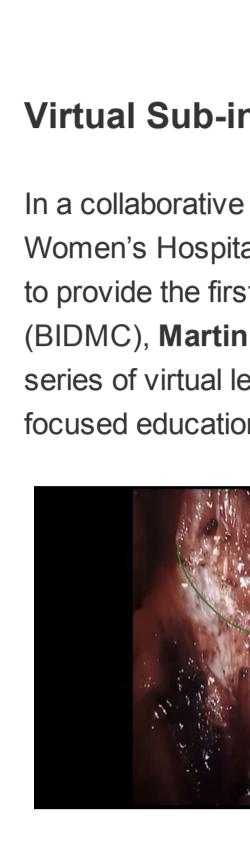


Division of Urologic Surgery

Summer 2020

Message from the Chief



Despite the pandemic, we remained true to our mission of providing exceptional clinical care, outstanding education and advanced our knowledge to help our patients. Many new innovative programs have evolved with coordinated teamwork amongst our administrative staff, advanced practice providers, medical students, residents, fellows and faculty.

- **Aria F. Olumi, MD**

What's New in Education?

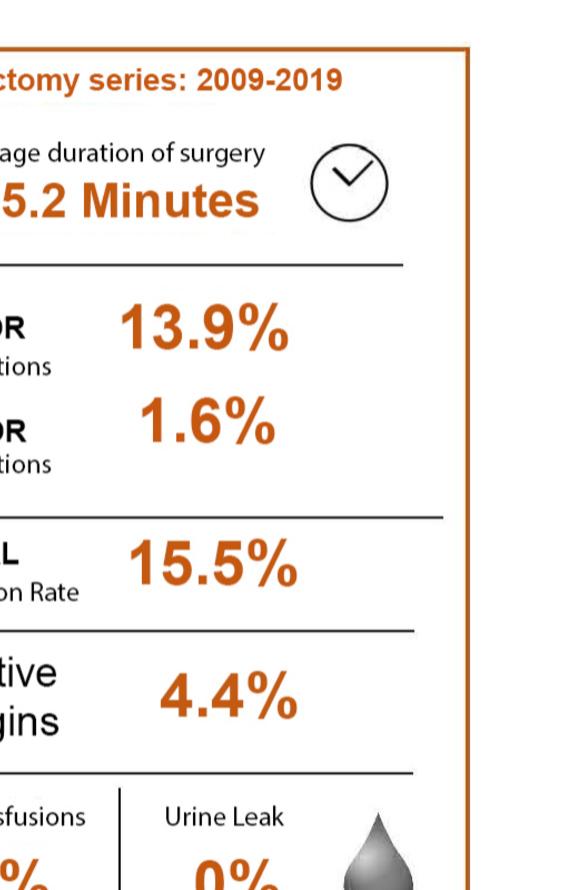
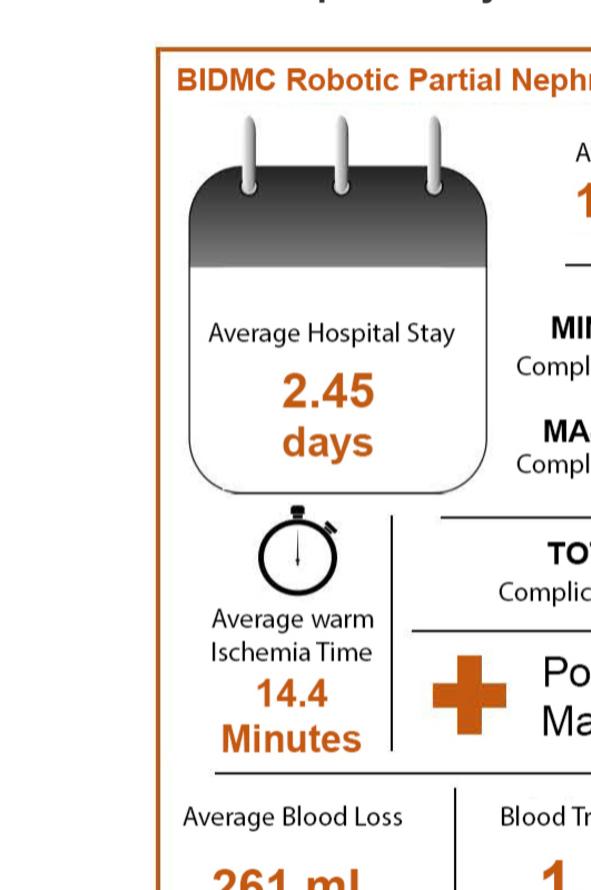
Visiting Professor



