



Mark Buyyounouski

Professor of Radiation Oncology (Radiation Therapy) at the Stanford University Medical Center

Radiation Oncology - Radiation Therapy

CLINICAL OFFICES

- **Dept of Radiation Oncology**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

CLINICAL FOCUS

- Cancer > Radiation Oncology
- Cancer > Urologic Oncology
- Prostate Cancer
- Decision Making
- Radiation Oncology
- Brachytherapy
- Radiotherapy Intensity-Modulated
- Stereotactic Body Radiotherapy

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director of Clinical Operations, Clinical Operations, Radiation Oncology, (2015-2016)
- Director of Billing, Dept. of Radiation Oncology, (2014- present)
- Director of Genitourinary Cancers, Dept. Radiation Oncology, (2013- present)

HONORS AND AWARDS

- Roentgen Resident/Fellow Research Award, Radiological Society of North America Roentgen (RSNA) (2003, 2005)
- Travel Grant to attend National Cancer Institute Radiation Research Program, American Society for Radiation Oncology (ASTRO) (2005)
- RSNA Seed Grant, Radiological Society of North America Roentgen (RSNA) (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society for Medical Decision Making (SMDM) (2015 - present)
- Member, American College of Radiology (ACR) (2015 - present)
- Member, American Society of Radiation Oncology (ASTRO) (2001 - present)
- Member, American Brachytherapy Society (ABS) (2001 - present)

PROFESSIONAL EDUCATION

- Internship: Saint Barnabas Medical Center (2001) NJ
- Medical Education: UMDNJ-Robert Wood Johnson Medical School Registrar (2000) NJ
- Board Certification: Radiation Oncology, American Board of Radiology (2006)
- Residency: Fox Chase Cancer Center (2005) PA

COMMUNITY AND INTERNATIONAL WORK

- Radiotherapy – Adjuvant vs Early Salvage

LINKS

- Stanford Cancer Center New Patient Packet: <https://stanfordmedicine.box.com/s/9jt6aacvwuvpgq2fvk69rxix0gw3qae>
- Guide to Shared Decision Making: <https://stanfordmedicine.box.com/s/jzl4yxpb0ejhsgpg62xw>
- HDR Infographic: <https://stanfordmedicine.box.com/s/orsqr51r7u69st4luukweo1gw6688u28>
- Radiation Therapy for Prostate Cancer: <https://stanfordmedicine.box.com/s/dvwcuum61fmzydj7gvlkta0feu27zbdq>
- ABS HDR Task Force: <https://stanfordmedicine.box.com/s/b6nea4jn2s7prfu4r7nwdnoun4lre2rz>
- VIDEO - Prostate Cancer: <https://www.youtube.com/watch?v=CyiczIJY7PI&feature=youtu.be>
- VIDEO - HDR Prostate Brachytherapy: https://youtu.be/Kug_z22Mrn0
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CLINICAL TRIALS

- High-Dose Brachytherapy in Treating Patients With Prostate Cancer, Recruiting
- Stereotactic Body Radiation Therapy or Intensity-Modulated Radiation Therapy in Treating Patients With Stage IIA-B Prostate Cancer, Recruiting
- Surgery With or Without Postoperative Intensity Modulated Radiation Therapy in Treating Patients With Urothelial Bladder Cancer, Recruiting
- Hypofractionated Radiation Therapy or Conventional Radiation Therapy After Surgery in Treating Patients With Prostate Cancer, Not Recruiting
- Prostate Radiation Therapy or Short-Term Androgen Deprivation Therapy and Pelvic Lymph Node Radiation Therapy With or Without Prostate Radiation Therapy in Treating Patients With a Rising Prostate Specific Antigen (PSA) After Surgery for Prostate Cancer, Not Recruiting

PROJECTS

- Prostate Cancer Treatment Patterns of Care Among Specialists with and without Personal Preferences - Stanford Cancer Institute

Publications

PUBLICATIONS

- **Long-term Outcomes of Stereotactic Body Radiotherapy for Low-Risk and Intermediate-Risk Prostate Cancer.** *JAMA network open*
Kishan, A. U., Dang, A., Katz, A. J., Mantz, C. A., Collins, S. P., Aghdam, N., Chu, F., Kaplan, I. D., Appelbaum, L., Fuller, D. B., Meier, R. M., Loblaw, D. A.,
Cheung, et al
2019; 2 (2): e188006

- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: An ASTRO, ASCO, and AUA Evidence-Based Guideline.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
Morgan, S. C., Hoffman, K., Loblaw, D. A., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2018; JCO1801097
- **NCCN Guidelines Insights: Bladder Cancer, Version 5.2018.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Flaig, T. W., Spiess, P. E., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Downs, T. M., Efstathiou, J. A., Friedlander, T., Greenberg, R. E., Guru, K. A., Hahn, N., Herr, et al
2018; 16 (9): 1041–53
- **Prostate Cancer - Major Changes in the American Joint Committee on Cancer Eighth Edition Cancer Staging Manual** *CA-A CANCER JOURNAL FOR CLINICIANS*
Buyyounouski, M. K., Choyke, P. L., McKenney, J. K., Sartor, O., Sandler, H. M., Amin, M. B., Kattan, M. W., Lin, D. W.
2017; 67 (3): 246-253
- **Prostate cancer - major changes in the American Joint Committee on Cancer eighth edition cancer staging manual.** *CA: a cancer journal for clinicians*
Buyyounouski, M. K., Choyke, P. L., McKenney, J. K., Sartor, O., Sandler, H. M., Amin, M. B., Kattan, M. W., Lin, D. W.
2017
- **Improving Care With a Portfolio of Physician-Led Cancer Quality Measures at an Academic Center** *Improving Care With a Portfolio of Physician-Led Cancer Quality Measures at an Academic Center*
Porter, J. B.
2017; 13 (8): e673-e682
- **Incorporating imaging information from deep neural network layers into image guided radiation therapy (IGRT).** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Zhao, W., Han, B., Yang, Y., Buyyounouski, M., Hancock, S. L., Bagshaw, H., Xing, L.
2019; 140: 167–74
- **Multi-institutional Analysis of Prostate-Specific Antigen Kinetics Following Stereotactic Body Radiotherapy (SBRT).** *International journal of radiation oncology, biology, physics*
Jiang, N. Y., Dang, A. T., Yuan, Y., Chu, F., Shabsovich, D., King, C. R., Collins, S. P., Aghdam, N., Suy, S., Mantz, C. A., Miszczyk, L., Napieralska, A., Namysl-Kaletka, et al
2019
- **Dose Distribution Prediction in Isodose Feature-Preserving Voxelizeation Domain Using Deep Convolutional Neural Network.** *Medical physics*
Ma, M., Buyyounouski, M. K., Vasudevan, V., Xing, L., Yang, Y.
2019
- **Incorporating dosimetric features into the prediction of 3D VMAT dose distributions using deep convolutional neural network.** *Physics in medicine and biology*
Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
2019
- **Evaluating Prostate-Specific Antigen (PSA) Nadir and Bounce After Stereotactic Body Radiotherapy (SBRT) in a Multi-Institutional Cohort**
Jiang, N., Dang, A., Yuan, Y., Chu, F., King, C., Collins, S., Aghdam, N., Suy, S., Miszczyk, L., Mantz, C., Bagshaw, H., Buyyounouski, M., Steinberg, et al
ELSEVIER SCIENCE INC.2019: E17
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: Executive Summary of an ASTRO, ASCO and AUA Evidence-Based Guideline** *JOURNAL OF UROLOGY*
Morgan, S. C., Hoffman, K., Loblaw, D., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2019; 201 (3): 528–34
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: Executive Summary of an ASTRO, ASCO and AUA Evidence-Based Guideline.** *The Journal of urology*
Morgan, S. C., Hoffman, K., Loblaw, D. A., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2019; 201 (3): 528–34

