



ALLINA HEALTH RESEARCH

2022 ANNUAL REPORT

Advancing health outcomes through research

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Allina Health Research is committed to innovative research that advances medicine, improves health, and promotes population health in the communities we serve.

Allina Health researchers and operations staff work diligently to advance research that improves patients’ outcomes, refines models of health care delivery, and emphasizes cutting edge innovations.

Medical research is an integral piece in our complex care mission. With more than 28,000 employees, 6,000 associated and employed physicians, and 11 hospitals, Allina Health System is uniquely positioned to be a regional research hub that advances the future of medicine through evidence-based research.

Allina Health Research is integrated with Allina’s clinical practices, extends across a variety of specialty areas, and is distinguished by its broad scope, volume of clinical trials, population-based research, data and analytics, and diagnostic studies. AHR is structured into a core administrative group that broadly supports all research areas and serves as the backbone to facilitate research operations which are coalesced into four distinct units – neuroscience, rehabilitation, cancer, and care delivery & outcomes/ population health.

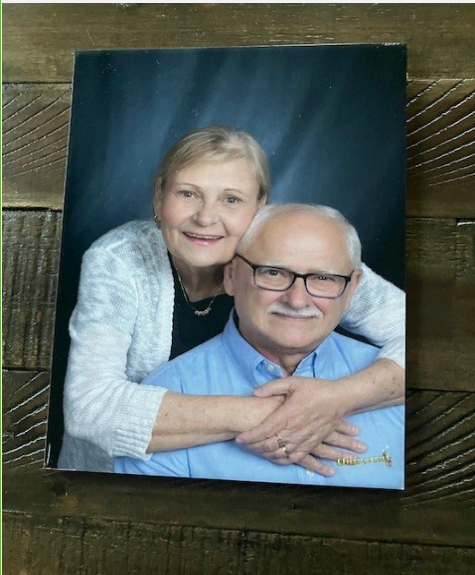
Innovative research partnerships at the local and national levels allow us to build upon the exceptional work of our research teams and provides access to potential life-saving therapeutics not available otherwise. For our providers and scientists, our research provides opportunities to advance care for future generations.

Lessons learned through research impacts how we care for our patients, the treatments we use, and the way our patients live their day-to-day lives. As comprehensive care expands at Allina Health, so too does our commitment to enhancing and expanding our patient-centered research programs. Our nimble and robust research infrastructure continues to serve our community well as we aim to advance complex research questions.

On behalf of the Research team, I invite you to learn more about Allina Health Research through this report on our successes in 2022.

Badrinath Konety, MD, MBA
Chief Academic Officer, Allina Health
President, Allina Health Cancer Institute

Patient Story



On August 11, 2022, Patti Doran was told she had 2-3 months to live. Today, thanks to her enrollment in a compassionate-use research trial with AVM Biotechnology, Patti said “I am living life and I am happy.”

Patti was diagnosed in February 2022 with mixed-phenotype acute leukemia, meaning she had malignant cells that were behaving like Acute Lymphocytic Leukemia (ALL) and Acute Myeloid Leukemia (AML). Given the mixed-phenotype diagnosis, it is difficult to treat her condition. Chemotherapy that works well for AML may not work well for ALL and vice-versa. Patti underwent four different lines of chemotherapy, with the hope of remission leading to a stem-cell transplant at the University of Minnesota (U of M).

In August of 2022, after her fourth line of chemotherapy failed, Patti was told that she only had a few months left to live. Patti acknowledges that her quality of life was quite low, she had lost her ability to taste, had terrible fatigue, and she was surviving on three high protein drinks a day.

When Patti was first diagnosed in February, two friends--who did not know each other--brought the AVM0703-001 or “OPAL” trial to her attention. At the time, she was too overwhelmed to pursue this. However, after her fourth line of chemotherapy failed to get her into remission, Patti called AVM Biotechnology to see if she could enroll in the Opal clinical trial and brought the information to her Hematologist, Dr. Fiona He at Allina Health Cancer Institute (AHCI).

Dr. Fiona He, spoke with AVM Biotechnology, and she encouraged Patti to move forward with compassionate use of AVM0703 since the OPAL clinical trial is intended for participants who have not responded to prior therapies. Dr. He said, “participating in clinical trials may be the most promising option for cancer patients. Clinical trial participation is critical to speeding the development and approval of new drugs for future patients.”

