncol.* 2018 Feb 1;29(2):497-503.
- 42. Shah C, Vicini F, Shaitelman SF, <u>Hepel J</u>, Keisch M, Arthur D, Khan AJ, Kuske R, Patel R, Wazer DE. The American Brachytherapy Society consensus statement for accelerated partial-breast irradiation. *Brachytherapy* 2018 Jan Feb;17(1):154-170.
- 43. <u>Hepel JT</u>, Arthur D, Shaitelman S, Polgár C, Todor D, Zoberi I, Kamrava M, Major T, Yashar C, and Wazer DE. American Brachytherapy Society Consensus Report for Accelerated Partial Breast Irradiation Using Interstitial Multicatheter Brachytherapy. *Brachytherapy* 2017 Sep Oct;16(5):919-928.
- 44. Nihaal Mehta, Peter J. Zavitsanos, Krisztina Moldovan, Adetokunbo Oyelese, Jared S. Fridley, Ziya Gokaslan, Timothy J. Kinsella, and <u>Jaroslaw T. Hepel</u>. Local Failure and Vertebral Body Fracture Risk using Multi-fraction SBRT for Spine Metastases. *Advances in Radiation Oncology* 2018. In press.
- 45. <u>Jaroslaw T. Hepel</u>, Catheryn Yashar, Kara L. Leonard, John P. Einck, Sandra Sha, Thomas DiPetrillo, Doreen Wiggins, Theresa A. Graves, David Edmonson, BrUOG, and David E. Wazer. Five Fraction Accelerated Partial Breast Irradiation (APBI) Using Non-invasive Image-guided Breast Brachytherapy (NIBB): Feasibility and Acute. *Brachytherapy* 2018. In press.
- 46. Zavitsanos PJ, Wazer DE, <u>Hepel JT</u>, Wang Y, Singh K, and Leonard KL. BRCA1 Mutations Associated with Increased Risk of Brain Metastases in Breast Cancer. *Amer. J. of Clin. Onc.* 2018. In press.
- 47. Hughes RT, Masters AH, McTyre ER, Farris MK, Chung C, Page BR, Kleinberg LR, Hepel J, Contessa JN, Chiang V, Ruiz J, Watabe K, Su J, Fiveash JB, Braunstein S, Chao S, Attia A, Ayala-Peacock DN, Chan MD. Initial SRS for patients with 5-15 brain metastases: results of a multi-institutional experience. Int J Radiat Oncol Biol Phys. 2019 Apr 5. pii: S0360-3016(19)30613-3.
- 48. Tom MC, <u>Hepel JT</u>, Patel R, Kamrava M, Badiyan SN, Cohen GN, Shah C. The American Brachytherapy Society consensus statement for electronic brachytherapy. Brachytherapy. 2018 Nov 26. pii: S1538-4721(18)30673-1. [Epub ahead of print]

- 49. Foster B, Sindhu K, <u>Hepel J</u>, Wazer D, Graves T, Taneja C, Wiggins D, Leonard K. Three-Dimensional Bioabsorbable Tissue Marker Placement is Associated with Decreased Tumor Bed Volume Among Patients Receiving Radiation Therapy for Breast Cancer. Pract Radiat Oncol. 2019 Mar;9(2):e134-e141.
- 50. Sean A. Roles, <u>Jaroslaw Hepel</u>, Kara L. Leonard, David E. Wazer, Gene A. Cardarelli, Michelle L. Schwer, Ziad H. Saleh, Eric E. Klein, James M. Brindle, Mark J. Rivard. Programmatic Improvements to the Workflow Associated with the AccuBoost Breast Brachytherapy Procedure. *Brachytherapy* 2019. Submitted.
- 51. Nack E, Koffer P, Blumberg C, Leonard KL, Huber KE, Fenton MA, Dizon DS, Wazer DE, and <u>Hepel JT</u>. New Cardiac Abnormalities Following Radiation Therapy in Breast Cancer Patients Treated with Trastuzumab. *Clinical Breast Cancer* 2019. Submitted.

Invited Reviews and Editorials (peer-reviewed publications):

- 1. <u>Hepel JT</u> and Wazer DE. Should a woman age 70 to 80 years receive radiation after breast-conserving surgery? *Journal of Clinical Oncology*, 2013; 31(19):2377-81.
- 2. <u>Hepel, JT.</u> Late Toxicity and Cosmetic Outcomes Related to Interstitial Multi-catheter Brachytherapy for Partial Breast Irradiation. *Brachytherapy*, 2014; 13(1):23-26.
- 3. <u>Hepel JT</u> and Wazer DE. A flawed study should not define a new standard of care. *International Journal of Radiation Oncology, Biology, and Physics* 2015 Feb 1;91(2):255-7.

Letters to the Editor (peer-reviewed publications):

1. Wazer DE, <u>Hepel JT</u>, Riker AI, Harris JK, Chung C, Khan AJ, Offersen BV, Poortmans P, and Taghian A. Neither Pride nor Prejudice: A focus on the science. *International Journal of Radiation Oncology, Biology, and Physics* 2015 Aug 1;92(5):952-3.

Other Reviews and Commentaries:

- 1. <u>Hepel JT</u> and DiPetrillo T. Beyond the Abstract Intensity-Modulated Radiotherapy of the Prostate After Cryotherapy: Initial Experience. UroToday.com (On-line Publication), July 1, 2008.
- 2. Rivard MJ, Ghadyani HR, Bastien AD, Lutz NN, and <u>Hepel JT</u>. Multi-axis dose accumulation of noninvasive image-guided breast brachytherapy through biomechanical modeling of tissue deformation using the finite element method. Editor's Picks: Brachytherapy, *European Society for Radiotherapy and Oncology (ESTRO) Newsletter* 2015 Nov-Dec;40-42.

Abstracts:

1. Chu JCH, Gong X, Kirk M, Khan A, Rivard M, Melhus C, Buscher M, Cardarelli G, Hurley A, <u>Hepel JT</u>, et al. Holographic Image Guided Radiation Therapy (HIGRT)