- **Prostate cancer classification with multiparametric MRI transfer learning model** *MEDICAL PHYSICS*
Yuan, Y., Qin, W., Buyyounouski, M., Ibragimov, B., Hancock, S., Han, B., Xing, L.
2019; 46 (2): 756–65
- **Dosimetric features-driven machine learning model for DVH prediction in VMAT treatment planning** *MEDICAL PHYSICS*
Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
2019; 46 (2): 857–67
- **Long-term Outcomes of Stereotactic Body Radiotherapy for Low-Risk and Intermediate-Risk Prostate Cancer** *JAMA NETWORK OPEN*
Kishan, A. U., Dang, A., Katz, A. J., Mantz, C. A., Collins, S. P., Aghdam, N., Chu, F., Kaplan, I. D., Appelbaum, L., Fuller, D. B., Meier, R. M., Loblaw, D., Cheung, et al
2019; 2 (2)
- **Prostate Cancer Classification with Multi-parametric MRI Transfer Learning Model.** *Medical physics*
Yuan, Y., Qin, W., Buyyounouski, M., Ibragimov, B., Hancock, S., Han, B., Xing, L.
2018
- **Dosimetric Features-Driven Machine Learning Model for DVHs Prediction in VMAT Treatment Planning.** *Medical physics*
Ma, M., Kovalchuk, N., Buyyounouski, M. K., Xing, L., Yang, Y.
2018
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: An ASTRO, ASCO, and AUA Evidence-Based Guideline** *JOURNAL OF CLINICAL ONCOLOGY*
Morgan, S. C., Hoffman, K., Loblaw, D., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2018; 36 (34): 3411–+
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: Executive Summary of an ASTRO, ASCO, and AUA Evidence-Based Guideline** *PRACTICAL RADIATION ONCOLOGY*
Morgan, S. C., Hoffman, K., Loblaw, D., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2018; 8 (6): 354–60
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: Executive Summary of an ASTRO, ASCO, and AUA Evidence-Based Guideline.** *Practical radiation oncology*
Morgan, S. C., Hoffman, K., Loblaw, D. A., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2018; 8 (6): 354–60
- **Hypofractionated Radiation Therapy for Localized Prostate Cancer: An ASTRO, ASCO, and AUA Evidence-Based Guideline.** *The Journal of urology*
Morgan, S. C., Hoffman, K., Loblaw, D. A., Buyyounouski, M. K., Patton, C., Barocas, D., Bentzen, S., Chang, M., Efstathiou, J., Greany, P., Halvorsen, P., Koontz, B. F., Lawton, et al
2018
- **NCCN Guidelines (R) Insights Bladder Cancer, Version 5.2018 Featured Updates to the NCCN Guidelines** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Flaig, T. W., Spiess, P. E., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Downs, T. M., Efstathiou, J. A., Friedlander, T., Greenberg, R. E., Guru, K. A., Noah Hahn, Herr, H. W., et al
2018; 16 (9): 1041–53
- **Radiation therapy for prostate cancer** *TRANSLATIONAL ANDROLOGY AND UROLOGY*
Buyyounouski, M. K.
2018; 7 (3): 295–96
- **Long-term outcomes of stereotactic body radiotherapy for low- and intermediate-risk prostate adenocarcinoma: A multi-institutional consortium study.**
Kishan, A., Katz, A. J., Mantz, C., Chu, F., Appelbaum, L., Loblaw, A., Cheung, P., Kaplan, I. D., Fuller, D. B., Pham, H. T., Meier, R., Buyyounouski, M. K., Shaverdian, et al
AMER SOC CLINICAL ONCOLOGY.2018
- **Radiation therapy for prostate cancer.** *Translational andrology and urology*
Buyyounouski, M. K.