After many months of planning, **Dr. Angela Smith's** Visiting Professorship was transformed into a virtual event. We all became more nimble with Zoom teleconferencing, and Dr. Smith delivered outstanding lectures on patient advocacy for management of bladder cancer patients. In addition, sharing her success in time management, Dr. Smith delivered another engaging talk on email efficiency and time management, which was extremely well received. Although we were disappointed that the visit could not occur in person, we had a productive exchange of ideas and scientific knowledge.

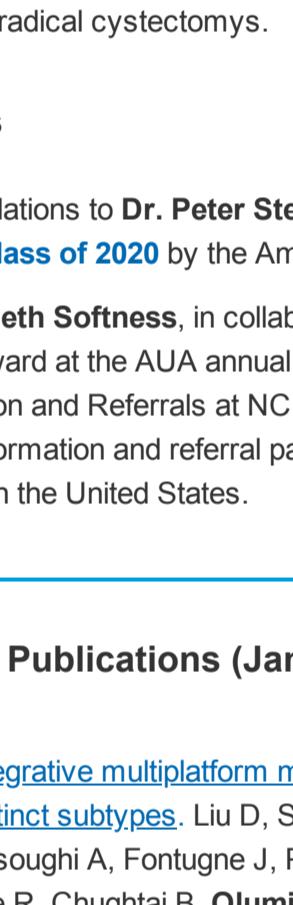
Virtual Sub-internship in Urology for Harvard Medical School Students

In a collaborative effort between Beth Israel Deaconess Medical Center, Brigham and Women's Hospital and Massachusetts General Hospital, the urology educators came together to provide the first urology sub-internship across Harvard Medical School. **Drs. Rus Korets** (BIDMC), **Martin Kathrins** (BWH), and **Ajay Singla** (MGH) coordinated a comprehensive series of virtual lectures, operative tours and telehealth visits to provide HMS students urology focused educational activities.

