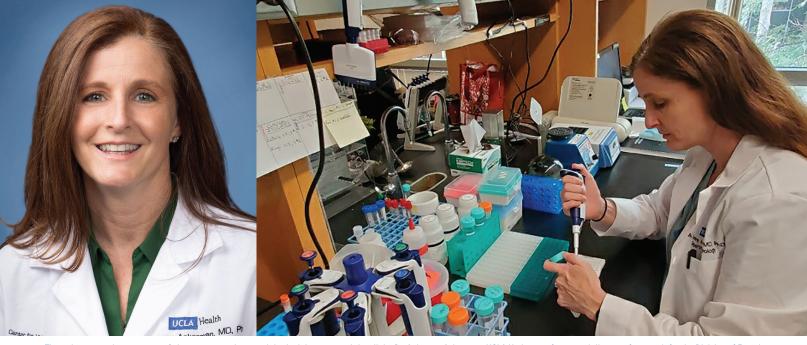




UCLA UROLOGY

UPDATE



Through compassionate, state-of-the-art care and research in the laboratory and the clinic, Dr. A. Lenore Ackerman, UCLA Urology professor and director of research for the Division of Female Pelvic Medicine and Reconstructive Surgery, is addressing a major quality of life issue that affects tens of millions of women in the U.S., as well as many men.

Ensuring Women With Incontinence No Longer Have to Suffer in Silence

rinary incontinence — the accidental leakage of urine — is extremely common, particularly among older women. It's also highly treatable. And yet, says UCLA Urology's A. Lenore Ackerman, MD, PhD, assistant

professor and director of research for the Division of Female Pelvic Medicine and Reconstructive Surgery, many people are either embarrassed to bring up the topic with their physician or assume it's an inevitable consequence of aging that they must live with. Too often, physicians are trying to manage so much that they can't find the time to bring it up with their patients, Dr. Ackerman adds. And when the problem is discussed and patients decide to pursue treatment, in many cases the initial approaches can be ineffective, prolonging the symptoms and causing many to

give up without any resolution.

As a result, tens of millions of women across the country suffer in silence. "Too little attention has been paid to how widespread urinary symptoms are and how terribly incontinence can impact quality of life," Dr. Ackerman says. "It contributes to depression and relationship problems, and is a leading cause of admissions for older adults into nursing homes, as well as a contributing factor to falls. Many will withdraw from certain types of activities, and their friends and continued on page 2

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Addressing Incontinence



Dr. A. Lenore Ackerman

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family don't understand why. We're doing a huge disservice to a large proportion of the population by not acknowledging how common this is and improving the way we address it."

Dr. Ackerman, who sees primarily peri- and postmenopausal women with incontinence, voiding dysfunction, and pelvic floor disorders, is doing her part in addressing this major public health issue not only in her clinical practice, but also through her laboratory and clinical research. Her studies aim to assist patients and non-specialist physicians in diagnosing urinary symptoms with greater specificity so that treatments have a better chance of success.

She points out that there are many treatment approaches, ranging from pelvic floor muscle exercises and lifestyle and behavioral modifications to medications and interventional therapies such as Botox injections and nerve stimulators. And, although problems with urinary leakage are typically categorized as either stress incontinence (leakage when coughing, laughing, sneezing, or exercising) or overactive bladder, which includes urge incontinence (the frequent and/or sudden need to urinate to the point of disruption, and sometimes an inability to reach the toilet), there are many sub-categories, each of which likely has a different optimal therapy.

"Someone with stress incontinence needs to be treated differently from someone with overactive bladder," Dr. Ackerman says. "But even among

"Too little attention

has been paid to how

widespread urinary

symptoms are."

individuals with overactive bladder, there is a growing recognition that it represents multiple diseases. People with diabetes, multiple sclerosis or a prior stroke may all develop bladder symptoms that look like urgency, but the causes are different. Someone who runs to

the bathroom and always leaks isn't necessarily the same as the person who feels that urge only with certain triggers, or the person who doesn't actually leak, but feels the need to go to the bathroom much more frequently than they used to.

"Right now we tend to treat everyone the same way, and that leads patients to have to experience unnecessary side effects from ineffective treatments — and in many cases, to become frustrated and drop out of care before they get to the treatment that would work."