2018; 7 (3): 295–96

- **Bladder Cancer, Version 5.2017** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Spiess, P. E., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Clark, P. E., Downs, T. M., Efstathiou, J. A., Flaig, T. W., Friedlander, T., Greenberg, R. E., Guru, K. A., Noah Hahn, et al
2017; 15 (10): 1240–67
- **Peering over the chasm: Diffusion of prostate radiation therapy hypofractionation** *PRACTICAL RADIATION ONCOLOGY*
Buyyounouski, M. K.
2017; 7 (4): 279–80
- **What More Can Be Learned From the ASCENDE-RT Trial?** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Hamstra, D. A., Krauss, D., Buyyounouski, M. K.
2017; 98 (2): 481–82
- **Robust Estimation of Electron Density From Anatomic Magnetic Resonance Imaging of the Brain Using a Unifying Multi-Atlas Approach.** *International journal of radiation oncology, biology, physics*
Ren, S., Hara, W., Wang, L., Buyyounouski, M. K., Le, Q., Xing, L., Li, R.
2017; 97 (4): 849-857
- **Improving care with portfolio of physician-led cancer quality measures at an academic center**
Porter, J., Smith, A., Winget, M., Rosenthal, E., Seshadri, S., Vetteth, Y., Kiamanesh, E. F., Badwe, A., Advani, R. H., Buyyounouski, M. K., Coutre, S., Dorigo, O., Ganjoo, et al
AMER SOC CLINICAL ONCOLOGY.2017
- **Prospective Validation of Diagnostic Tumor Biomarkers in Men Treated With Radiotherapy for Prostate Cancer** *JNCI-JOURNAL OF THE NATIONAL CANCER INSTITUTE*
Pollack, A., Kwon, D., Walker, G., Khor, L. Y., Horwitz, E. M., Buyyounouski, M. K., Stoyanova, R.
2017; 109 (2)
- **NCCN Guidelines (R) Insights Bladder Cancer, Version 2.2016 Featured Updates to the NCCN Guidelines** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Clark, P. E., Spiess, P. E., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Efstathiou, J. A., Flaig, T. W., Friedlander, T., Greenberg, R. E., Guru, K. A., Hahn, N., Herr, et al
2016; 14 (10): 1213-1224
- **NCCN Guidelines Insights: Bladder Cancer, Version 2.2016.** *Journal of the National Comprehensive Cancer Network*
Clark, P. E., Spiess, P. E., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Efstathiou, J. A., Flaig, T. W., Friedlander, T., Greenberg, R. E., Guru, K. A., Hahn, N., Herr, et al
2016; 14 (10): 1213-1224
- **Electronic Release of Pathology and Radiology Results to Patients: Opinions and Experiences of Oncologists.** *Journal of oncology practice / American Society of Clinical Oncology*
Winget, M., Haji-Sheikhi, F., Brown-Johnson, C., Rosenthal, E. L., Sharp, C., Buyyounouski, M. K., Asch, S. M.
2016; 12 (8): e792-9
- **Overall Survival in Patients with Localized Prostate Cancer in the US Veterans Health Administration: Is PIVOT Generalizable?** *EUROPEAN UROLOGY*
Barbosa, P. V., Thomas, I., Srinivas, S., Buyyounouski, M. K., Chung, B. I., Chertow, G. M., Asch, S. M., Wagner, T. H., Brooks, J. D., Leppert, J. T.
2016; 70 (2): 227-230
- **SBRT and HDR brachytherapy produce lower PSA nadirs and different PSA decay patterns than conventionally fractionated IMRT in patients with low- or intermediate-risk prostate cancer.** *Practical radiation oncology*
Kishan, A. U., Wang, P., Upadhyaya, S. K., Hauswald, H., Demanes, D. J., Nickols, N. G., Kamrava, M., Sadeghi, A., Kupelian, P. A., Steinberg, M. L., Prionas, N. D., Buyyounouski, M. K., King, et al
2016; 6 (4): 268-275
- **Oncologists' opinions and experiences with electronic release of radiology and pathology results to patients.**
Winget, M., Sheikhi, F., Rosenthal, E., Sharp, C., Buyyounouski, M. K., Asch, S.
AMER SOC CLINICAL ONCOLOGY.2016
- **Interval to biochemical failure is prognostic for distant metastases after salvage radiation therapy for prostate cancer** *JOURNAL OF RADIATION ONCOLOGY*