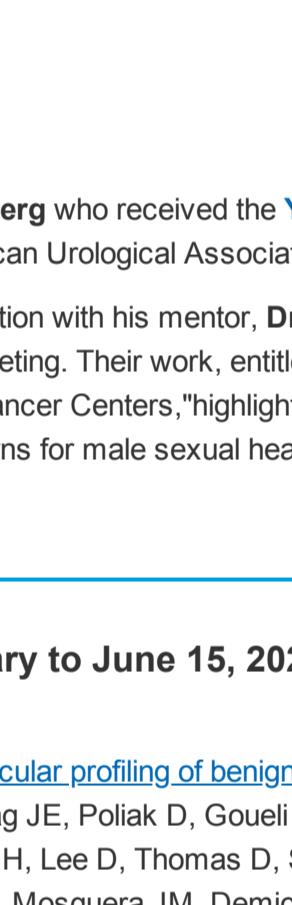


New Fellow and Interns

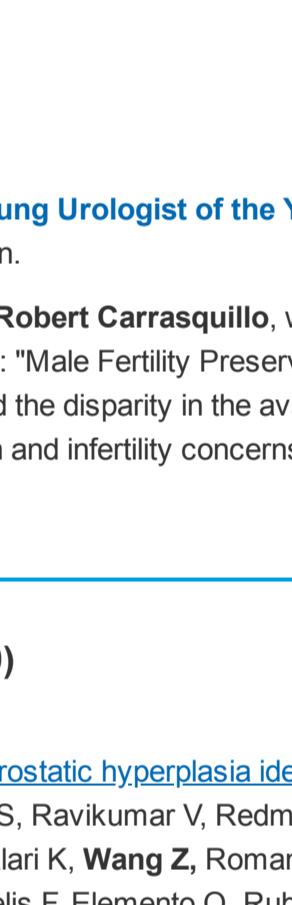
We welcome our incoming minimally invasive surgery fellow and two urology interns. **Dr. David Jiang**, who earned his medical degree from Georgetown University, joins us after completing his urology residency at Oregon Health & Sciences University. At BIDMC, he will focus on advancing his minimally invasive urologic surgical skills under the direction of Dr. Andrew Wagner. **Drs. Alejandro Abello** and **Joseph Black** join our urology residency program after completing a master's in public health degree at Yale University and MD/PhD degrees at University of Florida, respectively.