Dr. Ackerman's clinical research involves what's referred to as phenotyping of lower urinary tract symptoms — characterizing the symptomatic profiles of the many types of urinary incontinence and the optimal therapeutic approach for each, so that both diagnosis and treatment become more accessible to primary care physicians and patients. "Increasingly, we are moving toward precision medicine in the treatment of cancers, but we haven't seen that as much in benign urological conditions," Dr. Ackerman notes. Her goal is to create an automated resource, incorporating machine learning and artificial intelligence, in which patients' self-reported symptoms are used to inform more specific diagnoses, provide educational information, and point toward the best treatment options. By characterizing different patterns of symptoms, Dr. Ackerman has developed an initial algorithm for classifying patients, and is using machine learning to refine it over time. The next step involves correlating treatment outcomes with these symptom classifications so that in the future, a patient's symptom profile can be used to determine the best approach.

Dr. Ackerman's laboratory work takes the phenotyping concept a step further by probing for ways to use the urinary microbiome — the microbial environment in the urinary tract — to classify patients with even greater precision. "Sometimes, for example, patients will report pelvic pain, and it's difficult to pinpoint exactly what is going on," Dr. Ackerman explains. "We

have begun using microbe testing to further categorize patients, and now have preliminary data to suggest that it might help us do a better job of choosing treatments. Ultimately, we hope to use these microbial phenotypes as an additional prognostic factor,

in the same way that cancer tests are now being used to predict responses to different types of chemotherapy."

As a medical student at Yale University, Dr. Ackerman was drawn to urology by the opportunity to make a difference in people's quality of life. She chose UCLA Urology for her residency, and during her clinical rotation in female pelvic medicine and reconstructive surgery, fell in love with the patient population.

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'Bladder Pacemaker' Allows Her to Return to Daily Activities



It doesn't take more than a few minutes spent with Josephine Santa Anna to recognize that for all of her 91 years, she isn't lacking in energy. But as she got older, she began to experience overactive bladder, an all-toocommon condition that made her reluctant to leave her home.

Santa Anna constantly felt the need to urinate, and often there wasn't enough time to reach the bathroom. Before planning an outing, she had to

map out where she could find the nearest facility. And since she was frequently wet regardless, there were many times when she simply chose to stay in. "I was embarrassed," Santa Anna explains. "One time one of my neighbors saw me and said 'Josephine, did you sit down on water? Your pants are all wet."

After years of suffering, Santa Anna learned from her daughter, a nurse who had gone to school at UCLA, about Dr. Shlomo Raz, a world leader in the treatment of voiding dysfunction who at the time headed UCLA Urology's Division of Female Pelvic Medicine and Reconstructive Surgery. Dr. Raz, along with his then-clinical fellow A. Lenore Ackerman, MD, PhD, addressed the problem through sacral neuromodulation. The procedure involves surgically implanting a "bladder pacemaker" device that stimulates the sacral nerve with mild electrical pulses to inhibit the abnormal signals that can set off the cycle of urinary urgency.

The device had a dramatic impact, but it also came with a shelf life — at the time, approximately 5-7 years. So when Santa Anna recently began to experience a recurrence of her symptoms, she went back to UCLA. By then Dr. Raz had retired, but Santa Anna was pleased to learn that Dr. Ackerman was now a member of the UCLA Urology faculty and could replace the older device with one that was smaller, more comfortable and more durable.

"Ms. Santa Anna remembered me from when I was a clinical fellow, and I was honored that she trusted me with her care when she needed to return," Dr. Ackerman says. Once again, the results were dramatic: "I don't think she realized how much the effects of the previous device had worn off until we got it back and working again."

"Dr. Ackerman is wonderful —she takes her time to patiently explain everything, and she really cares," Santa Anna says. "I wish more people knew that there is good treatment for this problem. I know a lot of ladies who are going through the same issues."

HEALTHY AT EVERY AGE

Overactive Bladder

veractive bladder (OAB) is a condition characterized by a fear of urinary leakage with an urge, often sudden, to go to the bathroom. Many people with OAB also experience a frequent urge to urinate even when their bladder isn't full. OAB is extremely common, particularly in women after menopause, though many younger women and men are affected. Besides age and gender, risk factors include diabetes and spinal cord injury.