Patti received her first infusion of AVM0703, the drug provided by AVM Biotechnology in this study. AVM0703 is a first in class small molecule treatment based off an already approved treatment. The previously approved drug is highly purified and given in a very highly concentrated form. AVM0703 is designed to trigger the production of healthy disease fighting cells called Natural Killer T cells which help your body destroy the cancer cells naturally.

Sarah Pederson, Director of Clinical Research at AHCI, noted that “expanded access, also known as compassionate use, is a potential pathway for patients to gain access to investigational or off-label drug outside of clinical trials when no comparable or satisfactory alternative therapy options are available.”

Since starting the treatment, Patti said her quality of life has changed drastically. She is doing all the things she used to do but does acknowledge she still has some fatigue. Today she is spending time with her four living children and her 13 grandchildren regularly, including caring for some of the littlest grandchildren one or two days a week. She is walking up to 30-minutes a day, something that would have been unheard of a year ago, and she is eagerly awaiting the birth of her 14th and 15th grandchildren later this year. Patti said, “You can take me when you want, Lord, but I’d really love to see these next two grandbabies.”

Patti said her ability to enroll in this trial is a true gift from AVM for which she is so grateful, noting that it has made her put things in perspective. “I don’t look at yesterday and I don’t look at tomorrow. I just give thanks to the Lord for today,” Patti said.

Areas of Research at Allina Health

Allina Health considers research an essential component of its mission of supporting its patients, families, and the communities we serve. The institutional investment in research helps provide the infrastructure required to advance system-wide research in partnership with our clinical service lines and extramural partners. This allows for a robust research portfolio of investigator-initiated studies (grant-funded and unfunded), and studies sponsored through government, academic, and industry initiatives. Our research partnerships are described here. The structure aligns with and supports the strategic mission of the Allina Health Clinical Service Lines.



Areas of Research at Allina Health

Cancer Research

Allina Health Cancer Institute (AHCI) conducts high quality, cutting edge clinical trials for patients with or at risk for cancer. We offer our patients the opportunity to participate in promising new treatments within their own hospital or clinic setting. Innovative partnerships allow us to build upon the exceptional work of our research team. Medical research is an integral piece in our mission to improve the well-being of those we serve. Our providers-scientists contribute to the advancement of oncology care through public forums and interviews, presentations at scientific conferences, and publications of our study results in professional journals.

Care Delivery Research

Allina Health Care Delivery Research (CDR) advances practice-based research through partnerships with clinical service lines and provider teams across Allina Health. We create, design, evaluate, implement, and disseminate research focused on improving care delivery. These partnerships include Critical Care and Hospitalist research programs at our Abbott Northwestern Hospital, system-wide Emergency Medical Services (EMS), and Allina Health's Mother Baby Center research team.



Infectious Disease Research

Through interdisciplinary collaboration with other departments and organizations, we explore new possibilities for the treatment and prevention of infectious diseases. Our research on COVID-19, Lyme disease, influenza, septicemia, Respiratory Syncytial Virus (RSV), Human Immunodeficiency Virus (HIV) and Hepatitis B/C has resulted in better infectious disease management. Our investigators' impassioned research and lectures in these areas encompass clinical initiatives here at home and philanthropic efforts abroad.

Neuroscience Research

Research, patient care, and education are pivotal components of Allina Health's Neuroscience, Spine, and Pain Institute. Our provider-investigators specialize in a wide range of clinical areas including neuro-oncology, neuropathology, neuroradiology, neurophysiology, and stroke care. We continually strive to apply the discoveries made from our research projects toward improvements in patient care. We bring what we learn from patients back to the research team to enhance our understanding of neuroscience. This bench-to-bedside approach allows us to move discoveries more quickly into the patient care setting while helping researchers refine therapies and techniques based on clinical observations.



Nursing Research

Our mission is to support the delivery of optimal patient care for Allina Health patients through clinical inquiry, and the integration of new discoveries into clinical practice. Our investigator-initiated nursing research targets clinical phenomenon that influence patient safety, nursing satisfaction and quality of life. By exploring and addressing issues from an individual, family, professional, system and environment perspectives; nursing research provides a unique contribution to the discovery and integration of advances in patient care.



Areas of Research at Allina Health

Rehabilitation Research

Allina Health's Courage Kenny Research Institute provides groundbreaking research and advocacy for children and adults who have experienced injury or have disabilities. The high-quality studies conducted by our experienced researchers create genuine progress for rehabilitation for spinal cord injury, cancer, brain injury and more. Through research and innovation, we support Allina's goal of meeting the changing needs of people in the community who are living with acute or chronic disability through rehabilitation research that optimizes rehabilitation outcomes and full societal participation.