David Jiang, MD



Alejandro Abello, MD,
MPH

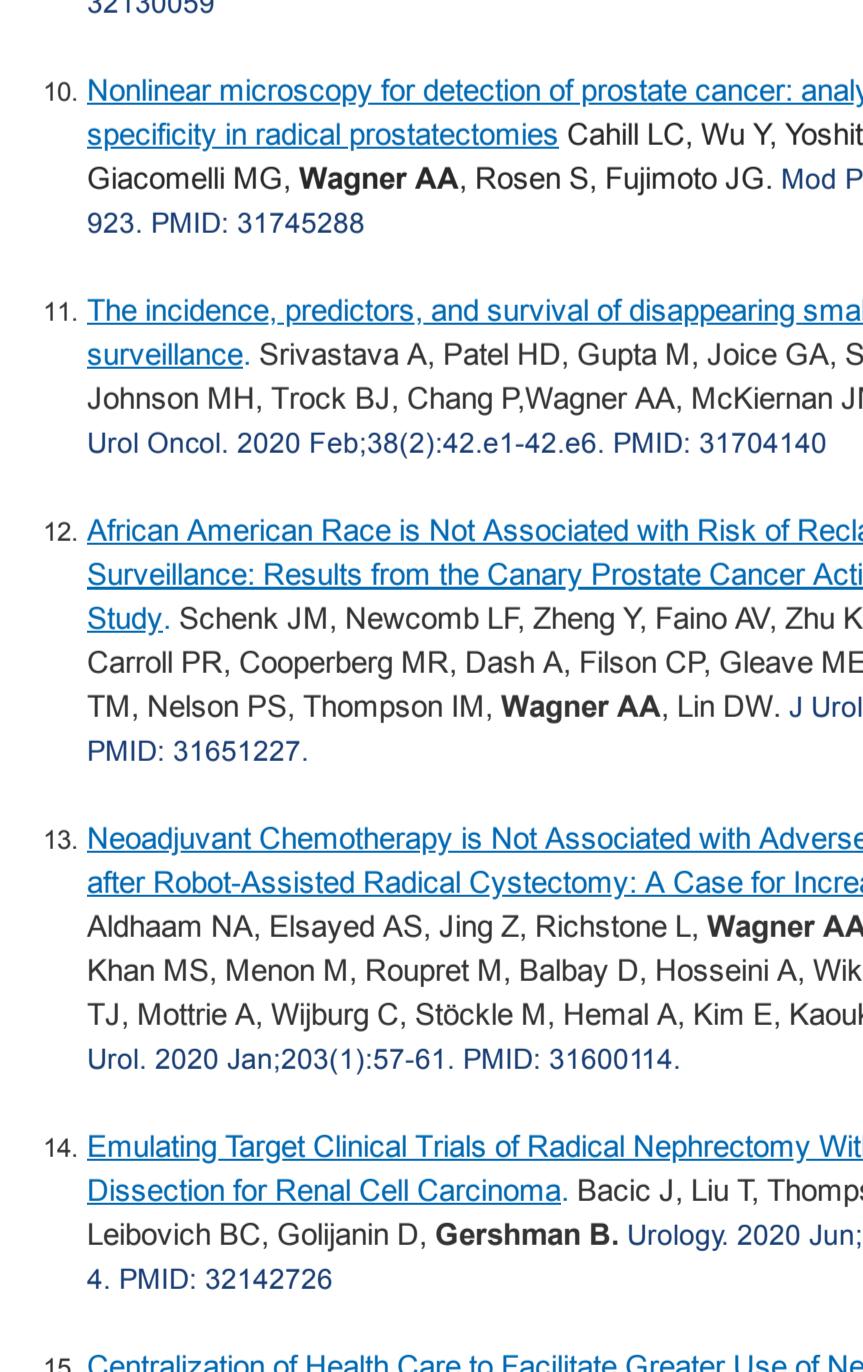


Joseph Black, MD,
PhD

What's New in Practice?

Telehealth

The Urology team at BIDMC has been a leader in providing clinical care through effective and timely telehealth visits. As early adopters, the faculty and resident teams embraced the challenges of telehealth and continue to provide patient-focused services through different telehealth platforms. **Dr. Peter Steinberg** wrote a timely editorial in the *Wall Street Journal* about the adoption of telehealth as a long-term strategy to provide care for our patients. With the help of our clinical research team, we developed HIPPA compliant pre-telehealth visit questionnaires in order to efficiently acquire information about the health of our patients and closely match the in-person experience. Our post-telehealth patient surveys suggest that patients are extremely happy with the timeliness and quality of their telehealth visit interactions.



Robotic Partial Nephrectomy Outcomes at BIDMC

BIDMC Robotic Partial Nephrectomy series: 2009-2019

Average Hospital Stay	2.45 days	Average duration of surgery	185.2 Minutes
MINOR Complications	13.9%	MAJOR Complications	1.6%
TOTAL Complication Rate	15.5%	Positive Margins	4.4%
Average Blood Loss	261 mL	Blood Transfusions	1.1%
Urine Leak	0%		

What's New in Research?

Dr. Aria Olumi received a \$2.1 million NIH/R01 grant to study mechanisms of resistance to 5-alpha reductase inhibitors. The investigators hypothesize that epigenetic regulation of 5-alpha reductase 2 gene leads to changes in hormonal milieu and an androgenic to estrogenic switch in the prostate, a biological condition that can lead to selection of targeted therapies for select patients.

Testosterone



"Androgenic to Estrogenic Switch in Adult Prostates"

Mechanism of Resistance &

Exploration of Alternate Therapies

Dr. Peter Chang received an institutional award to evaluate the utility of intravenous hydration after hospital discharge for patients who have undergone radical cystectomy and urinary diversion for management of advanced bladder cancer. The prospective randomized clinical trial will evaluate whether additional home-IV hydration reduces the short-term complications following radical cystectomys.

Honors

Congratulations to **Dr. Peter Steinberg** who received the **Young Urologist of the Year Award-class of 2020** by the American Urological Association.

Dr. Kenneth Softness, in collaboration with his mentor, **Dr. Robert Carrasquillo**, won best poster award at the AUA annual meeting. Their work, entitled: "Male Fertility Preservation Information and Referrals at NCI-Cancer Centers," highlighted the disparity in the availability of online information and referral patterns for male sexual health and infertility concerns in cancer patients in the United States.

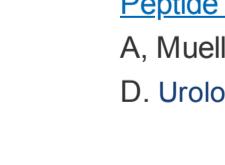
Recent Publications (January to June 15, 2020)