OAB has a substantial quality of life impact, often leading to avoidance of social activities and affecting relationship intimacy. Embarrassment or a sense that nothing can be done prevents many people from bringing up the problem with their doctor. But there are effective treatments for OAB, ranging from noninvasive lifestyle changes and fluid management to exercises, medications, injections, and nerve stimulation procedures. The first step involves talking with one's primary care physician or urologist to discuss the urination symptoms and factors that might be contributing. Diagnostic tests that can help to provide clues include a urine analysis to check for infection, ultrasound to assess the amount of urine that remains in the bladder after voiding, and urodynamic testing for further insights into how the bladder stores and releases urine.

Treatment for OAB typically starts with less invasive steps. These may include reducing consumption of water and other liquids that can worsen symptoms. Specialized physical therapists can assist patients in learning pelvic floor muscle exercises to reduce urgency, as well as with bladder retraining — using the pelvic floor muscles and psychological techniques to gradually increase the amount of time between bathroom visits, leading the bladder muscle to readjust. In addition, two classes of medications are available to help the bladder hold more urine over longer periods of time and reduce leakage.

When these strategies are not enough, procedural therapies are offered. These include botulinum toxin (Botox) injections, generally administered 1-2 times a year, to relax the bladder muscle; and nerve stimulation — most commonly in the form of sacral neuromodulation, which surgically implants a device to modulate the bladder nerves and reduce the frequency of urination. Though more invasive, these techniques tend to be more effective and longer lasting than medications.

UCLA Urology's A. Lenore Ackerman, MD, PhD, specializes in treating patients with overactive bladder and other types of voiding dysfunction. To learn more about her research and clinical efforts, see this issue's cover story.

For more information, visit www.uclaurology.com. To make an appointment, call (310) 794-7700.



Jeff Frieden



eff Frieden can still remember the shock he felt upon hearing from his doctor a decade ago that his bladder had become dysfunctional to the point he would have to catheterize himself every four hours for the rest of his life.

Born and raised in a middle-class household in Anaheim, California, Frieden became a self-made entrepreneur

as the CEO and co-founder of Auction.com, the world's largest online real estate marketplace, as well as its sister company Ten-X. When his bladder ceased functioning, he was only 50.

"I thought, are you kidding me?" Frieden recalls. "And I decided to go to UCLA, where I had heard they were doing some innovations."

Frieden describes his first visit to Dr. Shlomo Raz, then chief of UCLA Urology's Division of Pelvic Medicine and Reconstructive Surgery, as life changing. "He insisted on doing his own workup, and afterwards he said, 'I'll fix you – minor surgery,' "Frieden remembers.

Dr. Raz was true to his word, and Frieden has been a consistent supporter of UCLA Urology and other areas of UCLA Health ever since, having donated more than \$2 million. Most recently, he pledged a new gift of \$500,000 as the anchor donation in support of an endowed chair in mentorship being raised in honor of Dr. Mark S. Litwin, UCLA Urology professor and chair. He has also committed to leaving the department a planned gift of \$5 million.

"When you go from being told you had to self-catheterize every four hours for life to a doctor telling you he's going to fix you, you want to give back," Frieden says, laughing. "I am eternally grateful for the friendship I hold with Dr. Litwin and the care I have received from his outstanding team at UCLA. I'm honored to be the anchor donor to an endowed chair celebrating his leadership."

Frieden says that beyond the gratitude he feels for the impact UCLA Urology had on his life, he derives great pleasure from his philanthropy, both to UCLA and other institutions. "I'm the luckiest guy in the world, and I enjoy assisting others who are less fortunate," he says. "I want to help keep UCLA at the forefront of research and innovation, and to have the financial wherewithal to do so is extremely rewarding."

ALUMNI PROFILE

Una Lee, MD



hen Dr. Una Lee came to UCLA for her clinical fellowship in female pelvic medicine and reconstructive surgery a little more than a decade ago, she knew she would receive state-of-theart training from a world-leading program. But Dr. Lee came away from the experience with something she considers even more valuable than

the technical skills she learned. "I was taught not just to think critically and perform pelvic reconstructive surgeries, but to be truly compassionate and listen to patients," she says. "That has stuck with me."

As a urologist at Virginia Mason Franciscan Health in Seattle, where Dr. Lee provides care for women with pelvic floor disorders, she has drawn from the lessons of her UCLA Urology training to become a leading advocate for patient-centered care. "I've been struck by the need to revolutionize the care we provide for women," Dr. Lee says. "We need to listen, acknowledge, and validate the concerns of our patients, and to determine what they need to best comprehend their choices. Doctors do a lot of talking and then think they've informed patients, but we have to do a better job of actively listening and working with them as partners."