Sports & Orthopedics Research

Allina Health Orthopedics is active in the orthopedic and sports medicine research field. Through research and passionate involvement in the orthopedic community, our investigators have made great strides improving the treatment and health of our patients. Our efforts are made possible through dedicated research and patient-driven health. We are always eager to advance the possibilities within the sports and orthopedic community.

Mental Health & Addiction Research

Our mental health and addiction research team works closely with care providers to bring innovative treatment tools and advanced models of care to our providers and patients. Our objective supports Allina Health's goal of providing whole person care for our patients, families, staff, and the communities we serve. Our efforts address a critical health need in our society. Half of all Americans will experience a mental health condition during their lifetime and about 20 million Americans experience an addiction every year. In addition, about a third of those with a substance use disorder also have a mental health condition.



Cardiovascular

Our cardiovascular research, in partnership with Minneapolis Heart Institute Foundation (MHIF), exists to drive new discoveries and education activities that address clinical needs and gaps that exist in health care. The work of MHIF in this specialty area adds a depth of effort and investment that goes beyond clinical studies, working to improve patient care in ways that will challenge the standard. Our research offers hope for current patients and opportunities to make a difference for future patients. We explore every area of cardiovascular care.

<https://www.mplsheart.org/>



Research by the Numbers

Research Portfolio

72
Academic Presentations & Abstracts

386
Publications (including MHIF & TCSPINE)

2
Book Chapters

89
Media & Other Presentations

\$2,744,000
Grant Funding Awards

189
Active Studies

5,444
Active Enrollments

59
Active Grants

\$4,851,000
Grant Funding Revenue

Cancer

Active Studies	41
Enrollment	150
Publications	31
Academic Presentations and abstracts	8
Media Presentations	2
Active Grants	4
Grant Funding	\$151,000
Grant Revenue	\$1,800,000

Care Delivery Research

Active Studies	54
Enrollment	1,812
Publications	29
Academic Presentations and abstracts	17
Media Presentations	11
Active Grants	14
Grant Funding	\$169,000
Grant Revenue	\$295,000

Clinical Research Informatics & Analytics

Active Studies	12
Enrollment	5
Active Grants	18
Grant Funding	\$179,000
Grant Revenue	\$376,000

Research by the Numbers

Infectious Diseases

Active Studies	3
Enrollment	24
Publications	2
Media	31
Presentations	
Grant Revenue	\$655,000

Mental Health & Addiction

Active Studies	4
Enrollment	2,018
Active Grants	4
Grant Funding	\$1,835,000
Grant Revenue	\$661,000

Orthopedics

Active Studies	14
Enrollment	51
Pubs/Book Chapters	4
Academic	4
Presentations and abstracts	
Media	39
Presentations	
Active Grants	2
Grant Funding	\$73,000
Grant Revenue	\$32,000

Rehabilitation

Active Studies	16
Enrollment	737
Publications	12
Academic	15
Presentations and abstracts	
Media	6
Presentations	
Active Grants	10
Grant Funding	\$277,000
Grant Revenue	\$557,000

Neuroscience

Active Studies	40
Enrollment	286
Publications	21
Academic	18
Presentations and abstracts	
Active Grants	7
Grant Funding	\$60,000
Grant Revenue	\$475,000

Nursing

Active Studies	5
Enrollment	361
Publications	5
Academic	10
Presentations and abstracts	
New Awards (\$)	\$8,546
Actual Revenue (\$)	\$76,247

Key Accomplishments

Care Delivery Research

Hospitalist, Critical Care, Medical Education
The Critical Care/Medical Education/Hospitalist Research Program and Allina Health Care Delivery Research team collaborated with the Society of Critical Care Medicine (SCCM) through participation in a multinational registry of hospitalized COVID-19 patients. Allina was one of the largest data contributors to this registry contributing data for 2,536 patients. This has resulted in 8 publications with Allina-contributed data in 2022.

Mother Baby Research

The Mother Baby research team completed five years of participation in the prospective universal screening study for congenital cytomegalovirus (cCMV) in partnership with the Centers for Disease Control, the Minnesota Department of Health, and the University of Minnesota.

EMS Research (Prehospital)

Employee wellbeing was a key topic of focus in 2022 for the research team supporting emergency medical services (EMS). As part of an ongoing research study, investigators conducted a survey among Allina EMS clinicians that revealed 50% of Allina's paramedics and EMTs, and 70% of its 911 medical dispatchers are experiencing occupational burnout.

