

**Department of Radiation Oncology**  
**2013 ASTRO Abstracts Accepted for Presentation:**

**1. A Comparison Between Consensus Guidelines Based PTVs And 4D-CT Based PTVs For Locally Advanced Pancreatic Cancer: Implications For Therapy**

**Author Block:** M. S. Rutenberg, M. A. Errens\*, N. Sharma\*, X. Yang\*, B. Yi\*, W. F. Regine\*. *University of Maryland Medical Center, Baltimore, MD*

*Selected for presentation in a **Digital Poster Discussion** during the ASTRO 2013 Annual Meeting.*

**2. Addition of 4D CT Simulation Decreases Normal Tissue Irradiation and Target Exclusion Compared to 3D CT Simulation Alone in NSCLC**

**Author Block:** Patel K., Garofalo MC, Yi B, Morris C, Feigenberg SJ.

*University of Maryland Medical Center, Baltimore, MD*

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**3. Dosimetric Effects of Daily Anatomic Variations when Treating High Risk Prostate with Whole Pelvis IMRT using an Adaptive Strategy and Dual-Plan Superposition**

**Author Block:** C. G. Schinkel, M. Rutenberg\*, X. Yang\*, P. Amin\*, Z. Vujaskovic\*, K. Prado\*, B. Yi\*.

*University of Maryland School of Medicine, Baltimore, MD*

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**4. Radiation Therapy in Pancreatic Neuroendocrine Tumors: Favorable Outcomes and Low Toxicity in a Multi-Institutional Experience**

**Author Block:** Huma E Chaudhry<sup>1,6</sup>, Trevor A Ellison<sup>2</sup>, Bertram W Maidment III<sup>7</sup>, William F Regine<sup>1</sup>, H Richard Alexander<sup>4</sup>, Nader N Hanna<sup>4</sup>, Christopher L Wolfgang<sup>2</sup>, Christopher G Morris<sup>5</sup>, Joseph M Herman<sup>3</sup>, Navesh K Sharma<sup>1</sup>

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**5. The Dosimetric Effect of Tumor Size and Position in Prone Radiotherapy of Breast using a Novel Stereotactic Breast Irradiation Device: the GammaPod™**

**Author Block:** Yildirim D. Mutaf<sup>1</sup>, Huma Chaudhry<sup>1,3</sup>, Cedric X. Yu<sup>1,2</sup>, ByongYong Yi<sup>1</sup>, Karl Prado<sup>1</sup>, Warren D D'Souza<sup>1</sup>, William F Regine<sup>1</sup> and Steven J Feigenberg<sup>1</sup>

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**6. A prospective trial of Preoperative Accelerated Partial Breast Irradiation (APBI): Predictors of Asymptomatic and Symptomatic Seroma Formation**

**Author Block:** Huma E. Chaudhry<sup>1,5</sup>, Alexandra L. Hanlon<sup>2</sup>, Susan B. Kesmodel<sup>3</sup>, Emily C. Bellavance<sup>3</sup>, Katherine H. Tkaczuk<sup>4</sup>, Cynthia L. Drogula<sup>3</sup>, Wendla Citron<sup>1</sup>, Randi Cohen<sup>1</sup>, William F. Regine<sup>1</sup>, Steven J. Feigenberg<sup>1</sup>

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**7. An Approximate Entropy-based Method for Prediction of 4D-CT Quality from Respiratory Signals. Author Block: K. Mooney\*, G. Lasio\*, W. Lu\*, S.J. Feigenberg\*, W.F. Regine\*, W.D. D'Souza\*.**

*University of Maryland School of Medicine, Baltimore, MD*

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**8. A Population-based Treatment Margin for Respiratory Motion of Lung Tumors**

**Author Block:** K. Mooney\*, S. Chen\*, S.J. Feigenberg\*, N.K. Sharma\*, W.D. D'Souza\*. *University of Maryland School of Medicine, Baltimore, MD*

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**9. An Evaluation of Worldwide Proton Beam Therapy Clinical Trials**

**Author Block:** Mark V. Mishra, MD, William Regine, MD, Minesh Mehta, MD

*Selected for presentation in a **Digital Poster Discussion** during the ASTRO 2013 Annual Meeting.*

**10. Marriage is Associated with Choice of Mastectomy in Patients Eligible for Breast Conservation Therapy**

**Author Block:** A. S. Reese, S. B. Kesmodel, E. C. Bellavance, J. B. Reese, C. Campassi, K. H. Tkaczuk, T. Bao, S. S. Chumsri, J. A. Olson, S. J. Feigenberg

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**11. Androgen Deprivation Therapy is Associated with a Significant Change in Prostate Volume Throughout De-finitive Radiotherapy for Localized Prostate Cancer**

**Author Block:** Sarah Grabowski MD; Matthew Earl Ph.D, Heeteak Chung Ph.D, Wendla Citron MD, Mitch Oh MD, Pra-dip Amin MD, Young Kwok MD, Alexandra Hanlon Ph.D; Randi Cohen MD, MS.

