

LANKENAU WINTER 2018

The EVOLUTION of Emergency Nedicine

LANKENAU RESPONDS WITH MAJOR EXPANSION

PLUS

Lankenau Physician's XPRIZE-Winning Tricorder Brings to Life a Science Fiction Gadget

The Patient Experience Fund The Schoenhut Family Legacy

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WITH THANKS From Nancy Ruth Fox I was in the Heart Pavilion for almost a week. The care I received was superb in all ways. No matter what the person's job, I was treated with dignity and compassion—a nurse who walked the floors with me in the middle of the night to ease the pain, another nurse who patiently and thoroughly explained everything and answered all of my questions in a way I could understand without being patronizing, the staff in dining services who were always ready to make a last-minute change and accommodate my schedule, the man who delivered one of my meals with whom I had a lovely conversation about spirituality. A surgical resident literally got down on his knees so he could look me directly in the eye as he kindly explained it was time for me to go home (as I already knew but clearly needed some convincing). Everyone cared about me as a human person, not "just" as a patient. Lankenau has a lot to be proud of.

president



am incredibly honored that Lankenau Medical Center is continually named among the very best in the nation. We are the grateful recipient of the highest and most respected accolades for clinical excellence and top performance in patient outcomes, patient safety and patient satisfaction from *U.S. News & World Report*, Truven Health Analytics, Healthgrades[™], the American Heart Association, Magnet[®] nursing recognition and many more. These remarkable achievements are a testament to the hospital-wide culture of excellence that permeates every area of our mission in patient care, medical education and scientific research.

As you'll read in these pages of *Lankenau Leaders*, our award-winning tradition is exceptional, but we steadfastly refuse to rest on our laurels. Following on the heels of the Heart Pavilion, our historic facility "of the future" completed in 2013, we constantly make significant and innovative investments in infrastructure, programs and services so that we can continue to put *patients and families first*.

- This is a momentous time for Lankenau, as we have broken ground on a new Emergency Department and Trauma Center that will triple the size of our current ED to meet patient demand.
- Our Level II Trauma Center, now in its second year of operation, is part of an elite group of only 40 Trauma Centers in Pennsylvania. This specialized service truly enhances our ability to deliver lifesaving care in the communities we serve. (Please see page 5.)
- Lankenau emergency physician Basil Harris, MD created a futuristic tricorder that has garnered worldwide acclaim, winning first prize in the Qualcomm Tricorder XPRIZE competition over a Harvard team backed by the cellphone giant HTC and the Taiwanese government. The prototype currently detects 34 common medical conditions including stroke and diabetes and is expected to eventually detect more than 100 conditions. (Please see page 6.)

Underlying our success is a strong foundation built on philanthropy and our community's desire to invest in Lankenau—many of our donors receive care, or have loved ones who receive care at Lankenau. Charitable gifts from grateful patients are the greatest endorsement that we are doing our job well. Please know that we are touched by each and every contribution, no matter the size. I am also honored to report that Lankenau employee-donors recently made their largest-ever collective contribution to the institution. This generosity from our staff, who serve on the frontlines of patient care, shows the level of engagement and enthusiasm each employee brings to Lankenau.

I sincerely thank you, our valued benefactors, for being a part of the Lankenau family. Your support, especially during these uncertain times in the health care industry, has undoubtedly helped to continue our legacy of excellence. Thank you for all you do to make Lankenau the best place to give and receive care.

Sincerely,

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Phillip D. Robinson, FACHE President, Lankenau Medical Center

The EVOLUTION of Emergency Medicine

LANKENAU RESPONDS WITH MAJOR EXPANSION

JOSEPH BUSHRA, MD, Lankenau's chief of emergency medicine, says patient volume has exceeded what our physical capacity can handle, which creates challenges.



ith a history of diverticular disease and kidney stones, Rich Massaro was no stranger to pain. But the pain that brought him to the emergency room just before dawn on that cloudy November morning felt fiercer than anything he had experienced before. The lower left part of his abdomen hurt so sharply that he could barely stand up—and when he tried, he vomited uncontrollably.

Massaro's wife, Mary, drove him straight to Lankenau, where triage staff discovered he was in hypertensive crisis, his blood pressure so high it could lead to severe organ damage if left untreated.

"What in God's name is happening to me?" Massaro recalls wondering as he was wheeled back to a room to begin a battery of tests. Dennis Duffy, the nurse assigned to his care, did everything he could to answer the question.



REDUCING WAIT TIMES is a top concern, so we're adding space where patients can wait



THE NEW EMERGENCY **DEPARTMENT**, scheduled for completion in 2019, will add 32,200 square feet of new construction. The expectation is that by 2025, the ED will be seeing 73,000 patients annually.

"Dennis explained what was going on every step of the way, but his willingness to listen was really key. He wanted both Mary and me to feel as calm as possible," Massaro remembers. Were they thirsty? Hot or cold? Was Mary's chair comfortable? And-the most important thing, in Massaro's mind- he kept coming back to check on the couple and share new information as it became available.