- Treatment Planning: a Multi-Institutional Study. (ASTRO Abstract) *Int J Rad Onc Bio Phy*, 2006; 66(3); S664-5.
- 2. Chu J, Gong X, Cai C, Zusag T, Shott S, Rivard M, Melhus C, Cardarelli G, Hurley A, and <u>Hepel JT</u>. Multi-Institutional Randomized Study to Evaluate a Holographic Display Device for Treatment Planning (ASTRO Abstract). *Int J Rad Onc Bio Phy*, 2007; 69(3):S698-S698.
- 3. <u>Hepel JT</u>, MacAusland SG, Long JP, Wazer DE, and DiPetrillo T.IMRT Irradiation of the Prostate Following Cryotherapy: Analysis of Late Toxicity (ASTRO Abstract). *Int J Rad Onc Bio Phy*, 2007; 69(3):S364-S365.
- 4. J. Hiatt, <u>J. Hepel</u>, M. Carol, G. Cardarelli, D. Wazer, and E. Sternick. Physical Principles of Intensity Modulated Electronic Brachytherapy (IMEB). *Medical Physics* 01/2008; 35(6).
- 5. Hiatt JR, <u>Hepel JT</u>, Cardarelli GA, Carol M, Sternick ES, and Wazer DE. Depth Dose Modulation (DDM) for Electronic Brachytherapy (ABS Abstract). *Brachytherapy*, 2008; 7(2):106-107.
- 6. Sioshansi S, Hiatt JR, Rivard MJ, <u>Hepel JT</u>, Cardarelli GA, O'Leary S, and Wazer DE. Three-dimensional Dose Modeling of the AccuBoost Mammography-based Image Guided Non-invasive Breast Brachytherapy System for Partial Breast Irradiation. (ASTRO Abstract). *Int J Rad Onc Bio Phy*, 2008; 72(1):S516-7.
- 7. Hiatt JR, <u>Hepel JT</u>, Carol M, Cardarelli G, Wazer DE, and Sternick ES. Physical Principles of Intensity Modulated Electronic Brachytherapy (IMEB) (ASTRO Abstract). *Int J Rad Onc Bio Phy*, 2008; 72(1):S528.
- 8. Cardarelli G, Hiatt J, Curran B, Segala J, Sternick E, Markelewicz R, Hepel JT, Puthawala Y, Shioshiansi S, Wazer DE. SU-FF-T-50: Clinical Implementation of New Endometrial Cylinder Applicator for Electronic Brachytherapy. *Medical Physics* 2009; 36(6).
- 9. Stewart AJ, <u>Hepel JT</u>, Devlin PM, O'Farrell DA, Dale RG, and Wazer DE. Does equivalent uniform dose affect toxicity for high dose rate brachytherapy using the Mammosite applicator? (ABS Abstract). *Brachytherapy* 2009; 8(2):138.
- 10. Markelewicz RJ, Hiatt JR, <u>Hepel JT</u>, Cardarelli GA, Sternick ES, Wazer DE, MacAusland SG. A comparison of the biological effective dose of 50 kV electronic brachytherapy to ¹⁹²Ir high-dose-rate brachytherapy for vaginal cuff irradiation (ABS Abstract). *Brachytherapy* 2009; 8(2):126-7.
- 11. Sioshansi S, Hiatt JR, Rivard MJ, Hurley AA, Lee Y, <u>Hepel JT</u>, Cardarelli GA, O'Leary S, and Wazer DE. A dosimetric comparison of AccuBoost® noninvasive partial breast brachytherapy to electron beam tumor bed boost and 3-D conformal accelerated partial breast irradiation (ABS Abstract). *Brachytherapy* 2009; 8(2):117.

- 12. Lee S, <u>Hepel TJ</u>, Mayo-Smith W, Curran, B, Sio T, Jang S, and Sternick E. A Phantom Study of 4D-SBRT Lung Treatment with Cyberknife Using Novel Fiducial Markers (AAPM Abstract). *Medical Physics* 2011; 38 (6): 3605.
- 13. K.L. Leonard, <u>J.T. Hepel</u>, J.R. Hiatt, L.L. Price, T.A. DiPetrillo, D.E. Wazer. Updated Toxicity Results of Three-dimensional Conformal Accelerated Partial Breast Irradiation. *Int J Rad Onc Bio Phy*, 2011; 81(2):S7-8.
- 14. Rava P, Leonard K, Sioshansi S, DiPetrillo T, Noren G, Wazer DE, <u>Hepel JT</u>. Survival and CNS Control in Patients with Small Cell Lung Cancer who Undergo Salvage Radiosurgery. *The Proceedings of ACRO* 2012.
- 15. Rava P, Leonard K, Sioshansi S, DiPetrillo T, Noren G, Wazer DE, <u>Hepel JT</u>. Survival Among Patients with Greater than 10 Brain Metastases Treated with Stereotactic Radiosurgery. *J Neuro Surg* 2012; supplement.
- 16. K.L. Leonard, D.E. Wazer, M.J. Rivard, J.R. Hiatt, C.S. Melhus, and <u>J.T. Hepel.</u> Prescription dose evaluation for APBI with non-invasive breast brachytherapy using equivalent uniform dose. *Radiotherapy and Oncology* 2012; 103(2S): S125-126.
- 17. Leonard KL, Wazer DE, Styczynski JR, DiPetrillo T, <u>Hepel JT.</u> Breast Boost Using Noninvasive Image-Guided Breast Brachytherapy vs. En Face Electrons: A Matched Pair Analysis. *Int J Rad Onc Bio Phy*, 2012; 84(3S): S226.
- 18. Ebeling III R, Hiatt JR, Oyelese A, Goldman M, Curran B, DiPetrillo T, Kinsella T, Hepel JT. Dosimetric Accuracy of Ray-Tracing Algorithm for Treatment of Thoracic Spine Lesions Using Robotic Radiosurgery. *Int J Rad Onc Bio Phy*, 2012; 84(3S): S280.
- 19. Rava P, Leonard K, Sioshansi S, DiPetrillo T, Melhus CS, Curran B, Wu JC, Cosgrove R, Noren G, <u>Hepel JT.</u> Stereotactic Radiosurgery as Salvage for Brain Metastases from Small-cell Lung Cancer. *Int J Rad Onc Bio Phy*, 2012; 84(3S): S293.
- 20. Rava P, Leonard K, Sioshansi S, DiPetrillo T, Melhus CS, Curran B, Wu JC, Cosgrove R, Noren G, <u>Hepel JT</u>. Associating Risk with Survival and Brain Recurrence in Patients with Non-Small Cell Lung Cancer Treated Aggressively for Synchronous Brain Metastases. *Int J Rad Onc Bio Phy*, 2012; 84(3S): S293-4.
- 21. IB Mihaylov, CJ Tien, and <u>JT Hepel</u>. Dosimetric Effect of Patient Arm Position in Spinal CyberKnife Robotic Radiosurgery. *Medical Physics* 01/2013; 40(6):306.
- 22. <u>JT Hepel</u>, JR Hiatt, S Sha, KL Leonard, TA Graves, BrUOG, and DE Wazer. Accelerated Partial Breast Irradiation using Non-invasive Image-guided Breast Brachytherapy (NIBB): Feasibility and Early Experience. *Brachytherapy* 2013; 12(2): S16.
- 23. JR Hiatt, PS Rava, KL Leonard, DE Wazer, and <u>JT Hepel</u>. Chest wall dose assessment in patients treated using non-invasive image-guided breast brachytherapy APBI. *Brachytherapy* 2013; 12(2): S47.