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**12. Investigation of Low Dose Fractionated Radiation Therapy as a Chemopotentiator in Advanced/Metastatic Gastrointestinal Carcinoma**

**Author Block:** France Carrier, Elizabeth T Chang, Duc Ngu-yen and Navesh Sharma.

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**13. Association Between K-ras Mutation Status And Survival In mCRC Patients Undergoing Selective Internal Radiation Therapy (SIRT) to the Liver Using Yttrium-90 Coated Resin**

**Microspheres Author Block** N. K. Sharma, H. Chaudhry\*, M. Horiba\*, N. N. Hanna\*, H. Alexander\*, P. F. Hausner\*, W. F. Regine\*, P. P. Amin\*, S. Kudryasheva\*, F. M. Moeslein\*. *University of Maryland Medical Systems, Baltimore, MD.*

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**14. Margins determined using 4DCT often underestimate tumor motion in thoracic tumors**

**Author Block:** Xiutao Shi<sup>1</sup>, Shifeng Chen<sup>1</sup>, Warren D. D'Souza<sup>1</sup>, Nilesh N. Mistry<sup>1</sup>

<sup>1</sup>*Department of Radiation Oncology, University of Maryland School of Medicine, Balto, MD 21201, USA*

*Selected for **ORAL** presentation during the ASTRO 2013 Annual Meeting.*

**15. Adjuvant Radiation Improves Breast Cancer Specific Survival in the Eldest Early-Stage Breast Cancer Patients**

**Author Block:** R. J. Cohen<sup>1</sup>, L. Li<sup>2</sup>, U. Mahmood<sup>3</sup>, A. Hanlon<sup>4</sup>, W. Citron<sup>1</sup>, M. Oh<sup>1</sup>, C. Drogulas<sup>5</sup>, S. Cheston<sup>1</sup>, N. Sharma<sup>1</sup>, S. J. Feigenberg<sup>1</sup>

<sup>1</sup> Radiation Oncology, University of Maryland, Baltimore, MD

<sup>2</sup> Radiation Oncology, Bryn Mawr Hospital, Bryn Mawr, PA

<sup>3</sup> Radiation Oncology, MD Anderson Cancer Center, Houston, TX

<sup>4</sup> Statistics, Department of Nursing, University of Pennsylvania, Philadelphia, PA

<sup>5</sup> Surgical Oncology, University of Maryland, Baltimore, MD

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**16. Feasibility Study Testing the Incorporation of Resting State fMRI Data in Radiation Therapy Planning to Limit Dose to Cognitive Function Networks in Patients with Primary Brain Tumors**

**Author Block:** Chandler Sours, Nilesh Mistry, Hao Zhang, Young Kwok, Minesh Mehta, William Regine, Warren D'Souza, Rao Gullapalli

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**17. Assessing Tumor Coverage and Organ-At-Risk Doses during Intra-Fraction Motion via Probability Mass Function of Real-Time Respiratory Trajectories**

**Author Block:** H. Ghaffari, X. Yang, W. D'Souza, B. Zhang, H. Zhang

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**18. Prostate Cancer Foci Detection and Aggressiveness Identification Using Multiparametric MRI/MRS and Supervised Learning**

**Author Block:** H. Zhang, D. Anderson, B. Golden, N. Mistry, R. Gullapalli, M. Naslund, J. Wong, W. D'Souza.

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**19. Predictors of Pathologic Complete Response Rates in Patients Receiving Trimodality Therapy for Esophageal Cancer.** **Author Block:** D. Hunter Boggs M.D., Chris Taraboulos M.D., Whitney Burrows M.D., Naomi Horiba M.D., Mohan Suntharalingam M.D. M.B.A.

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**20. Interim Results of a Prospective Phase II trial of Pelvic IMRT, Cesium-131 Brachytherapy Boost, Adjuvant Docetaxel Chemotherapy, and Long Term Androgen Ablation for Patients with High Risk Prostate Cancer**

**Author Block:** Y. Kwok, M. Ferris\*, M. Moshe\*, R. Kataria\*, C. Nickerson\*. , From: Departments of Radiation Oncology<sup>1</sup>, Medical Oncology<sup>2</sup> and Urology<sup>3</sup>, University of Maryland School of Medicine, Baltimore, MD

*Selected for **ORAL** presentation during the ASTRO 2013 Annual Meeting.*

**21. Report of Hippocampal Contouring Credentialing in RTOG 0933**

**Author Block:** Cui Y, Tome W, Gondi V, Mehta MP, Manfredi D, Galvin JM, Xiao Y

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**22. Secondary Analysis of RTOG 9508, A Phase III Randomized Trial of Whole Brain Radiation Therapy (WBRT) versus WBRT plus Stereotactic Radiosurgery (SRS) in Patients with 1-3 Brain Metastases; Post-stratified by the Graded Prognostic Assessment (GPA).**

**Author Block:** Sperduto P, Mehta MP

*Selected for **ORAL** presentation during the ASTRO 2013 Annual Meeting.*

**23. Predictive Factors for Brain Metastases and Relapse and Prognostic Factors for Survival in Stage III-IV Non-Small Cell Lung Cancer (NSCLC)**

**Author Block:** Yoon H, Helenowski IB, Bhandari R, Raparia K, Marymont M, DeCamp M, Hoyos A de, Chandler J, Bendok B, Mehta M

*Selected for **Poster Viewing** during the ASTRO 2013 Annual Meeting.*

**24. Time to intracranial failure following post-resection cavity radiosurgery for patients with a single intracranial metastasis.** **Author Block:** Kalakota K, Mehta MP

*Selected for presentation in a **Digital Poster Discussion** during the ASTRO 2013 Annual Meeting.*