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Professor of Radiation Oncology (Radiation Therapy)
Radiation Oncology - Radiation Therapy

CLINICAL OFFICE (PRIMARY)

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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 - University Medical Line, Radiation Oncology - Radiation Therapy
- Member, Bio-X
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Inclusion, Diversity, Health Equity, Radiation Oncology, (2021-2023)
- Director, Clinical Operations, Radiation Oncology, (2015-2016)
- Director, Billing, Radiation Oncology, (2014-2021)
- Director, Genitourinary Cancers, Radiation Oncology, (2013- present)

HONORS AND AWARDS

- America's Best Prostate Cancer Oncologists 2024, Newsweek (2024)
- Fellow, American Society for Radiation Oncology (ASTRO) (2022)

- Castle Connolly Top Doc - 10 years, Castle Connolly (2014-2024)
- RSNA Seed Grant, Radiological Society of North America Roentgen (RSNA) (2008)
- Travel Grant to attend National Cancer Institute Radiation Research Program, American Society for Radiation Oncology (ASTRO) (2005)
- Roentgen Resident/Fellow Research Award, Radiological Society of North America Roentgen (RSNA) (2003, 2005)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Radiation Oncology (ASTRO) Health Policy Committee (2007 - 2019)
- Member, American Board of Radiology (ABR) Genitourinary Committee for Exams (2009 - 2021)
- Member, American Brachytherapy Society (ABS) Board of Directors (2010 - 2013)
- Member, National Comprehensive Cancer Committee (NCCN) Guideline Committee (2010 - present)
- Member, American Joint Cancer Committee (AJCC) Cancer Staging Expert Panel (2014 - present)

PROFESSIONAL EDUCATION

- Medical Education: New Jersey Medical School UMDNJ (2000) NJ
- Internship: Saint Barnabas Medical Center (2001) 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

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Patient-centered and artificial intelligence-augmented medical decision making

CLINICAL TRIALS

- High-Dose Brachytherapy in Treating Patients With Prostate Cancer, Not 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
- Stereotactic Body Radiation Therapy or Intensity-Modulated Radiation Therapy in Treating Patients With Stage IIA-B Prostate Cancer, Not Recruiting
- Surgery With or Without Postoperative Intensity Modulated Radiation Therapy in Treating Patients With Urothelial Bladder Cancer, Not Recruiting

PROJECTS

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

Publications

PUBLICATIONS

- **Noninferiority of Hypofractionated vs Conventional Postprostatectomy Radiotherapy for Genitourinary and Gastrointestinal Symptoms: The NRG-GU003 Phase 3 Randomized Clinical Trial.** *JAMA oncology*
Buyyounouski, M. K., Pugh, S. L., Chen, R. C., Mann, M. J., Kudchadker, R. J., Konski, A. A., Mian, O. Y., Michalski, J. M., Vigneault, E., Valicenti, R. K., Barkati, M., Lawton, C. A., Potters, et al