- 24. KL Leonard, <u>JT Hepel</u>, JR Styczynski, TA DiPetrillo, and DE Wazer. Breast Boost Using Non-invasive Image-Guided Breast Brachytherapy vs. *En Face* Electrons: A 2:1 Matched Pair Analysis. *Brachytherapy* 2013; 12(2): S45-6.
- 25. Mihaylov IB and <u>Hepel JT</u>. Treatment Planning Approaches to Minimizing Risk of Radionecrosis in Robotic Radiosurgery for Brain Metastases. *The Proceedings of ACRO* 2013; 14.
- 26. JC Rosenberg, P Rava, TA DiPetrillo, I Mihaylov, D Cielo, R Cosgrove, and <u>JT Hepel</u>. Factors Influencing Local Control and Survival in Patients Treated with Radiosurgery Following Surgical Resection of CNS Metastases. *Int J Rad Onc Bio Phy*, 2013; 87(2S): S161.
- 27. G Savir, P Rava, C Tien, JR Hiatt, T Kinsella, TA DiPetrillo, DE Wazer and <u>JT Hepel</u>. Experience Using Fractionated Stereotactic Radiosurgery to Treat Large CNS Metastases. *Int J Rad Onc Bio Phy*, 2013; 87(2S): S283.
- 28. Schuster JM, Chipko C, Saraiya S, Hamid S, Sha S, Jolly M, Benda R, Kuruvilla A, Ackerman S, <u>Hepel JT</u>, Snyder M, Kuske RR, Wazer DE, Quiet C, Mukhopadhyay N, and Arthur D. Update on a Multi-Institutional Study of Noninvasive Breast Brachytherapy for Tumor Bed Boost: Cosmesis and Tumor Control. *Brachytherapy* 2014; 13(S1), S19.
- 29. <u>JT Hepel</u>, KL Leonard, JR Hiatt, TA DiPetrillo, and DE Wazer. Factors Influencing Eligibility for Breast Boost Using Non-invasive Image-Guided Breast Brachytherapy (NIBB). *Brachytherapy* 2014; 13(S1), S81-2.
- 30. Gorovets D, Ebner D, Rava P, Tybor DJ, Cielo D, Puthawala MY, Kinsella TJ,. DiPetrillo TA, David E. Wazer DE, and <u>Hepel JT</u>. Improving patient selection for stereotactic radiosurgery as the initial radiotherapy approach for brain metastases. *Int J Rad Onc Bio Phy*, 2014; 90(1S): S320.
- 31. Chan J, Zhung J, Rava P, Ebner D, Savir G, Cielo D, and <u>Hepel JT</u>. Re-treatment of Brain Metastases using Stereotactic Radiosurgery. *Int J Rad Onc Bio Phy*, 2014; 90(1S): S323-4.
- 32. Savir G, Ebner D, Chan J, Rava P, Cielo D, Kinsella TJ, DiPetrillo T, Wazer DE, and Hepel JT. Comparison of Fractionated Stereotactic Radiosurgery and Single-Fraction Stereotactic Radiosurgery for the Treatment of Brain Metastases. *Int J Rad Onc Bio Phy*, 2014; 90(1S): S319-20.
- 33. <u>Hepel JT</u>, Leonard KL, Sha S, Hiatt JR, Graves TA, Wiggins DL, Mastras D, Pittier A, Brown University Oncology Research Group, and Wazer DE. Non-invasive Imageguided Breast Brachytherapy (NIBB) to Deliver Accelerated Partial Breast Irradiation (APBI): Analysis of Acute Toxicity and Early Outcomes. *Int J Rad Onc Bio Phy*, 2014; 90(1S): S136.

- 34. Zhung J, DiPetrillo TA, Wazer D, Hepel JT, Price L, and Leonard KL. Patterns of Regional Failure and Evaluation of LN Dose in Early-Stage NSCLC Treated With SBRT. *Int J Rad Onc Bio Phy* 2014; 90(1):S629.
- 35. Zhung J, DiPetrillo TA, Wazer D, Hepel JT, Price L, and Leonard KL. Evaluation of Interfraction Changes in Tumor Volume to Predict Long-Term Outcomes of SBRT in Early-Stage NSCLC. *Int J Rad Onc Bio Phy* 2014; 90(1):S902.
- 36. Cao Y, Gorovets D, Baird GL, Puthawala M, <u>Hepel J</u>, DiPetrillo T, and Dupuy DE. Treatment of large malignancies with image-guided thermal ablation and external beam radiation: evaluation of safety and effectiveness *Journal of Vascular and Interventional Radiology* 2015; 26(2):S125-S126.
- 37. Cho H, <u>Hepel J</u>, and Brindle J. SU-E-T-397: Evaluation of Planned Dose Distributions by Monte Carlo (0.5%) and Ray Tracing Algorithm for the Spinal Tumors with CyberKnife. *Med Phys.* 2015 Jun;42(6):3425.
- 38. Rivard MJ, Ghadyani HR, Bastien AD, Lutz NN, and <u>Hepel JT.</u> SU-E-J-96: Multi-Axis Dose Accumulation of Noninvasive Image-Guided Breast Brachytherapy Through Biomechanical Modeling of Tissue Deformation Using the Finite Element Method. *Med Phys.* 2015 Jun;42(6):3286.
- 39. <u>Hepel JT</u>, Leonard KL, Howard S, Ng T, Taber A, Khurshid H, Birnbaum A, BrUOG, Wazer DE and DiPetrillo T. SBRT Boost Following Concurrent Chemoradiatin for Locally Advanced NSCLCa: Phase I Dose Escalation Study. *Int J Rad Onc Bio Phy*, 2015; 93(3):S86-87.
- 40. Gorovets D, Ayala-Peacock D, Tybor D, Rava P, Ebner D, Chan M, and <u>Hepel JT</u>. Multi-institutional Nomogram Predicting Survival Free From Salvage Whole-Brain Radiation After Radiosurgery for Brain Metastases. *Int J Rad Onc Bio Phy*, 2015; 93(3):E77.
- 41. Ebner D, Gorovets D, Rava P, Cielo D, Kinsella T, DiPetrillo T, and <u>Hepel JT</u>. Patients With Long-term Control of Systemic Disease Are a Favorable Prognostic Group for Treatment of Brain Metastases With SRS Alone. *Int J Rad Onc Bio Phy*, 2015; 93(3):E105.
- 42. Nack E, Koffer P, Blumberg C, Leonard KL, Fenton MA, Wazer DE, and <u>Hepel JT</u>. New Cardiac Abnormalities Following Radiation Therapy in Breast Cancer Patients Treated With Trastuzumab. *Int J Rad Onc Bio Phy*, 2015; 93(3):E23.
- 43. Rae A, Gorovets D, Rava P, Ebner D, Cielo D, and <u>Hepel JT.</u> Management approach for recurrent brain metastases following upfront radiosurgery may affect risk of subsequent radiation necrosis. *Int J Rad Onc Bio Phy*, 2015; 93(3):E78.
- 44. J.M. Schuster, C. Chipko, C.A. Quiet, R.K. Benda, S.J. Sha, A.M. Kuruvilla, C.S. Anderson, K.L. Leonard, D.E. Wazer, <u>J.T. Hepel</u> and D.W. Arthur. Noninvasive Breast Brachytherapy Boost: Cosmesis and Tumor Control. *Int J Rad Onc Bio Phy*, 2015; 93(3):E36.