Preliminary results from the retrospective EMS vehicle design and safety study, as well as, work on mental health-related EMS calls during the COVID-19 pandemic were presented at the 2022 National Association of EMS Physicians annual scientific sessions.

Emergency Medicine

Emergency Medicine research focused on exploring potential racial disparities in care with two separate grants. The first of the publications from these grants was published in the American Journal of Emergency Medicine which examines disparities in care associated with a rapid-triage system.

Population Health

Care Delivery Research staff members collaborated with Community Benefit and Engagement team members to evaluate the Allina's Accountable Health Communities program focused on identifying health related social needs and providing navigation services.

Allina Health Cancer Institute



AHCI research officially expanded to the Allina Health Cancer Institute St. Paul campus located at United Hospital. This expansion builds on Allina Health's mission to grow a regionally differentiated cancer program focused on redefining how cancer care is delivered by providing comprehensive, expert, person-centric cancer care from diagnosis to survivorship.

AHCI Research joined the Guardian Research Network® (GRN), a nationwide, non-profit, research healthcare network focused on advancing technology to accelerate cures for life-threatening diseases such as cancer. The relationship is part of Allina Health's commitment to expand its research program to grow translational research, linking research with clinical activities. Translational research uses observations from trial science and patient studies to learn more about a disease, uncover powerful treatment alternatives, and move targeted therapy forward.

Nursing

Received funding on the research proposal, "Health Care Worker Needs during and after the COVID-19 Pandemic: Creating a Recovery Plan". Received Foundation funding for two other nurse-led research studies; 1) Fall Risk Prediction in the Acute Rehab Setting and 2) An Interprofessional Deconditioning Prevention Program for the Medically Ill Older Adult: A feasibility study."

Key Accomplishments

Neuroscience Institute

Five new studies were opened, 3 clinical trials and 2 investigator-initiated projects. 30 studies were active across all Neuroscience sections. Department Standard Operating Procedures were reviewed and updated, and new staff onboarding procedures were developed. \$43,000 in Allina Health Foundation grant funding was awarded to the Neuroscience Research Program.

Rehabilitation Research

Initiated two novel partnerships to grow research in the department. The first was the inception of a Research Therapist role that allows Courage Kenny Rehabilitation Institute therapists the opportunity to develop research skills and collaborate with department researchers on current and new projects. A second partnership included the addition of contracted researchers from the University of Minnesota and St. Catherine's University to develop new lines of research within the department. The department welcomed new Senior Scientific Advisor, Katy O'Brien, PhD, CCC-SLP from the University of Georgia. Dr. O'Brien brings a well-developed line of research regarding cognitive and communication rehabilitation in patients with traumatic brain injury. Courage Kenny Research Center staff presented research on national and international stages in addition to being actively engaged in dissemination with 12 publications in 2022.

Infectious Diseases

Infectious Disease Research successfully retained more than 200 participants in active follow-up on the ENSEMBLE trial of the Johnson & Johnson COVID-19 vaccine, including intensive follow-up for any participants who developed COVID symptoms. We continued to follow 19 active participants on the NIH sponsored "Randomized Trial to Prevent Vascular Events in HIV (REPRIEVE)", the first large-scale randomized clinical trial to test a strategy for preventing heart disease among people living with HIV; and opened the DiaSorin LIASION LymeDetect study. As a top enrolling site, enrolled 26 participants across a 4-month period.

Mental Health and Addiction Services

With funding awards and partnership with the clinical service line, we established MHAS as a Research House within Allina Health. As the largest provider of MHAS services in Minnesota, the work of a defined research house aligns with the service line's mission by offering new tools, emerging treatments, and research opportunities to our patients locally, and advancing evidence-based practice that is directly applicable to our community. Provided clinical trials of 3 app-based support tools for Allina Health patients experiencing acute suicidality, depression, anxiety, and substance use disorders. With funding from two DHS State Opioid Response Grants, Allina Health Mental Health and Addiction Services expanded the Bridge Clinic and the Virtual Addiction Clinic; MHAS Research staff worked directly with clients on outcomes research, giving patients an opportunity to take part in advancing quality care.

Orthopedics

Orthopedic researchers published journal articles and book chapters, while presenting over 40 times in local, national, and international events. Orthopedic research staff collaborated on additional projects in a variety of research areas including mental health and addition, rehabilitation, and nursing.