Duffy, a nurse at Lankenau for three decades, has always considered soothing patients to be part of his job. "When people come to the ED, they're frightened. I have a human response to that. Nurses must treat patients not only physiologically, but psychologically."

Over the past two decades, case volume has skyrocketed in emergency departments across the nation, challenging the "patient-first" philosophy shared by Dennis Duffy and his peers. Reasons for the rise abound but trigger the same crucial problem: overcrowding that taxes clinicians and jeopardizes the quality of care patients receive. To thwart this trend, Lankenau is embarking on a major expansion and renovation of its emergency department that will triple the facility's footprint. Upon its completion in 2019, this transformation will ensure that emergency caregivers like Duffy can continue to give all patients the same compassionate, highly individualized attention he gave Massaro.

Because, as Massaro says, "Everybody deserves the kind of incredible treatment I got."

THE HOSPITAL'S FRONT DOOR

The words "emergency department" traditionally evoke thoughts of trauma or acute illnesses like a heart attack or stroke. Today, though, ED professionals handle a broad range of non-emergency issues. The Centers for Disease Control and Prevention estimates that threequarters of the 130 million annual visits to U.S. emergency departments take place simply because people lack access to other care options; rather than arriving via ambulance, the majority of ED patients drive there themselves.

"We used to be called the 'accident ward,' but not anymore. Now you come to the ED to get diagnoses for issues that years ago, you would have seen a primary care doctor for," says Basil Harris, MD, PhD, an emergency medicine physician at Lankenau. "We do much more than stabilizing-our team comes up with a full diagnostic approach for all kinds of conditions. We have become the main entrance to the hospital."

Nationwide, more people are admitted to hospitals through the ED than any other way, with over half of all admissions originating there (excluding women who arrive to give birth). Its 24-hours-a-day, 365-days-a-year services draw people who need urgent care.

The result? Overcrowding. Joseph Bushra, MD, Lankenau's chief of emergency medicine, says patient volume has been increasing at an annual rate of 3 to 6 percent. "We need to expand for purely mathematical reasons," Bushra says. "Patient volume has exceeded what our physical capacity can handle, which

creates challenges such as the need to see people in nontraditional locations, like hallway beds. We've opened up a satellite wing three floors up from the ED to serve as our fast-track area. We just don't have enough space to care for the numbers of people we need to take care of."

Bushra adds that Lankenau's certification as a Level II Trauma Center last year means emergency response teams can now bring severely injured patients to Lankenau for around-the-clock surgical, neurosurgical, orthopaedic and intensive care services, rather than going downtown. Upgraded facilities will foster better care in these extreme cases.

Another explanation for the spike in ED volume stems from an aging population. Americans are living longer than they used to, meaning more prospective patients overall as well as the need for more multifaceted care; senior citizens use the ED twice as often as younger adults and require longer evaluations thanks to complexities like combined medications, concurrent chronic conditions and cognitive decline.

"It's great to see so many people in their 90s in our community, but they certainly contribute to crowding in the ED," Harris says.

CHANGES IN MOTION

The \$52.8 million ED project, which began in July, will involve renovating the existing 15,800-square-foot department and adding 32,200 square feet of new construction to create a total footprint of 48,000 square feet.

"However, this is not just about size and space. It's also a change in design to optimize patient flow," says Bushra. "The design incorporates input from people at every level: consultants, architects, staff members from physicians to physician assistants to nurses to technicians. Everybody had a say in how we could best care for large volumes of patients quickly and effectively." The expectation is that by 2025, the ED will be seeing 73,000 patients annually.

Lankenau's ED currently has 26 treatment spaces—a number that will jump to 57, including 54 private rooms with areas dedicated to SuperTrack (for patients with minor illnesses and injuries), intermediate and acute care, plus three dedicated trauma bays. An isolation room for highly contagious patients will be added, as well as a decontamination room for treating those exposed to hazardous materials and a private bereavement room for grieving families. A second CT scanner and ultrasound suite will join the ones already in place. To provide specialized care for the growing senior population, plans for the facility follow best practices in geriatric design.

"Reducing wait times was a top concern, so we're also adding space where patients can wait comfortably for lab test results, X-rays and other results, allowing us to bring the next patient into their treatment area," Bushra says.

Conducted in carefully planned stages so as not to disrupt ongoing patient care, the expansion space will be constructed adjacent to Lankenau's current ED and is slated to open in late 2018, with renovation of the current space complete in 2019.

The ED will remain open nonstop, and patient care will be streamlined seamlessly throughout construction. "While ambulance access will not change, our pedestrian entrance is a few steps away and is well marked," says Bushra.

Although a trip to the emergency room is nobody's idea of a good time, Lankenau is committed to meeting the needs of all patients so they leave feeling they were cared for with skill, efficiency and respect—like Rich Massaro did after treatment for what turned out to be stent colic, or pain caused by his body's reaction to a ureteral stent that had been inserted during a prior kidney stone removal procedure.

Massaro is happy to report that since that incident, he has not had to return to the ED. But if he did, "It would definitely be Lankenau's."

To learn how you can invest philanthropically in Lankenau's new emergency department, visit www.mainlinehealth.org/give-lankenau or call David Phillips, Executive Director of Development, at 484-476-8070.