- [Integrative multiplatform molecular profiling of benign prostatic hyperplasia identifies distinct subtypes](#). Liu D, Shoag JE, Pollak D, Goueli RS, Ravikumar V, Redmond D, Vosoughi A, Fontugne J, Pan H, Lee D, Thomas D, Salari K, **Wang Z**, Romanel T, Lee R, Chughtai B, **Olumi AF**, Mosquera JM, Demichelis F, Elemento O, Rubin MA, Sboner A, Barbieri CE. *Nat Commun*. 2020 Apr 24;11(1):1987. doi: 10.1038/s41467-020-15913-6. PMID: 3233283
- [High Real-World Medication Adherence and Durable Clinical Benefit in Medicare Patients Treated with 5-Alpha Reductase Inhibitors for Benign Prostatic Hyperplasia](#). Zhang H, Frendi D, **Wang Z**, **Olumi AF**. *J Urol*. 2020 Mar 13:101097. Online ahead of print. PMID: 32167867
- [Methylation of SRD5A2 promoter predicts a better outcome for castration-resistant prostate cancer patients undergoing androgen deprivation therapy](#). Wang Z, Deng T, Long X, Lin X, Wu S, Wang H, Ge R, Zhang Z, Wu CL, Taplin ME, **Olumi AF**, **Plos One**. 2020 Mar 5;15(3):e0229754. doi: 10.1371/journal.pone.0229754. eCollection 2020. PMID: 32134978
- [Obesity-associated inflammation induces androgenic to estrogenic switch in the prostate gland](#). Xue B, Wu S, Sharkey C, Tabatabaei S, Wu CL, Tao Z, Cheng Z, Strand D, **Olumi AF**, **Wang Z**. *Prostate Cancer Prostatic Dis*. 2020 Feb 6. Online ahead of print. PMID: 32029929
- [A comparative propensity score-matched analysis of perioperative outcomes of intracorporeal vs extracorporeal urinary diversion after robot-assisted radical cystectomy: results from the International Robotic Cystectomy Consortium](#). Hussein AA, Elsayed AS, Aldhaam NA, Jing Z, Peabody JO, Wijburg CJ, **Wagner AA**, Canda AE, Khan MS, Scherr D, Schanne F, Maatman TJ, Kim E, Mottrie A, Aboumohamed A, Gaboardi F, Pini G, Kaouk J, Yuh B, Rha KH, Hemal A, Palou Redorta J, Badani K, Saar M, Stockle M, Richstone L, Roupret M, Balbay D, Dasgupta P, Menon M, Guru KA. *BJU Int*. 2020 Apr 19. Online ahead of print. PMID: 32306494
- [Nonlinear microscopy for detection of prostate cancer: analysis of sensitivity and specificity in radical prostatectomies](#). Cahill LC, Wu Y, Yoshitake T, Ponchiardi C, Giacomelli MG, **Wagner AA**, Rosen S, Fujimoto JG. *Mod Pathol*. 2020 May;33(5):916-923. PMID: 31745288
- [The incidence, predictors, and survival of disappearing small renal masses on active surveillance](#). Srivastava A, Patel HD, Gupta M, Joice GA, Schwenzke Z, Alam R, Gorin MA, Johnson MH, Trock BJ, Chang P, **Wagner AA**, McKiernan JM, Alfallah ME, Pierorazio PM. *Urol Oncol*. 2020 Feb;38(2):42.e1-42.e6. PMID: 31704140
- [African American Race is Not Associated with Risk of Reclassification during Active Surveillance: Results from the Canary Prostate Active Surveillance Study](#). Schenk JM, Newcomb LF, Zheng Y, McKenney JK, Brown MD, Le R, Crager M, Boyer H, Brooks JD, Carroll PR, Cooperberg MR, Ellis WJ, Gleave ME, Martin FM, Morgan T, Nelson PS, Thompson IM, **Wagner AA**, Lin DW. *J Urol*. 2020 Apr 28:101097. Online ahead of print. PMID: 32136059
- [Centralization of Health Care to Facilitate Greater Use of Nephron-Sparing Surgery for Localized Renal Tumors: Identifying Appropriate Health Care Delivery](#). Morrison JC, **Gershman B**, Konety B, Cost N, Kim SP. *Ann Surg Oncol*. 2020 Jun;27(6):1735-1736. PMID: 31974706