Allina Health Research Partners



Creating a world without heart and vascular disease

The Minneapolis Heart Institute Foundation® (MHIF) has delivered lifesaving cardiovascular research and education for more than 40 years. Through a strong partnership with Allina Health Minneapolis Heart Institute physicians, MHIF conducts research of new drugs, technologies and procedures, providing hope to patients and families around the world and across all areas of cardiovascular care and medicine.

2022 Research & Education highlights

- 3,000+ visits with patients who have hope and options through research
- 350+ new patients enrolled in research; 220+ active studies with 2200+ patients at any given time
- Expanded MHIF research to United Hospital; welcomed new physician partners and reached new patients with research options
- Expanded the MHIF community through first annual *Heart360 Concert for World-Class Heart Research!*
- Launched a suite of MHIF digital applications sharing clinical insights in heart valve and coronary artery disease that received 34,000+ downloads
- Received \$5 million transformational gift to name the Joseph F. Novogratz Family Heart Rhythm Center
- Formed new relationships in the community to contribute change around health equity and access to care
- 500+ record high of publications, abstracts, podium presentations and invited talks at international conferences
- 8 MHIF International Scholars contributed to advancing research
- 11,000+ hours of professional and community education each year reaching 4,000+ attendees
- Named the Van Tassel Innovation Center where Top enroller in several clinical trials – *"MHIF set the bar high for other sites! We enjoy working with your team!"* ~Sponsor

[Minneapolis Heart Institute Foundation 2022 Annual Report](#)

Our mission: patient care. education. research.

TC Spine's mission is to be an international leader in spine surgery by providing optimal patient care, publishing research that advances clinical practice, providing a leading U.S. training program and making lasting contributions to the field of spine surgery. Our research program is one way that we work to improve our patients' satisfaction and functional outcomes.

2022 Research & Education highlights

- **Professional Publications: 11 Papers** We published 11 manuscripts in 8 medical journals, including Spine, Spine Deformity, Clinical Spine Surgery, the Journal of Bone and Joint Surgery, the European Spine Journal, the Journal of the American Academy of Orthopaedic Surgeons, the Journal of Turkish Spine Surgery, and the Journal of Clinical Neuroscience. Additional papers are in submission and under review.
- **24 Retrospective Research Studies** TC Spine's clinical outcomes research database, our PACS system of radiographic data, and data gathered in collaboration with Allina Health are used in these studies. We are also involved in spine society-based research, utilizing those data bases in collaboration with other spine centers.
- **3 Prospective Research Studies** These studies involve enlisting patients as subjects and collecting data on them on an ongoing basis with data analysis at the completion of enrollment.
- **1 Biomechanical Research Study** In our state-of-the-art research laboratory, we evaluate surgical techniques, test implants, and explore other technologies. Our active study is running behind as cadaveric tissues were difficult to obtain during the COVID-19 pandemic; we are now using computer models and computational analyses in lieu of human tissues to meet the study's objectives.
- **The Visiting Professor Symposium** and our Monday clinical conferences provided Continuing Medical Education credits for 81 medical professionals.

[Twin Cities Spine Center Research & Education](#)

Allina Health Research Support

Internal supports of Allina Health Research include Research Administration, Clinical Research Informatics & Analytics and Research Integrity.

Research Administration robustly provides operational support that includes targeted grant searches, budget preparation, financial management of grants in accordance with sponsors, government, and organizational requirements, legal preparation of research contracts and agreements, research billing and compliance, and clinical data analytics and statistical support.

The Clinical Research Informatics & Analytics (CRIA) team is to apply the science of information management to enable the effective and efficient execution of clinical research, including clinical trials, observational studies, and outcomes research.

Research Integrity is comprised of the Human Research Protection Program (HRPP), Institutional Review Board (IRB), and Research Compliance & Conflict of Interest Programs.

In partnership with the Research Community, these teams work to protect and respect the rights and welfare of subjects involved in human research involving Allina Health's employees, facilities, patients, and data.

The Allina Health Research community are also supported externally as members of Federally sponsored programs. The Patient-Centered Outcomes Research Institute (PCORI) through the Great Plains Collaborative Clinical Research Network (GPCNet) provides access to broad databases and research opportunities for our provider-scientists. We are also members of the Federally supported (through the Minnesota Department of Health, MDH) Minnesota Electronic Health Records Consortium (MNEHRC) which provides data to the MDH in support of resources allocation and allows our providers-scientist to participate in sponsored research efforts.