Dr. Lee is currently the primary investigator of a national study, funded by the Patient Centered Outcomes Research Institute, aimed at engaging women on the issues of importance to them when considering surgery for urinary stress incontinence. The project seeks to empower patients to become partners in the research, guiding the questions that are asked. Dr. Lee has also promoted patient-centered care and advocacy in her role as women's health chair and president-elect of the Washington State Urology Society, and as guest editor of special issues on women's health for the journal *Urology*.

She attributes part of her growth as a women's health urologist to her experiences traveling to Uganda with Medicine for Humanity, which was founded by Dr. Christopher Tarnay, a urogynecologist who is co-director of the UCLA Center for Women's Pelvic Health with UCLA Urology's Dr. Victor Nitti. Through the organization, Dr. Lee has helped to build the local capacity of surgeons to treat fistula and other pelvic floor problems. "We're there to help train doctors and heal women," Dr. Lee says, "but in the process we learn so much, and ultimately we are the ones healed by the experience."

Dr. Lee says it's her patients who keep her motivated. "To be able to help women live the lives they want after they were held back by their leakage, prolapse, or pain is incredibly rewarding," she says. "I'm grateful for my UCLA training, which was the launchpad to everything."

Letter from the Chair



UCLA Urology excels
at both [patient care
and bench science], and
the synergy ... elevates

everything we do.

any urology departments across the country provide superb patient care, while others boast outstanding bench science programs. UCLA Urology is among the select few that excels at both, and the synergy between these two pillars of our departmental mission elevates everything we do. Through a seamless back-and-forth between the research in the laboratory and the care in the clinic, we identify areas of inquiry, study them, and translate scientific discoveries into better care for patients at UCLA and around the world. The constant communication between UCLA Urology physicians and basic scientists informs the work in both settings. But our department also includes many exceptional individuals who are physician-scientists, with specialized training that allows them to lead teams that work in the lab to probe for explanations to phenomena they observe in their patients, and to leverage their clinical know-how to parlay bench findings into diagnostic and therapeutic advances.

Our cover story this issue highlights the work of a faculty member who exemplifies this invaluable duality. With doctorates in both medicine and immunology, A. Lenore Ackerman, MD, PhD, splits her time between treating women and men with incontinence, voiding dysfunction and pelvic floor disorders, and conducting research at the bench designed to improve the treatment of these patients by addressing bladder dysfunction through an understanding of the role of healthy and unhealthy bacteria. Dr. Ackerman also represents the best of our department's educational mission: After learning her craft at the side of Dr. Shlomo Raz, UCLA Urology distinguished professor emeritus and a pioneer in the field of pelvic medicine and reconstructive surgery, she now imparts her clinical and scientific skills to our trainees with an enthusiasm that is infectious, bringing reinforcements to a field where there is great need.

This type of triple threat – physician, scientist, educator – is rare in the U.S., but not within our department, where so many of our faculty bring the same energy to specific urological problems through their patient care, research, and mentorship. Their excellence in these three critical areas contributes to a whole that far exceeds the sum of its parts.



Mark S. Litwin, MD, MPH
Professor and Chair, UCLA Urology

actively listening and working with them as partners.

Kudos

A. Lenore Ackerman, MD, PhD, UCLA Urology assistant professor and director of research for the Division of Female Pelvic Medicine and Reconstructive Surgery, received the prestigious AUA 2021 Rising Stars in Urology Research Award for her project titled "The Urinary Microbiota and Host Inflammation in Lower Urinary Tract Symptoms."

Andrew Goldstein, PhD, UCLA
Urology assistant professor and UCLA
assistant professor of molecular, cell
and developmental biology, received
a \$156,000 Concept Grant from the
Department of Defense in support of his
research, "Working Models of Papillary
Kidney Cancer by Transformation of the
Proximal Nephron." Dr. Brian Shuch,
UCLA Urology associate professor and
the Henry Alvin and Carrie L. Meinhardt
Chair for Kidney Cancer Research, will
serve as a co-investigator for this study.