- 45. <u>J. T. Hepel</u>, A. J. Mundt, C. Yashar, S. Feigenberg, G. Koltis, D. Prasad, D. Heron, S. Patel, W. Regine, N. Sharma, M. Herbert, N. Wallis, and M. Kuettel. Comparison of On-Site versus On-Line Chart Reviews as Part of the ACRO Accreditation Program. *J. of Rad. Onc.*, 2016; 5:116-117.
- 46. <u>J. T. Hepel</u>, K.L. Leonard, S. Sha, T. DiPetrillo, D. Wiggins, T. A. Graves, D. Edmonson, Brown University Oncology Research Group, and D. E. Wazer. Initial Experience of Five Fraction Accelerated Partial Breast Irradiation (APBI) using Non-invasive Image-guided Breast Brachytherapy (NIBB). *Brachytherapy* 2016; 15(3):S45-6.
- 47. K.L. Leonard, E. Nack, DE Wazer, TA DiPetrillo, JR Hiatt, and <u>J. T. Hepel</u>. Early and Late Toxicities of Conventionally Fractionated and Hypofractionated Non-invasive Image-guided Breast Brachytherapy as Tumor Bed Boost. *Brachytherapy* 2016; 15(3):S60.
- 48. P Zavitsanos, DE Wazer, <u>JT Hepel</u>, and KL Leonard. BRCA1 Mutations Associated With Increased Risk of Brain Metastases in Breast Cancer: A 2:1 Matched Pair Analysis. *Int J Rad Onc Bio Phy*, 2016; 96(2) S59-60.
- 49. E Yu, D Huang, KL Leonard, T Dipetrillo, DE Wazer, and <u>JT Hepel</u>. Analysis of Acute and Late Outcomes using Hypofractionated Tumor Bed Boost following Hypofractionated Whole Breast Irradiation for Early Stage Breast Cancer. *Int J Rad Onc Bio Phy*, 2016; 96(2) E33-34.
- 50. Katipally, R., Koffer, P.P., Rava, P.S., Cielo, D., Toms, S.A., DiPetrillo, T.A., and <u>Hepel, J.T.</u> Surgical Resection and Posterior Fossa Location Increase the Incidence of Leptomeningeal Disease in Patients Treated with Stereotactic Radiosurgery for Brain Metastases. *Int J Rad Onc Bio Phy*, 2017; 99(2S): S173.
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- 52. W. Muhlestein, L. B. Chambless, N. M. Pajewski, S. E. Braunstein, <u>J. T. Hepel</u>, C. Chung, J. N. Contessa, S. T. Chao, J. B. Fiveash, A. Attia, M. D. Chan, and D. N. Ayala-Peacock. Using a Novel Machine Learning Technique to Predict Radiation Oncology Outcomes. *Int J Rad Onc Bio Phy*, 2017; 99(2S): E422-E423.
- 53. E. McTyre, M. Farris, D.N. Ayala-Peacock, B.R. Page, C. Shen, L.R. Kleinberg, J.N. Contessa, C. Chung, J. Ruiz, B. Pasche, K. Watabe, J.B. Fiveash, <u>J.T. Hepel</u>, S.T. Chao, S.E. Braunstein, A. Attia, and M.D. Chan. Multi-institutional Validation of Brain Metastasis Velocity, a Recently Defined Predictor of Outcomes Following Stereotactic Radiosurgery. *Int J Rad Onc Bio Phy*, 2017; 99(2S): E93.
- 54. A. Henson, D.N. Ayala-Peacock, C. Chung, <u>J.T. Hepel</u>, S.T. Chao, J.N. Contessa, J.B. Fiveash, A. Attia, et al. DBF 2.0: A Web-Based Predictive Model for Distant Brain

- Failure, Brain Metastasis Velocity, and Early Death After Radiosurgery for Brain Metastases. *Int J Rad Onc Bio Phy*, 2017; 99(2S): E78-E79.
- 55. R. Narayan, M.J. Abrams, J.T. Hepel, D.E. Wazer, K.E. Huber. Formalizing Radiation Oncology Patient Handoff: The GRAY System. *Int J Rad Onc Bio Phy*, 2017; 99(2S): E406-407.
- 56. <u>J. T. Hepel</u>, C. Yashar, K. L. Leonard, J. P. Einck, S. Sha, T. DiPetrillo, D. Wiggins, T. A. Graves, D. Edmonson, BrUOG, and D. E. Wazer. Five Fraction Accelerated Partial Breast Irradiation (APBI) Using Non-invasive Image-guided Breast Brachytherapy (NIBB): Feasibility and Acute Toxicity. *Int J Rad Onc Bio Phy*, 2017; 99(2S): E18.
- 57. N. Mehta, P. J. Zavitsano, A. Oyelese, J. S. Fridley, Z. Gokaslan, T. J. Kinsella, and J. T. Hepel. Local Failure and Vertebral Body Fracture Risk using Multi-fraction SBRT for Spine Metastases. *J. of Rad Onc*, 2018. Accepted.
- 58. P.P. Koffer, E. Yu, T.A. DiPetrillo, D.E. Wazer, <u>J.T. Hepel</u>. Treatment of Brainstem Metastases. *International Journal of Radiation Oncology Biology Physics* 2018, Vol. 102, Issue 3, e348.
- 59. R. Narayan, J.L. Wage, T. Marston, T. Roth, K.L. Leonard, D.E. Wazer, <u>J.T. Hepel</u>, E. Yu. Dosimetric Comparison of Deep Inspiration Breath-Hold versus Free Breathing for Right-Sided Breast Cancer with Comprehensive Nodal Radiation. *International Journal of Radiation Oncology Biology Physics* 2018, Vol. 102, Issue 3, e612.
- 60. <u>J.T. Hepel</u>, M. Listo, K.L. Leonard, J. Scharfen, C.M. Yashar, J.P. Einck, S.J. Sha Jr., D.G. Mastras, and others. Multi-Institutional Registry Study of Accelerated Partial Breast Irradiation (APBI) Using Non-Invasive Image-Guided Breast Brachytherapy (NIBB). *International Journal of Radiation Oncology Biology Physics* 2018, Vol. 102, Issue 3, e576.
- 61. R.T. Hughes, A.H. Masters, E. McTyre, M. Farris, C. Chung, B.R. Page, L.R. Kleinberg, J.T. Hepel, and others. Initial SRS for Patients with 5-15 Brain Metastases: Results of a Multi-Institutional Experience. *International Journal of Radiation Oncology Biology Physics* 2018, Vol. 102, Issue 3, S141–S142
- 62. M. Soike, E. McTyre, M. Farris, D.N. Ayala-Peacock, <u>J.T. Hepel</u>, B.R. Page, L.R. Kleinberg, J.N. Contessa, and others. Salvage Stereotactic Radiosurgery is Associated with Improved Overall Survival Compared to Whole Brain Radiation in the Setting of Progressive Brain Metastases. *International Journal of Radiation Oncology Biology Physics* 2018, Vol. 102, Issue 3, S144.
- 63. Roles SA, <u>Hepel J</u>, Leonard KL, Wazer DE, Cardarelli GA, Schwer ML, Klein EE, Roth TM, Brindle JM, Rivard MJ. Programmatic improvements to the workflow associated with the AccuBoost breast brachytherapy procedure. Brachytherapy 18(3S1), S47 (2019).
- 64. G Cardarelli, Z Saleh, M Schwer, D Cutright, J Kelley, J Brindle, M Rivard, T Roth, <u>J Hepel</u>, C Liu, E Klein. Effect of Leaf Size and Off-Axis Delivery On Plan Quality for Single Isocenter Multi-Lesion Plans in RayStation. 2019, Accepted.