Support by the numbers

Research Administration

Research Contracts & Agreements

- 265 Agreements reviewed
- 48 New clinical trial agreements and work orders

Research Billing

- 113 New studies reviews
- 4,659 patient visits linked to Research in Excellian
- 844 "unique" patients
- \$843 K Revenue to AH facilities for clinical research services

Research Grants & Finance

- 24 New grants awarded from the federal, state, and Allina Health Foundation (AHF)
- 14 New industry awards
- 25 AHF active awards. Including 6 new ones
- \$4.8 M total research-related revenue managed through 51 cost centers
- 8 System-wide non-research Federal & State grants supported
- 0 Federal Single Audit findings against AH (4 consecutive years)

Clinical Research Informatics & Analytics

- 103 Projects/studies supported or managed by CRIA
- \$376 K External revenue to AH Research

Research Integrity

Institutional Review Boards

- 759 Allina Health IRB submissions reviewed
- 849 Designated External IRB submissions processed

Research Compliance

- 21 Site visits
- 28 IRB Internal reviews
- 21 Site consults

Research Conflict of Interest

- 903 Conflict of Interest disclosures submitted
- 175 Individual's with positive disclosures identified
- 60 Conflict of Interest Management Plans executed

Human Research Protection Program

- Association for the Accreditation of Human Research Protection Programs (AAHRPP) conducted a site visit in November 2022 with no reported concerns.

New and recognized Research Team members in 2022



EOY 2022 Research Operations Team Event
L-R: Linda Shay, Mai Yang, Sandra Castro-Pearson, Lizzie Royce, Sophia Hanks, John Nelson, Shannon Mills, Smith Meuangsakth, Honglan Zhong, Mike Fulcher, Carmi Anderson

Research Administration

Elizabeth (Lizzie) Royce, promoted to Research Billing Compliance Specialist

Thomas Schouweiler, promoted to Sr. Research Contract Specialist

Research Integrity

Megan Hinrichsen, Ph.D., joined as a Compliance & Privacy Consultant

Tanya Olson, promoted to Compliance & Privacy Consultant, Sr.

Clinical Research & Informatics

Asha Farah, joined as a Research Informatics Data Analyst Associate

Sandra Castro-Pearson, joined as a Research Statistician

JoAn Hall, promoted to CRIA Team Lead

Honglan Zhong, promoted to Senior Research Informatics Data Analyst

Cancer

Jennie Schletty, joined as a Clinical Research Specialist

Melissa Clarkson, joined as a Research Nurse –

Payton Kaiser, joined as a Regulatory Specialist

Jonathan Alexander, joined as a Project Manager

Jordyn Hood, joined as a Research Nurse -

Riley Johnke, joined as a Clinical Research Specialist

Neuroscience

Payton Kaiser, BA joined as a Senior Clinical Research Regulatory Specialist*

Nimco Essa, BS joined as a Clinical Research Specialist

Marie Meyer, MA, CCC-SLP assumed the role of Manager of the Neuroscience Research team

Riley Johnke, BS joined as a Clinical Research Specialist*

Katie Johnson, AAS joined as a Clinical Research Specialist*

*indicates staff shared with other departments



Allina Health Research Publications

1. Stout TE, Regmi SK, Daneshmand S, Porten SP, Pohar KS, Konety BR. Clinical Utility of Rigid Blue Light Cystoscopy: Results from a Post Procedure User Survey in a Prospective Multicenter Registry. *Urol Pract.* 2022 Jan;9(1):94-100. doi: 10.1097/UPJ.000000000000280.
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9. Mitra AP, Narayan VM, Mokkalapati S, Miest T, Boorjian SA, Alemozaffar M, Konety BR, Shore ND, Gomella LG, Kamat AM, Bivalacqua TJ, Montgomery JS, Lerner SP, Busby JE, Poch M, Crispin PL, Steinberg GD, Schuckman AK, Downs TM, Svatek RS, Mashni J, Lane BR, Guzzo TJ, Bratslavsky G, Karsh LI, Woods ME, Brown GA, Canter D, Luchey A, Lotan Y, Krupski T, Inman BA, Williams MB, Cookson MS, Keegan KA, Andriole GL, Sankin AI, Boyd A, O'Donnell MA, Philipson R, Ylä-Herttua S, Sawutz D, Parker NR, McConkey DJ, Dinney CPN. Antiadenovirus Antibodies Predict Response Durability to Nadofaragene Firadenovec Therapy in BCG-unresponsive Non-muscle-invasive Bladder Cancer: Secondary Analysis of a Phase 3 Clinical Trial. *Eur Urol.* 2022 Mar;81(3):223-228. doi: 10.1016/j.eururo.2021.12.009.
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Book Chapters

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