- Zaorsky, N., Li, T., Turaka, A., Chen, D. T., Horwitz, E. M., Buyyounouski, M. K.
2016; 5 (1): 79–85
- **Comparison of testicular dose delivered by intensity-modulated radiation therapy (IMRT) and volumetric-modulated arc therapy (VMAT) in patients with prostate cancer.** *Medical dosimetry*
Martin, J. M., Handorf, E. A., Price, R. A., Cherian, G., Buyyounouski, M. K., Chen, D. Y., Kutikov, A., Johnson, M. E., Ma, C. C., Horwitz, E. M.
2015; 40 (3): 186-189
 - **Comparison of testicular dose delivered by intensity-modulated radiation therapy (IMRT) and volumetric-modulated arc therapy (VMAT) in patients with prostate cancer** *MEDICAL DOSIMETRY*
Martin, J. M., Handorf, E. A., Price, R. A., Cherian, G., Buyyounouski, M. K., Chen, D. Y., Kutikov, A., Johnson, M. E., Ma, C. C., Horwitz, E. M.
2015; 40 (3): 186-189
 - **Development and preliminary testing of PROGRESS: a Web-based education program for prostate cancer survivors transitioning from active treatment** *JOURNAL OF CANCER SURVIVORSHIP*
Miller, S. M., Hudson, S. V., Hui, S. A., Diefenbach, M. A., Fleisher, L., Raivitch, S., Belton, T., Roy, G., Njoku, A., Scarpato, J., Viterbo, R., Buyyounouski, M., Denlinger, et al
2015; 9 (3): 541-553
 - **Aspirin use decreases the risk of prostate cancer recurrence after post-prostatectomy radiotherapy** *JOURNAL OF RADIATION ONCOLOGY*
Zaorsky, N., Li, T., Cohen, R. J., Horwitz, E. M., Uzzo, R. G., Viterbo, R., Buyyounouski, M. K.
2015; 4 (2): 193–201
 - **Evaluating toxicity from definitive radiation therapy for prostate cancer in men with inflammatory bowel disease: Patient selection and dosimetric parameters with modern treatment techniques.** *Practical radiation oncology*
Murphy, C. T., Heller, S., Ruth, K., Buyyounouski, M. K., Weinberg, D., Uzzo, R. G., Plimack, E., Kutikov, A., Chen, D. Y., Horwitz, E. M.
2015; 5 (3): e215-22
 - **Post-radiotherapy prostate biopsies reveal heightened apex positivity relative to other prostate regions sampled** *RADIOTHERAPY AND ONCOLOGY*
Huang, K. T., Stoyanova, R., Walker, G., Sandler, K., Studenski, M. T., Dogan, N., Al-Saleem, T., Buyyounouski, M. K., Horwitz, E. M., Pollack, A.
2015; 115 (1): 101-106
 - **The Case for Prostate Brachytherapy in the Affordable Care Act Era** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Durkee, B. Y., Buyyounouski, M. K.
2015; 91 (3): 465–67
 - **Radiobiological Modeling and the Study of Hypofractionated Radiotherapy for Prostate Cancer** *EUROPEAN UROLOGY*
Buyyounouski, M. K.
2014; 66 (6): 1031–32
 - **Salvage low-dose-rate I-125 partial prostate brachytherapy after dose-escalated external beam radiotherapy** *JOURNAL OF CONTEMPORARY BRACHYTHERAPY*
Chang, L., Buyyounouski, M. K.
2014; 6 (3): 304-310
 - **Reply to m.j. Brenner et Al and I.R. Vogelius et Al.** *Journal of clinical oncology*
Pollack, A., Walker, G., Horwitz, E. M., Price, R., Feigenberg, S., Konski, A. A., Stoyanova, R., Movsas, B., Greenberg, R. E., Uzzo, R. G., Ma, C., Buyyounouski, M. K.
2014; 32 (17): 1853-1854
 - **Tadalafil for Prevention of Erectile Dysfunction After Radiotherapy for Prostate Cancer The Radiation Therapy Oncology Group [0831] Randomized Clinical Trial** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
Pisansky, T. M., Pugh, S. L., Greenberg, R. E., Pervez, N., Reed, D. R., Rosenthal, S. A., Mowat, R. B., Raben, A., Buyyounouski, M. K., Kachnic, L. A., Bruner, D. W.
2014; 311 (13): 1300-1307
 - **Does family history of prostate cancer affect outcomes following radiotherapy?** *Radiotherapy and oncology*
Bagshaw, H., Ruth, K., Horwitz, E. M., Chen, D. Y., Buyyounouski, M. K.
2014; 110 (2): 229-234
 - **Toxicity analysis of lymph node irradiation for prostate cancer patients treated with IMRT**