Book Chapters:

- 1. <u>Jaroslaw T. Hepel, MD</u>, Shirin Sioshansi, MD, Mark Rivard, PhD, and David E. Wazer, MD. "Accelerated Partial Breast Irradiation, 2nd edition." Chapter 24: New Technologies, Part II: Novel sources and delivery systems. Springer, New York, 2009.
- 2. David E. Wazer, MD and <u>Jaroslaw T. Hepel, MD</u>. "Accelerated Partial Breast Irradiation, 2nd edition." Chapter 22: Normal Tissue Toxicity after Accelerated Partial Breast Irradiation. Springer, New York, 2009.
- 3. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2013 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2012.
- 4. <u>Jaroslaw T. Hepel, MD</u> and Timothy J. Kinsella. "Perez and Brady's Principles and Practice of Radiation Oncology, 6th edition." Chapter 82: Osteosarcoma and Other Primary Tumors of Bone. Lippincott, Williams, and Wilkins, Philadelphia, 2013.
- 5. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2014 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2013.
- 6. Robert D. Legare, Done Dizon, Jennifer S. Gass, Trevor Tejada-Berges, Margaret M. Steinhoff, C. James Sung, Susan Koelliker, Hanan I. Khalil, <u>Jaroslaw T. Hepel</u>, William Sikov, and Bachir Sakr. "Principles and Practice of Gynecologic Oncology 6th Edition." Chapter 28: Breast Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2013.
- 7. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2015 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2014.
- 8. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2016 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2015.
- 9. <u>Jaroslaw T. Hepel, MD</u>, David E. Wazer_MD, Frank A. Vicini MD, and Douglas W. Arthur MD. "Brachytherapy." Chapter 12: Intracavitary Breast Brachytherapy. Springer, New York, 2016.
- 10. <u>Jaroslaw T. Hepel, MD.</u> "Short Course Breast Radiotherapy, 3rd edition." Chapter 25: Non-invasive image-guided breast brachytherapy (NIBB). Springer, New York, 2016.
- 11. Done Dizon, David Edmonson, Tina Rizack, Margaret M. Steinhoff, James Sung, Susan Koelliker, Hanan I. Khalil, <u>Jaroslaw T. Hepel</u>, Jennifer S. Gass, Robert Legare, and William Sikov. "Principles and Practice of Gynecologic Oncology 7th Edition." Chapter 28: Breast Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2017. *In press*.

- 12. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2017 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2016.
- 13. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2018 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2017.
- 14. <u>Jaroslaw T. Hepel, MD</u> and Timothy J. Kinsella. "Perez and Brady's Principles and Practice of Radiation Oncology, 7th edition." Chapter: Osteosarcoma and Other Primary Tumors of Bone. Lippincott, Williams, and Wilkins, Philadelphia 2018.
- 15. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2019 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, 2018.
- 16. Jenna M. Kahn, MD and <u>Jaroslaw T. Hepel, MD.</u> "The 5-Minute Clinical Consult, 2020 edition." Chapter: Thymus Cancer. Lippincott, Williams, and Wilkins, Philadelphia, *in press*.

Invited Presentations

Scientific Oral Presentations:

Local June 2, 2004	Internal Medicine Grand Rounds Univ. of California at Irvine Medical Center Salvage High-Dose-Rate (HDR) Brachytherapy for Recurrent Head and Neck Cancer.
National	
Sept. 22, 2008	American Society of Therapeutic Radiation Oncology (ASTRO) 50 th Annual Meeting Boston, MA <i>Toxicity of 3D-CRT for Accelerated Partial Breast Irradiation.</i>
April 17, 2013	American Brachytherapy Society (ABS) Annual Meeting New Orleans, LO Accelerated Partial Breast Irradiation using Non-invasive Imageguided Breast Brachytherapy (NIBB): Feasibility and Early Experience.
Sept. 17, 2014	American Society of Therapeutic Radiation Oncology (ASTRO) 56 th Annual Meeting San Francisco, CA <i>Non-invasive Image-guided Breast Brachytherapy (NIBB) to Deliver</i>

Accelerated Partial Breast Irradiation (APBI): Analysis of Acute Toxicity and Early Outcomes.

Oct. 20, 2015 American Society of Therapeutic Radiation Oncology (ASTRO)

57th Annual Meeting San Antonio, TX

SBRT Boost Following Concurrent Chemoradiatin for Locally

Advanced NSCLCa: Phase I Dose Escalation Study

<u>Internatio</u>nal

June 27, 2016 World Congress of Brachytherapy

San Francisco, CA

Initial Experience of Five Fraction Accelerated Partial Breast

Irradiation using Non-invasive Image-guided Breast

Brachytherapy (NIBB).

Scientific Poster Presentations:

Local	
March 1994	Learning and Research Fair SUNY Potsdam College, Potsdam, NY Interactions of Hydrophilic and Hydrophobic Compounds with Phospholipid Films.
Oct. 27, 2011	19 th Annual Research Celebration Providence, RI Reduced coverage of axillary level I & II lymph nodes with whole breast irradiation in the prone vs. supine position.
Regional	
April 21-22, 1995	49th Annual Eastern Colleges Science Conference (ECSC) Ithaca College, Ithaca, NY <i>Interaction of Hydrophilic and Hydrophobic Biocompounds and Drugs with Phospholipid Films</i> .
April 21-22, 1995	49th Annual Eastern Colleges Science Conference (ECSC) Ithaca College, Ithaca, NY <i>Interaction of Cisplatin with Sulfhydryl Compounds</i> .
Oct. 22-25, 1995	25th Northeast Regional American Chemical Society Meeting Rochester, NY Interaction of Hydrophilic and Hydrophobic Biocompounds and Drugs with Phospholipid Films.
Oct. 22-25, 1995	25th Northeast Regional American Chemical Society Meeting

Medical Applications of Polypyrrole/Heparin Films.