2024

- **Salvage Therapy for Prostate Cancer: AUA/ASTRO/SUO Guideline Part I: Introduction and Treatment Decision-Making at the Time of Suspected Biochemical Recurrence after Radical Prostatectomy.** *The Journal of urology*
Morgan, T. M., Boorjian, S. A., Buyyounouski, M. K., Chapin, B. F., Chen, D. Y., Cheng, H. H., Chou, R., Jacene, H. A., Kamran, S. C., Kim, S. K., Kirkby, E., Luckenbaugh, A. N., Nathanson, et al
2024: 101097JU00000000000003892
- **Salvage Therapy for Prostate Cancer: AUA/ASTRO/SUO Guideline Part III: Salvage Therapy After Radiotherapy or Focal Therapy, Pelvic Nodal Recurrence and Oligometastasis, and Future Directions.** *The Journal of urology*
Morgan, T. M., Boorjian, S. A., Buyyounouski, M. K., Chapin, B. F., Chen, D. Y., Cheng, H. H., Chou, R., Jacene, H. A., Kamran, S. C., Kim, S. K., Kirkby, E., Luckenbaugh, A. N., Nathanson, et al
2024: 101097JU00000000000003890
- **Salvage Therapy for Prostate Cancer: AUA/ASTRO/SUO Guideline Part II: Treatment Delivery for Non-metastatic Biochemical Recurrence After Primary Radical Prostatectomy.** *The Journal of urology*
Morgan, T. M., Boorjian, S. A., Buyyounouski, M. K., Chapin, B. F., Chen, D. Y., Cheng, H. H., Chou, R., Jacene, H. A., Kamran, S. C., Kim, S. K., Kirkby, E., Luckenbaugh, A. N., Nathanson, et al
2024: 101097JU00000000000003891
- **Long Term Results of a Phase III Randomized Prospective Trial of Erectile Tissue Sparing IMRT for Men with Clinically Localized Prostate Cancer.** *International journal of radiation oncology, biology, physics*
Zhang, E., Ruth, K. J., Buyyounouski, M. K., Price, R. A., Uzzo, R. G., Sobczak, M. L., Pollack, A., Wong, J. K., Chen, D. Y., Hallman, M. A., Greenberg, R. E., Watkins-Bruner, D., Al-Saleem, et al
2022
- **SALVAGE PROSTATE BRACHYTHERAPY IN RADIORECURRENT PROSTATE CANCER: AN INTERNATIONAL DELPHI CONSENSUS STUDY**
Morton, G., Chung, H. T., Corkum, M. T., Buyyounouski, M., Chang, A., Chung, P., Cox, B., Crook, J., Davis, B., Frank, S., Henriquez, I., Horwitz, E., Hoskin, et al
ELSEVIER IRELAND LTD.2022: S44-S45
- **A personalized decision aid for prostate cancer shared decision making.** *BMC medical informatics and decision making*
Bagshaw, H. P., Martinez, A., Heidari, N., Scheinker, D., Pollack, A., Stoyanova, R., Horwitz, E., Morton, G., Kishan, A. U., Buyyounouski, M. K.
1800; 21 (1): 374
- **MR to Ultrasound Image Registration with Segmentation-Based Learning for HDR Prostate Brachytherapy**
Chen, Y., Xing, L., Yu, L., Liu, W., Fahimian, B., Niedermayr, T., Bagshaw, H., Buyyounouski, M., Han, B.
WILEY.2021
- **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
- **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
- **Salvage Prostate Brachytherapy in Radiorecurrent Prostate Cancer: An International Delphi Consensus Study.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Corkum, M. T., Buyyounouski, M. K., Chang, A. J., Chung, H. T., Chung, P., Cox, B. W., Crook, J. M., Davis, B. J., Frank, S. J., Henriquez, I., Horwitz, E. M., Hoskin, P., Hsu, et al
2023: 109672
- **Syndrome of inappropriate secretion of antidiuretic hormone following high dose rate brachytherapy for prostate cancer: a case report.** *BMC urology*
Ayoola, A., Sodji, Q. H., Chin, S., Panousis, P., Bagshaw, H. P., Buyyounouski, M. K.
2022; 22 (1): 32
- **NCCN Guidelines Insights: Bladder Cancer, Version 2.2022.** *Journal of the National Comprehensive Cancer Network : JNCCN*

Flaig, T. W., Spiess, P. E., Abern, M., Agarwal, N., Bangs, R., Boorjian, S. A., Buyyounouski, M. K., Chan, K., Chang, S., Friedlander, T., Greenberg, R. E., Guru, K. A., Herr, et al
2022; 20 (8): 866-878