- [Clinically node-positive \(cN+\) urothelial carcinoma of the bladder treated with chemotherapy and radical cystectomy: Clinical outcomes and development of a postoperative risk stratification model](#). Al-Alao O, Mueller-Leonhard C, Kim SP, **Gershman B**. *J Robot Surg*. 2020 Mar;34(3):76.e19-76.e28. PMID: 31509068
- [Outcomes of upper tract urothelial carcinoma with isolated lymph node involvement following surgical resection: implications for multi-modal management](#). Pelcovits A, Mueller-Leonhard C, Megalou A, Amin A, Kim SP, Golijanin D, **Gershman B**. *Eur Urol Focus*. 2020 Mar 15;6(2):305-312. PMID: 30361166
- [Ex-vivo Imaging of Upper Tract Urothelial Carcinoma Using Novel pH-Low Insertion Peptide \(Variant 3\), a Molecular Imaging Probe](#). Brito J, Golijanin D, **Gershman B**, Reshetnyak YK, Amin A, Golijanin D. *Urology*. 2020 May;139:134-140. PMID: 30659092
- [The Association of Robot-assisted Versus Pure Laparoscopic Radical Nephrectomy with Perioperative Outcomes and Hospital Costs](#). Gershman B, Bukavina L, Chen Z, Konety B, Schumacher F, Li L, Kutikov A, Smaldone M, Abouassaly R, Kim SP. *Eur Urol Focus*. 2020 Mar 15;6(2):305-312. PMID: 30361166
- [Comparison of Transabdominal and Transrectal Ultrasound for Sizing of the Prostate](#). Pate WR, Garg N, Wang LB, Wason SE, **Barbosa PV**. *Urology*. 2020 Apr 22:S0090-4295(20)30436-2. doi: 10.1016/j.urology.2020.04.054. Online ahead of print. PMID: 32333985
- [Robotic dismembered pyeloplasty surgical simulation using a 3D-printed silicone-based model: development, face validation and crowdsourced learning outcomes assessment](#). Bende RH, Rajender A, **Barbosa PV**, Wason SEL. *J Robot Surg*. 2020 Apr;2:10.1007/s11701-020-01072-9. Online ahead of print. PMID: 32240498
- [Closed suction drain outputs at 12 and 24 hours after primary three-piece inflatable penile prosthesis surgery](#). Apoj M, Rodriguez D, **Barbosa PV**, Pan S, Rajender A, Biebel M, Gross M, Munarriz R. *Int J Impot Res*. 2020 Jan;32(1):117-121. doi: 10.1038/s41443-019-0130-2. PMID: 30886327
- [Advanced sperm testing](#). Softness KA, Trussler JT, **Carrasquillo RJ**. *Curr Opin Urol*. 2020 May;30(3):290-295. doi: 10.1097/MOU.0000000000000761. PMID: 32235275
- [A prospective study of patient reported urinary incontinence among American, Norwegian and Spanish men 1 year after prostatectomy](#). Storås AH, Sanda MG, Garin O, **Chang P**, Patil D, Crociani C, Suarez JF, Cvancarova M, Loge JH, Fosså SD. *Asian J Urol*. 2020 Apr;7(2):161-169. PMID: 32257809
- [Outcomes of upper tract urothelial carcinoma with isolated lymph node involvement following surgical resection: implications for multi-modal management](#). Pelcovits A, Mueller-Leonhard C, Megalou A, Amin A, Kim SP, Golijanin D, **Gershman B**. *World J Urol*. 2020 May;38(5):1243-1252. PMID: 31388818
- [Emulating Target Clinical Trials of Radical Nephrectomy With or Without Lymph Node Dissection for Renal Cell Carcinoma](#). Bacic J, Liu T, Thompson RH, Boorjian SA, Leibovich BC, Golijanin D, **Gershman B**. *Urology*. 2020 Jun;140:98-106. Epub 2020 Mar 4. PMID: 32136498
- [Centralization of Health Care to Facilitate Greater Use of Nephron-Sparing Surgery for Localized Renal Tumors: Identifying Appropriate Health Care Delivery](#). Morrison JC, **Gershman B**, Konety B, Cost N, Kim SP. *Ann Surg Oncol*. 2020 Jun;27(6):1735-1736. PMID: 31974706
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