Rochester, NY

National	<u> </u>
May 2001	North American Vascular Biology Organization conference on Atherosclerosis, Thrombosis, and Vascular Biology (ATVB/NAVBO) Washington, DC Shear Stress and Lysophosphatidic Acid Act Synergistically to Activate
	MAP Kinase ERK1/2.
Nov. 5-9, 2006	American Society of Therapeutic Radiation Oncology (ASTRO) 48 th Annual Meeting Philadelphia, PA
	Holographic Image Guided Radiation Therapy (HIGRT) Treatment Planning: a Multi-Institutional Study.
Oct. 28 – Nov. 1, 2007	American Society of Therapeutic Radiation Oncology (ASTRO) 49 th Annual Meeting Los Angeles, CA
	Multi-Institutional Randomized Study to Evaluate a Holographic Display for Radiation Therapy Treatment Planning.
Oct. 28 – Nov. 1, 2007	American Society of Therapeutic Radiation Oncology (ASTRO) 49 th Annual Meeting Los Angeles, CA
	IMRT Irradiation of the Prostate Following Cryotherapy: Analysis of Late Toxicity.
Sept. 20-25, 2008	American Society of Therapeutic Radiation Oncology (ASTRO) 50 th Annual Meeting Boston, MA
	Physical Principles of Intensity Modulated Electronic Brachytherapy (IMEB)
Sept. 20-25, 2008	American Society of Therapeutic Radiation Oncology (ASTRO) 50 th Annual Meeting Boston, MA
	Three-dimensional Dose Modeling of the AccuBoost Mammography-based Image Guided Non-invasive Breast Brachytherapy System for Partial Breast Irradiation
Feb. 23-25, 2012	American College of Radiation Oncology (ACRO) 22 nd Annual Meeting Fort Myers, FL
	Survival and CNS Control in Patients with Small Cell Lung Cancer who Undergo Salvage Radiosurgery.
April 14-18, 2012	American Association of Neurological Surgeons (AANS) 80th Annual Scientific Meeting Miami, FL
	Survival Among Patients with Greater than 10 Brain Metastases Treated with Stereotactic Radiosurgery.

May 10-12, 2012 World Congress of Brachytherapy American Brachytherapy Society (ABS) Barcelona, Spain Prescription dose evaluation for APBI with non-invasive breast brachytherapy using equivalent uniform dose. American Society of Therapeutic Radiation Oncology (ASTRO) Oct. 28 - 31, 2012 52nd Annual Meeting Boston, MA Breast Boost Using Noninvasive Image-Guided Breast Brachytherapy vs. En Face Electrons: A Matched Pair Analysis Oct. 28 - 31, 2012 American Society of Therapeutic Radiation Oncology (ASTRO) 52nd Annual Meeting Boston, MA Dosimetric Accuracy of Ray-Tracing Algorithm for Treatment of Thoracic Spine Lesions Using Robotic Radiosurgery. Oct. 28 - 31, 2012 American Society of Therapeutic Radiation Oncology (ASTRO) 52nd Annual Meeting Boston, MA Stereotactic Radiosurgery as Salvage for Brain Metastases from Small-cell Lung Cancer. American Society of Therapeutic Radiation Oncology (ASTRO) Oct. 28 - 31, 2012 52nd Annual Meeting Boston, MA Associating Risk with Survival and Brain Recurrence in Patients with Non-Small Cell Lung Cancer Treated Aggressively for Synchronous Brain Metastases. Radiologic Society of North America (RSNA) Nov. 25-30, 2012 98th Annual Meeting Chicago, IL Improved Outcomes in Patiens with Synchronous Brain Metastases from Non-Small Cell Lung Cancer Staged with PET-CT Compared to CT Alone. American College of Radiation Oncology (ACRO) Feb. 13-16, 2013 23rd Annual Meeting San Antonio, TX Treatment Planning Approaches to Minimizing Risk of Radionecrosis in Robotic Radiosurgery for Brain Metastases. American Brachytherapy Society (ABS) April 17-20, 2013 Annual Meeting New Orleans, LO

Chest wall dose assessment in patients treated using non-invasive

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American Brachytherapy Society (ABS) April 17-20, 2013 Annual Meeting New Orleans, LO Breast Boost Using Non-invasive Image-Guided Breast Brachytherapy vs. En Face Electrons: A 2:1 Matched Pair Analysis. American Association of Physicists in Medicine (AAPM) Aug. 4-8, 2013 **Annual Meeting** Indianapolis, IN Dosimetric effect of patient arm position in spinal CyberKnife robotic Radiosurgery. American Society of Therapeutic Radiation Oncology (ASTRO) Sept 22-25, 2013 53rd Annual Meeting Atlanta, GA Experience Using Fractionated Stereotactic Radiosurgery to Treat Large CNS Metastases. Sept 22-25, 2013 American Society of Therapeutic Radiation Oncology (ASTRO) 53rd Annual Meeting Atlanta, GA Poster Discussion Factors Influencing Local Control and Survival in Patients Treated with Radiosurgery Following Surgical Resection of CNS Metastases. April 3-5, 2014 American Brachytherapy Society (ABS) Annual Meeting San Diego, CA Poster Discussion Factors Influencing Eligibility for Breast Boost Using Non-invasive Image-Guided Breast Brachytherapy (NIBB) American Society of Therapeutic Radiation Oncology (ASTRO) Sept. 14-17, 2014 56th Annual Meeting San Francisco, CA Improving patient selection for stereotactic radiosurgery as the initial radiotherapy approach for brain metastases. Sept. 14-17, 2014 American Society of Therapeutic Radiation Oncology (ASTRO) 56th Annual Meeting San Francisco, CA Comparison of Fractionated Stereotactic Radiosurgery and Single-Fraction Stereotactic Radiosurgery for the Treatment of Brain Metastases.

American Society of Therapeutic Radiation Oncology (ASTRO)

56th Annual Meeting

Sept. 14-17, 2014

San Francisco, CA

Patterns of Regional Failure and Evaluation of LN Dose in Early-Stage NSCLC Treated With SBRT.

Sept. 14-17, 2014

American Society of Therapeutic Radiation Oncology (ASTRO)

56th Annual Meeting San Francisco, CA

Evaluation of Interfraction Changes in Tumor Volume to Predict Long-Term Outcomes of SBRT in Early-Stage NSCLC.

Sept. 14-17, 2014

American Society of Therapeutic Radiation Oncology (ASTRO)

56th Annual Meeting San Francisco, CA

Re-treatment of Brain Metastases using Stereotactic Radiosurgery.

Oct. 18-21, 2015

American Society of Therapeutic Radiation Oncology (ASTRO)

57th Annual Meeting San Antonio, TX

Multi-institutional Nomogram Predicting Survival Free From Salvage Whole-Brain Radiation After Radiosurgery for Brain Metastases.