Ja-Hong Kim, MD, UCLA Urology associate professor, was senior author of a manuscript, "Fear and frustration among women with recurrent urinary tract infections: Findings from patient focus groups," published in the September issue of the Journal of Urology with co-authors Victoria C. S. Scott, Lauren W. Thum, Taylor Sadun, Melissa Markowitz, Sally L. Maliski, A. Lenore Ackerman, and Jennifer T. Anger. This publication was also featured in UCLA Health. Dr. Kim was chosen to serve as a plenary panelist discussing management of cystotomy during abdominal sacrocolpopexy at the American Urological Association's (AUA's) annual conference.

Steven Lerman, MD, the Judith and Robert Winston Chair in Pediatric Urology, director of the Clark Morrison Children's Urological Center at UCLA and chief of UCLA Urology's Division of Pediatric Urology, was selected to serve as one of the UCLA David Geffen School of Medicine (DGSOM) Educators for Excellence for 2021-22, in recognition of his educational accomplishments and commitment to teaching. Dr. Lerman will join a cadre of outstanding educators who will serve as the core teaching faculty for the Foundations of Practice course.

Leonard S. Marks, MD, UCLA Urology professor, and his research team composed of Wayne Brisbane, Merdie Delfin, Ely Felker, Samantha Gonzalez, Michael Gorin, Adam Kinnaird, Lorna Kwan, David Marshall, Shyam Natarajan, Jon Prescott, Alan Priester, Anthony Sisk, Laura Kim, Ren-Dih Shu, Richard Stock, Richard Stock, Nelson Stone, Jonathan Stone, Elizabeth Tran, and Michael Wilson, had seven abstracts accepted to the AUA annual conference, held in September.

Desiree Sanchez, MD, and James Weinberger, MD, UCLA Urology residents, earned the 2021 Excellence in Teaching with Humanism – Residents and Fellows Award from the Medical Student Council of DGSOM. They were recognized at the Hippocratic Oath Ceremony in June.

These students mentored by Kymora Scotland, MD, PhD, had their abstracts accepted and will be giving presentations at major conferences: Rebecca A. Takele (poster presentation at AUA conference but part of the Urological Society for American Veterans); Mayra I. Lucas (WCET, Hamburg, Germany; Urological Society for American Veterans); Jonathan R.Z. Lim (Congress of the Société Internationale d'Urologie, Dubai); Georgina Dominique (AUA annual meeting); Karan Thaker (AUA Western Section, Indian Wells, CA, and Congress of the Société Internationale d'Urologie, Dubai); Jacob Komberg (Congress of the Société Internationale d'Urologie, Dubai); and **Sapna Thaker** (AUA -Society for Infection and Inflammation in Urology).

Joseph D. Shirk, MD, UCLA Urology assistant professor, has been appointed associate chief of urology at the Greater Los Angeles VA Medical Center.

Brian Shuch, MD, UCLA Urology associate professor, director of the Institute of Urologic Oncology Kidney Cancer Program, and Henry Alvin and Carrie L. Meinhardt Chair for Kidney Cancer Research, was elected surgical oncology co-chair of the National Cancer Institute Genitourinary Cancers Steering Committee's Renal Cancer Task Force.

Renea Sturm, MD, UCLA Urology assistant professor, received a 2021-22 UCLA CTSI Institutional KL2 Translational Science Award for her grant, "Bioinspired Electrospun Urethral Scaffold Design: Biomechanical, Structural and In Vitro Evaluation."

James M. Weinberger, MD, UCLA Urology resident, and co-authors Robert H. Shahinyan, Shangyang Christopher Yang, Jesse N. Mills, and Sriram V. Eleswarapu had their abstract "Trends in Marketing, Pricing and Deployment of Shockwave Therapy for Erectile Dysfunction in U.S. Major Metropolitan Cities" chosen to be a part of the AUA21 press program in Las Vegas. It was one of only three abstracts selected to be on a panel with a moderator to discuss the study and take questions from reporters. The abstract will be presented at the AUA annual conference in September. Dr. Weinberger is mentored by **Drs. Sriram** Eleswarapu and Jesse N. Mills.