- **Toxicity After Stereotactic Body Radiation Therapy for Prostate Cancer in Patients With Inflammatory Bowel Disease: A Multi-institutional Matched Case-Control Series.** *Advances in radiation oncology*
Juarez, J. E., Romero, T., Mantz, C. A., Pepin, A., Aghdam, N., Suy, S., Steinberg, M. L., Levin-Epstein, R. G., Nickols, N. G., Kaplan, I. D., Meier, R. M., Pham, H. T., Linson, et al
2021; 6 (6): 100759
- **Automated Contour Propagation of the Prostate From pCT to CBCT Images via Deep Unsupervised Learning**
Liang, X., Bibault, J. E., Leroy, T., Escande, A., Zhao, W., Chen, Y., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H. P., Xing, L.
ELSEVIER SCIENCE INC.2021: E95
- **Development and Validation of an Interpretable Artificial Intelligence Model to Predict 10-Year Prostate Cancer Mortality** *CANCERS*
Bibault, J., Hancock, S., Buyyounouski, M. K., Bagshaw, H., Leppert, J. T., Liao, J. C., Xing, L.
2021; 13 (12)
- **PSMA- and GRPR-targeted PET: Results from 50 Patients with Biochemically Recurrent Prostate Cancer.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*
Baratto, L., Song, H., Duan, H., Hatami, N., Bagshaw, H., Buyyounouski, M., Hancock, S., Shah, S. A., Srinivas, S., Swift, P., Moradi, F., Davidzon, G. A., Jagaru, et al
2021
- **Automated Contour Propagation of the Prostate From pCT to CBCT Images Via Deep Unsupervised Learning.** *Medical physics*
Liang, X., Bibault, J., Leroy, T., Escande, A., Zhao, W., Chen, Y., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H., Xing, L.
2021
- **MR to ultrasound image registration with segmentation-based learning for HDR prostate brachytherapy.** *Medical physics*
Chen, Y. n., Xing, L. n., Yu, L. n., Liu, W. n., Fahimian, B. P., Niedermayr, T. n., Bagshaw, H. P., Buyyounouski, M. n., Han, B. n.
2021
- **Refining the Definition of Biochemical Failure in the Era of Stereotactic Body Radiation Therapy for Prostate Cancer: the Phoenix Definition and Beyond.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Martin Ma, T., Roy, S., Wu, X., Mantz, C., Fuller, D., Miszczyk, L., Napieralska, A., Namysl-Kaletka, A., Bagshaw, H. P., Buyyounouski, M. K., Glicksman, R., Andrew Loblaw, D., Katz, et al
2021
- **Dose-Response with Stereotactic Body Radiotherapy for Prostate Cancer: A Multi-Institutional Analysis of Prostate-Specific Antigen Kinetics and Biochemical Control.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Levin-Epstein, R. G., Jiang, N. Y., Wang, X., Upadhyaya, S. K., Collins, S. P., Suy, S., Aghdam, N., Mantz, C., Katz, A. J., Miszczyk, L., Napieralska, A., Namysl-Kaletka, A., Prionas, et al
2020
- **Prostate-specific antigen kinetics and biochemical control following stereotactic body radiation therapy, high dose rate brachytherapy, and low dose rate brachytherapy: A multi-institutional analysis of 3,502 patients.** *Radiotherapy and oncology : journal of the European Society for Therapeutic Radiology and Oncology*
Levin-Epstein, R., Cook, R. R., Wong, J. K., Stock, R. G., Jeffrey Demanes, D., Collins, S. P., Aghdam, N., Suy, S., Mantz, C., Katz, A. J., Nickols, N. G., Miszczyk, L., Napieralska, et al
2020
- **Deep learning applications in automatic needle segmentation in ultrasound-guided prostate brachytherapy.** *Medical physics*
Wang, F., Xing, L., Bagshaw, H., Buyyounouski, M., Han, B.
2020
- **Automatic intraprostatic lesion segmentation in multiparametric magnetic resonance images with proposed multiple branch Unet.** *Medical physics*
Chen, Y. n., Xing, L. n., Yu, L. n., Bagshaw, H. P., Buyyounouski, M. K., Han, B. n.
2020
- **Bladder Cancer, Version 3.2020, NCCN Clinical Practice Guidelines in Oncology.** *Journal of the National Comprehensive Cancer Network : JNCCN*
Flaig, T. W., Spiess, P. E., Agarwal, N. n., Bangs, R. n., Boorjian, S. A., Buyyounouski, M. K., Chang, S. n., Downs, T. M., Efstathiou, J. A., Friedlander, T. n., Greenberg, R. E., Guru, K. A., Guzzo, et al

2020; 18 (3): 329–54

- **A Deep Learning Framework for Prostate Localization in Cone Beam CT Guided Radiotherapy.** *Medical physics*
Liang, X. n., Zhao, W. n., Hristov, D. H., Buyyounouski, M. K., Hancock, S. L., Bagshaw, H. n., Zhang, Q. n., Xie, Y. n., Xing, L. n.
2020
- **NRG Oncology Updated International Consensus Atlas on Pelvic Lymph Node Volumes for Intact and Post-Operative Prostate Cancer.** *International journal of radiation oncology, biology, physics*
Hall, W. A., Paulson, E. n., Davis, B. J., Spratt, D. E., Morgan, T. M., Dearnaley, D. n., Tree, A. C., Efstathiou, J. A., Harisinghani, M. n., Jani, A. B., Buyyounouski, M. K., Pisansky, T. M., Tran, et al
2020
- **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
- **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; 64 (12)
- **Dose Distribution Prediction in Isodose Feature-Preserving Voxelize 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
- **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

- **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 SEGMENTATION WITH ENCODER -DECODER DENSELY CONNECT CONVOLUTIONAL NETWORK (ED-DENSENET)**
Yuan, Y., Qin, W., Guo, X., Buyyounouski, M., Hancock, S., Hai, B., Xing, L., IEEE
IEEE.2019: 434–37
- **Results from a Phase 1 Study of Sodium Selenite in Combination with Palliative Radiation Therapy in Patients with Metastatic Cancer.** *Translational oncology*
Knox, S. J., Jayachandran, P. n., Keeling, C. A., Stevens, K. J., Sandhu, N. n., Stamps-DeAnda, S. L., Savic, R. n., Shura, L. n., Buyyounouski, M. K., Grimes, K. n.
2019; 12 (11): 1525–31
- **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
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- **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 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
- **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
- **Radiation therapy for prostate cancer.** *Translational andrology and urology*
Buyyounouski, M. K.
2018; 7 (3): 295-296
 - **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
 - **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
 - **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
 - **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)
 - **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
 - **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
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