- Johnson, M. E., Li, T., Kutikov, A., Buyyounouski, M. K., Sobczak, M. L., Viterbo, R., Horwitz, E. M.
AMER SOC CLINICAL ONCOLOGY.2014
- **A novel biomarker panel examining response to adjuvant pancreatic cancer therapy in RTOG 9704**
Heestand, G. M., Murphy, J., Moughan, J., Regine, W., Luo, J., Graber, M., Kunz, P. L., Fisher, G. A., Guha, C., Lin, B., Mowat, R. B., Gaur, R., Buyyounouski, et al
AMER SOC CLINICAL ONCOLOGY.2014
 - **Examining the evidence in pursuit of the highest possible brachytherapy standards** *BRACHYTHERAPY*
Buyyounouski, M. K., Viswanathan, A. N., Prestidge, B. R., Amer Brachytherapy Soc Comm Eviden
2014; 13 (1): 15–16
 - **Randomized trial of hypofractionated external-beam radiotherapy for prostate cancer.** *Journal of clinical oncology*
Pollack, A., Walker, G., Horwitz, E. M., Price, R., Feigenberg, S., Konski, A. A., Stoyanova, R., Movsas, B., Greenberg, R. E., Uzzo, R. G., Ma, C., Buyyounouski, M. K.
2013; 31 (31): 3860-3868
 - **Inflammatory Bowel Disease Is Not an Absolute Contraindication to Definitive Radiation Therapy for Prostate Cancer** *55th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Murphy, C., Ruth, K. J., Buyyounouski, M. K., Heller, S., Weinberg, D., Uzzo, R., Plimack, E., Kutikov, A., Chen, D. Y., Horwitz, E. M.
ELSEVIER SCIENCE INC.2013: S356–S356
 - **CT-MRI Fusion Uncertainty in Prostate Treatment Planning for Different Image Guidance Techniques** *55th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Chen, X., Xue, J., Chen, L., Buyyounouski, M. K., Horwitz, E. M., Wang, L., Ma, C.
ELSEVIER SCIENCE INC.2013: S718–S718
 - **Toxicity and Biochemical Failure Following Image-Guided Prostate Intensity Modulated Radiation Therapy: Fiducial Markers Versus Electromagnetic Transponders** *55th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Chang, L., Li, T., Horwitz, E., Chen, D. Y., Viterbo, R., Kutikov, A., Greenberg, R., Buyyounouski, M. K.
ELSEVIER SCIENCE INC.2013: S368–S369
 - **Improved Outcomes in Men Treated With Adjuvant or Early Salvage Postprostatectomy IMRT or 3DCRT at a Single Institution** *55th Annual Meeting of the American-Society-for-Radiation-Oncology (ASTRO)*
Murphy, C., Uzzo, R. G., Ruth, K. J., Viterbo, R., Plimack, E., Buyyounouski, M. K., Kutikov, A., Chen, D. Y., Greenberg, R. E.
ELSEVIER SCIENCE INC.2013: S378–S378
 - **Transurethral surgery and twice-daily radiation plus paclitaxel-cisplatin or fluorouracil-cisplatin with selective bladder preservation and adjuvant chemotherapy for patients with muscle invasive bladder cancer (RTOG 0233): a randomised multicentre phase 2 trial** *LANCET ONCOLOGY*
Mitin, T., Hunt, D., Shipley, W. U., Kaufman, D. S., Uzzo, R., Wu, C., Buyyounouski, M. K., Sandler, H., Zietman, A. L.
2013; 14 (9): 863-872
 - **Stratifying intermediate-risk patients for radiotherapy** *NATURE REVIEWS UROLOGY*
Buyyounouski, M. K.
2013; 10 (8): 438-439
 - **Reduction of prostate intrafractional motion from shortening the treatment time** *PHYSICS IN MEDICINE AND BIOLOGY*
Li, J. S., Lin, M., Buyyounouski, M. K., Horwitz, E. M., Ma, C.
2013; 58 (14): 4921-4932
 - **A Novel Method for Predicting Late Genitourinary Toxicity After Prostate Radiation Therapy and the Need for Age-Based Risk-Adapted Dose Constraints** *INTERNATIONAL JOURNAL OF RADIATION ONCOLOGY BIOLOGY PHYSICS*
Ahmed, A. A., Egleston, B., Alcantara, P., Li, L., Pollack, A., Horwitz, E. M., Buyyounouski, M. K.
2013; 86 (4): 709-715
 - **Gleason Scoring at a Comprehensive Cancer Center: What's The Difference?** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*
Townsend, N. C., Ruth, K., Al-Saleem, T., Horwitz, E. M., Sobczak, M., Uzzo, R. G., Viterbo, R., Buyyounouski, M. K.
2013; 11 (7): 812-819
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