UCLA Urology Fourth-Year Residents Focus on Research

At the halfway point in their training, UCLA Urology residents step away from the clinics and operating rooms to spend a year conducting research. Following are the paths chosen by UCLA Urology's 2021-22 fourth-year residents:



Dr. Thomas Gaither will spend his research year employing qualitative research methods to develop a measure of anorectal sexual function. Under the mentorship of **Dr. Mark S. Litwin,** UCLA Urology professor and chair, he will develop and validate a new psychometric instrument to measure anorectal sexual function. "We anticipate this instrument will be adopted to assess the natural history of anorectal sexual function and its response

to various pathologies and treatments," Dr. Gaither says. He also recently joined the UCLA Gender Health Program's research team, where he analyzed the intake forms of more than 800 transgender and nonbinary individuals, assessing both their medical and surgical needs. The results of this research will be published in the *Journal of General Internal Medicine*. Dr. Gaither and his colleagues plan to continue efforts toward defining success after genderaffirming surgery.



For his research year, **Dr. Peter Muraki** will work with **Dr. Brian Shuch**, UCLA Urology associate professor, director of the Institute of Urologic Oncology Kidney Cancer Program and Henry Alvin and Carrie L. Meinhardt Chair for Kidney Cancer Research, to determine the best management for small renal masses. "Small renal masses are being increasingly identified incidentally on imaging studies,

and it is unclear exactly which masses require treatment," Dr. Muraki explains. "If the determinants of tumor growth can be elucidated, many patients could be spared from unnecessary surgeries or interventions. We have the opportunity to not only avoid the morbidity of unnecessary complications, but also decrease associated health care costs. In the future I aim to apply these findings to all patients I care for."

Dr. John (JT) Sigalos is devoting his fourth year to leading the research endeavors of the Men's Clinic at UCLA, under the mentorship and guidance of **Drs. Jesse Mills** and **Sriram**



Eleswarapu, where he will focus on new investigational methods to identify causes and possible therapeutic interventions for male factor infertility. "Many men experience infertility or sub-fertility with normal semen analysis, or have poor-quality semen for unknown reasons," Dr. Sigalos notes. Using next-generation sequencing technologies, his group will evaluate the semen in healthy, presumably fertile men seeking vasectomy

and compare these results to men seeking infertility evaluation with both normal and abnormal semen analysis results. "We hope this initial work will better elucidate factors contributing to male factor infertility beyond what is seen with standard semen analysis," Dr. Sigalos says. "I hope this work will be an initial step in sparking a career dedicated to helping men achieve their goals of starting a family."



Dr. James Weinberger will spend his research year working with **Dr. Victor Nitti**, the Shlomo Raz Professor of Urology and director of UCLA's Division of Female Pelvic Medicine and Reconstructive Surgery. With support from an HH Lee research grant award, Dr. Weinberger will lead a clinical trial investigating telemedicine as a platform to deliver guideline-recommended care for patients with overactive bladder. "This

non-inferiority trial is designed to provide an alternative option for care delivery that may result in improved patient satisfaction and medication compliance, as well as decreased cost, time, and travel burden for patients," Dr. Weinberger says. "In the era of managed care, identifying specific symptom complexes that are amenable to management via telemedicine with equivocal or better patient outcomes will be absolutely critical to curbing rising health care costs and increasing access to care. This work could support a paradigm shift in the management of a highly prevalent and costly disorder."

continued from page

"It was so rewarding to work with these women, whose symptoms have historically not received as much attention as they should, and to see the impact we could have," Dr. Ackerman says.

She stayed at UCLA for her clinical fellowship, training under Dr. Shlomo Raz, a world leader in the field who has since retired. "Dr. Raz was so dedicated to finding ways to make things better for

his patients, and he made them feel at every visit that that was his job," Dr. Ackerman says. "When I was introduced to these women and could see the tremendous opportunity to improve their lives through both patient care and research, I knew this was what I wanted to do with my career."

6



UCLA Health

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UCLA Health hospitals in Westwood and Santa Monica placed # 1 in Los Angeles, # 1 in California and

3 in the nation in the 2021 U.S. News and World Report rankings.



UCLA Urology: #8 in the Nation Highest Ranked in Los Angeles



The Men's Clinic at UCLA

DID YOU KNOW?

COVID-19 infection can affect the penis and cause erectile dysfunction (ED). At the Men's Clinic at UCLA, specialists perform comprehensive evaluations of COVID-related ED and provide rehabilitative therapy.

The Men's Clinic at UCLA is a comprehensive, multidisciplinary health and wellness center located in Santa Monica, now with locations in Burbank and Santa Clarita. For more information or to make an appointment, call (310) 794-7700.



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