Oct. 18-21, 2015

American Society of Therapeutic Radiation Oncology (ASTRO)

57th Annual Meeting San Antonio, TX

New Cardiac Abnormalities Following Radiation Therapy in Breast

Cancer Patients Treated With Trastuzumab.

Poster Walk

Oct. 18-21, 2015

American Society of Therapeutic Radiation Oncology (ASTRO)

57th Annual Meeting San Antonio, TX

Patients With Long-term Control of Systemic Disease Are a Favorable Prognostic Group for Treatment of Brain Metastases With SRS Alone.

Oct. 18-21, 2015

American Society of Therapeutic Radiation Oncology (ASTRO)

57th Annual Meeting San Antonio, TX

Management approach for recurrent brain metastases following upfront radiosurgery may affect risk of subsequent radiation necrosis.

March 17-19, 2016

American College of Radiation Oncology (ACRO)

Annual Meeting Orlando, FL

Comparison of On-site versus On-line Chart Reviews as Part of the

ACRO Accreditation Program.

Poster Walk

Sept. 24-27, 2017

American Society of Therapeutic Radiation Oncology (ASTRO)

59th Annual Meeting

San Diego, CA

Surgical Resection and Posterior Fossa Location Increase the Incidence of Leptomeningeal Disease in Patients Treated with Stereotactic Radiosurgery for Brain Metastases.

Sept. 24-27, 2017

American Society of Therapeutic Radiation Oncology (ASTRO)

59th Annual Meeting

San Diego, CA

Using a Novel Machine Learning Technique to Predict Brain Metastasis Velocity Following Stereotactic Radiosurgery for Brain Metastases.

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Sept. 24-27, 2017

American Society of Therapeutic Radiation Oncology (ASTRO)

59th Annual Meeting

San Diego, CA

Using a Novel Machine Learning Technique to Predict Radiation Oncology Outcomes.

Sept. 24-27, 2017

American Society of Therapeutic Radiation Oncology (ASTRO)

59th Annual Meeting

San Diego, CA

Five Fraction Accelerated Partial Breast Irradiation (APBI) Using Non-invasive Image-guided Breast Brachytherapy (NIBB): Feasibility and Acute Toxicity.

Oct. 21-24, 2018

American Society of Therapeutic Radiation Oncology (ASTRO)

60th Annual Meeting

San Antonio, TX

Treatment of Brainstem Metastases.

Oct. 21-24, 2018

American Society of Therapeutic Radiation Oncology (ASTRO)

60th Annual Meeting

San Antonio, TX

Dosimetric Comparison of Deep Inspiration Breath-Hold versus Free Breathing for Right-Sided Breast Cancer with Comprehensive Nodal Radiation.

Oct. 21-24, 2018

American Society of Therapeutic Radiation Oncology (ASTRO)

60th Annual Meeting

San Antonio, TX

Multi-institutional Registry Study of Accelerated Partial Breast Irradiation (APBI)Using Non-invasive Image-guided Breast Brachytherapy (NIBB).

Poster Discussion

Invited Lectures:

Local

Oct. 22, 2009 Neuroscience Lecture Series

	Greater Baltimore Medical Center, Baltimore, MD Intracranial Stereotactic Radiosurgery
Jan 14, 2010	Medical Grand Rounds St. Agnes Hospital. Baltimore, MD Stereotactic Radiotherapy for Early Stage Lung Cancer
April 8, 2011	Radiation Oncology Residency Physics Course Tufts Medical Center, Boston, MA Radiosurgery Treatment Delivery
April 12, 2011	Breast Health Center Grand Rounds Women and Infants Hospital, Providence, RI Accelerated Partial Breast Irradiation: Supporting Data, Established Techniques, and Novel Directions
April 15, 2011	Radiation Oncology Nursing Lecture Series (CME) Rhode Island Hospital, Providence, RI Cyberknife and Tumor Tracking
June 17, 2011	Radiation Oncology Grand Rounds Tufts Medical Center, Boston, MA Stereotactic Body Radiotherapy (SBRT) for Spine Metastasis
August 30, 2011	Medical Grand Rounds Rhode Island Hospital, Providence, RI Miriam Hospital, Providence, RI Newport Hospital, Newport, RI 2011 Update – Current Topics in Oncology: Breast Cancer
Sept. 13, 2011	Breast Health Center Grand Rounds Women and Infants Hospital, Providence, RI Oligometastatic Disease in Breast Cancer and the Role of SBRT
July 10, 2012	Neuro-Oncology Grand Rounds Rhode Island Hospital, Providence, RI Radiosurgery for Brain Metastasis.
July 20, 2012	Radiation Therapist Lecture (CME) Rhode Island Hospital, Providence, RI Non-invasive Image-guided Breast Brachytherapy (NIBB) to deliver APBI: BrUOG 251 update.
Feb.17, 2017	Radiation Therapist Lecture (CME) Rhode Island Hospital, Providence, RI APBI of Non-invasive Image-guided Breast Brachytherapy (NIBB) Rationale, Technique, and Update of BrUOG 251 and 291.
May 10, 2019	Oncology Fellow Didactics

Women's Infants Hospital, Providence, RI Radiation Therapy in Early Breast Cancer

Regional	
Oct. 4, 2007	AAPM - New England Chapter Annual Meeting Electronic Brachytherapy: Future directions.
April 30, 2011	Breast Imaging Seminar Anne C. Pappas Center for Breast Imaging Rhode Island Hospital, Providence, RI Imaging for Planning and Guidance of Modern Breast Radiation Therapy
June 15, 2012	AAPM - New England Chapter Annual Meeting Providence, RI Non-invasive Image-guided Breast Brachytherapy (NIBB) to deliver APBI: Rationale and Technique.
Sept. 27, 2012	Coastal Medical – CME on Cancer Diagnosis, Screening and Management. Providence, RI Breast Cancer
Oct. 18, 2014	Avenues of Healing Warwick, RI The Mastectomy Myth: Is Mastectomy Necessary for Cure?
Oct. 9, 2015	American Cancer Society (ACS) Cancer Action Network (CAN) Rhode Island Research Breakfast Providence, RI Key Note Speaker: <i>Innovations in Cancer Research</i>
May 5, 2017	Chest Conference Series for Brown Affiliated Hospitals Providence, RI SBRT for early stage lung cancer
National	
Oct. 26, 2011	Lee Ann Riley Memorial Breast Cancer Symposium Bridgeport, CT Accelerated Partial Breast Irradiation (APBI)
May 18-21, 2012	Gamma Knife Training Course San Juan, Puerto Rico 1. Basic Principles of Radiosurgery vs. Radiotherapy 2. Basic Radiobiology 3. Brain Metastases

4. Gliomas

Feb. 8, 2014	American Brachytherapy Society Quality Management Brachytherapy School 2014 Orlando, FL Breast Brachytherapy Guidelines
Feb. 8, 2014	American Brachytherapy Society Quality Management Brachytherapy School 2014 Orlando, FL QM for Breast Brachytherapy
Feb. 8, 2014	American Brachytherapy Society Quality Management Brachytherapy School 2014 Orlando, FL QM for Accuboost
Feb. 8, 2014	American Brachytherapy Society Quality Management Brachytherapy School 2014 Orlando, FL Panelist: <i>Treatment planning: TG43 to heterogeneity correction</i>
Feb. 24, 2014	Varian Webinar Lecture Series Non-invasive Breast Brachytherapy for APBI: A new prospective
April 4, 2014	American Brachytherapy Society (ABS) Annual Meeting San Diego, CA Non-invasive image-guided breast brachytherapy for APBI
April 4, 2014	American Brachytherapy Society (ABS) Annual Meeting San Diego, CA Moderator: Challenging Cases in Breast Brachytherapy
March 18, 2016	American College of Radiation Oncology (ACRO) Annual Meeting Orlando, FL ACRO Accreditation Update
April 8, 2016	Accuboost Users Meeting Boca Rotan, FL 1. Rational and Update of NIBB APBI 2. Patient Selection for NIBB 3. Dosimetry of NIBB 4. Challenging Cases
April 22, 2016	Accuboost Users Meeting San Diego, CA 1. Rational and Update of NIBB APBI 2. Patient Selection for NIBB

3. Dosimetry of NIBB

4. Challenging Cases

March, 2017 American College of Radiation Oncology (ACRO)

Annual Meeting Orlando, FL

ACRO Accreditation Review and Update

April 20, 2017 American Brachytherapy Society (ABS)

Annual Meeting Boston, MA

Moderator: Novel Applications of Breast Brachytherapy

April 21, 2017 American Brachytherapy Society (ABS)

Annual Meeting Boston, MA

Moderator: Scientific Session: Socioeconomic Proffered Papers

March, 2018 American College of Radiation Oncology (ACRO)

Annual Meeting Orlando, FL

ACRO Accreditation Review and Update

June 7, 2018 American Brachytherapy Society (ABS)

Annual Meeting San Francisco, CA

Individualizing Breast Brachytherapy Treatment Recommendations:

Non-invasive Image-guided Breast Brachytherapy.

Oct. 19, 2018 American Brachytherapy Society (ABS)

Annual Meeting San Antonio, TX

Can APBI be the Preferred Option for Early Stage Breast Cancer:

Techniques and limitations.

March 8, 2019 American College of Radiation Oncology (ACRO)

Annual Meeting Orlando, FL

ACRO Accreditation Update 2019

April 29, 2019 Varian Webinar Lecture Series

Non-Invasive Breast Brachytherapy – A Clinical Update

June 13, 2019 American Brachytherapy Society (ABS)

Annual Meeting

Miami, FL

Breast Session I: Partial Breast Irradiation 2019- Data, Guidelines,

and Novel Approaches: Novel PBI Techniques June 14, 2019 American Brachytherapy Society (ABS)

Annual Meeting Miami, FL

Breast Session II: Partial Breast Irradiation- Targets and Techniques:

Non-invasive Image-guided Breast Brachytherapy (NIBB)

International

June 29, 2016 World Congress of Brachytherapy

San Francisco, CA

Moderator: Eye Plaques for Choroidal Melanoma

June 29, 2016 World Congress of Brachytherapy

San Francisco, CA

Results of Non-invasive Image-guided Breast Brachytherapy (NIBB)

Editorial Activity

Associate Editor

2019 – Present Frontier in Radiation Oncology - Impact Factor 4.416 (2018)

Member - Editorial board

2010 - 2019	Frontier in Radiation Oncology - Impact Factor 4.416 (2018)
2013 – Present	American Journal of Clinical Oncology - Impact Factor 3.062
2014 – Present	Brachytherapy - Impact Factor 2.758

2019 – Present International Journal of Radiation Oncology, Biology, and Physics

Ad Hoc Reviewer

Brachytherapy
American Journal of Clinical Oncology
International Journal of Radiation Oncology, Biology, and Physics
BMC Research Notes
Radiation Oncology
Cancer
Medical Dosimetry
Breast Cancer: Targets and Therapy
Journal of Contemporary Brachytherapy
Practical Radiation Oncology
Advances in Radiation Oncology

Clinical Trials

1. Principle Investigator

BrUOG BR 251: Accelerated Partial Breast Irradiation using Non-invasive Image-guided Breast Brachytherapy (NIBB) for Early Stage Breast Cancer: A Toxicity Assessment.

2. Co-Principle Investigator

BrUOG L 259: Stereotactic Body Radiation for Consolidation after Standard Chemoradiation for Stage III Lung Cancer.

3. Co- Principle Investigator

BrUOG 246: Cabazitaxel and Radiation For Patients With Pathologically Determined Stage 3 Prostate Cancer and/or Patients with PSA Elevation (\geq 0.1ng/ml - < 2.0 ng/mL) Following Radical Prostatectomy.

4. Principle Investigator

BrUOG BR 291: Five Fraction Partial Breast Irradiation using Non-invasive Imageguided Breast Brachytherapy (NIBB).

5. Principle Investigator

BrUOG BR 351: Pre-operative Accelerated Partial breast Irradiation (APBI) using Non-invasive Image-Guided Breast Brachytherapy (NIBB).

6. Co-Principle Investigator

BrUOG L 358: Durvalumab and Consolidation SBRT Following Chemoradiation for Locally Advanced Stage III Non-Small Cell Lung.

7. RIH Site - Principle Investigator

DFCI-INSIGhT: Individualized Screening trial of Innovative Glioblastoma Therapy

8. RIH Site - Principle Investigator

DFCI Brain Mets: Whole brain radiation versus stereotactic radiation in patients with 5-20 brain metastases: A phase III, randomized clinical trial.

Grants

1. Grant Title: APBI using Non-invasive Image-guided Breast Brachytherapy (NIBB)

Funding Agency: Advanced Radiation Therapy, LLC

Amount: \$80.000

Period: 07/01/2011 - 6/31/2016 **Role**: Principal investigator

2. Grant Title: R01CA163370: "Improving Cancer Treatment Planning by DMH-Based Inverse Optimization"

Funding Agency: National Cancer Institute (NCI)

Amount: \$207,500 annual direct cost. **Period:** 07/09/2012 – 03/31/2013

Role: Co-Investigator (PI: IB Mihaylov, Ph.D.)

3. Grant Title: Five Fraction Partial Breast Irradiation using Non-invasinve Image-guided Breast Breachytherapy (NIBB).

Funding Agency: Advanced Radiation Therapy, LLC

Amount: \$80,000

Period: 10/01/2013 – 9/3/2018 **Role**: Principal investigator

4. Grant Title: Pre-operative Accelerated Partial breast Irradiation (APBI) using Non-invasive Image-Guided Breast Brachytherapy (NIBB).

Funding Agency: Advanced Radiation Therapy, LLC

Amount: \$90,000 **Period:** 6/1/2019 – 5/31/2022 **Role**: Principal investigator