WE'RE OPEN!

Renovations to Lankenau's emergency department are well underway but will not interrupt patient care at any point. Our team will remain able to provide advanced emergency care services throughout the entire three-year project. *To follow construction progress, visit mainlinehealth.org/LMCexpansion.*

SCIENCE FICTION BROUGHT to LIFE

Lankenau Physician's XPRIZE-Winning Tricorder Uses Artificial Intelligence to Diagnose Health Conditions

ne way Basil Harris, MD, thinks emergency room overcrowding might be curbed? Through widespread use of tricorders—yes, like the gadget made famous in the TV show "Star Trek." Although still years from appearing on the market, real-life tricorders are within surprisingly close reach. Harris himself—joined by three of his siblings and three friends—spent the past five years designing and building a device so promising that in April it won the prestigious Qualcomm Tricorder XPRIZE, outdoing more than 300 entrants from 38 countries.

Resembling an old-fashioned tape recorder, the tricorder used on "Star Trek" was held by the character Dr. McCoy, who would scan patients to receive a reading of their vital signs and other health markers. McCoy would interpret this information to come up with a diagnosis.

For its high-profile contest, "the Qualcomm Foundation decided that wasn't hard enough, so they pushed the challenge by making us create a device that took the doctor out of the equation," Harris says. "The system had to do the diagnosing on its own."



"One of my dreams is that I'm at work and a patient comes in with a tricorder and says, 'This is telling me I have pneumonia—here are my test results.' And I want to be able to fully trust that information and move onto the next step of care." BASIL HARRIS, MD

FROM LEFT: George Harris, Co-Founder and Chief Technology Officer, Basil Leaf Technologies; Basil Harris, MD; and Constantine "Gus" Harris, MD, FACS, Signal Processing and Hardware Specialist, Basil Leaf Technologies

Harris, a self-described "diehard science-fiction geek" who earned undergraduate and doctoral degrees in engineering before attending medical school, saw the competition as an opportunity to merge several of his interests. His team, aptly named Final Frontier Medical Devices, spent countless nights and weekends toiling in his home to produce a tool that met the XPRIZE parameters, which included weighing five pounds or less; diagnosing and/or ruling out 13 specific health conditions; monitoring five vital signs; sharing data with physicians in real time; and being operable by individuals with no medical background.

The result was a kit that measures health information using various blood chemistry and biological sensors and synthesizes it with analytics software on a machine like a tablet computer or a smartphone. Called DxtER (a combination of DX for diagnosis; tricorder; and ER for emergency room) and capable of identifying 34 conditions, "this isn't a magical box that you just wave over someone," Harris explains. "It contains pieces of equipment that the system guides you through using, step by step."

In stark contrast to the other top XPRIZE finalists—a team of 50 medical, science and programming professionals supported by a Taiwanese electronics company and the Taiwanese government—Final Frontier self-funded its efforts and used in-home 3D printers to make 65 kits for testing. Some components took as long as 24 hours to complete, but the group's patience paid off, netting them the \$2.6 million first prize.

Winning the contest was easy compared to what lies ahead, says Harris, now tasked with pursuing U.S. Food and Drug Administration approval for DxtER. Final Frontier aims to do this by pushing individual pieces of the kit through one at a time; a clinical trial to test the first sensor is already underway at Main Line Health, and additional tests will unfold at the University of California-San Diego (where XPRIZE evaluations took place).

"I'm proud of what we've done, but the truth is there are going to be tricorders from many manufacturers coming out, basically opening up a new field that can help level the playing field for people who don't have access to medical care," he says. "Some, like ours, will be geared toward home use. Some will be kiosk-like and in places like pharmacies. And some will be more rugged and might be deployed to locations like refugee camps to help people interface with providers. There are literally billions of people in this world who have zero access to care, and this type of technology could change that."

The XPRIZE competition required that users interact with tricorders independently, but Harris doesn't believe new technologies will replace physicians. He sees tricorders as instruments that can help patients interface more efficiently with health care professionals.

"One of my dreams is that I'm at work and a patient comes in with a tricorder and says, "This is telling me I have pneumonia—here are my test results.' And I want to be able to fully trust that information and move onto the next step of care," says Harris, noting that if a person starts getting his vital signs and other details while at home, treatment can begin more quickly, without the need for a lengthy emergency-room visit.

"The rigorous process of completing clinical trials to prove that these devices give reliable information on which we can make medical decisions will take years, but the fact that this work is in progress means the future of medicine is bright."

The PATIENT EXPERIENCE *Fund*

EACH AND EVERY DAY, LANKENAU MEDICAL CENTER

has the distinct privilege of providing top-notch health care to patients during some of the most challenging and critical times in their lives. A foremost goal is to deliver excellent care in an environment that patients and their families find compassionate, supportive and comfortable. We are pleased to share an example of how one family's journey and generosity have coalesced to make a difference for many at Lankenau.

In 2008, a chronically ill patient who stayed at Lankenau over several months found that mattresses throughout the hospital were not consistantly comfortable. This patient's grateful spouse, wanting to promote maximum healing and comfort for all patients, subsequently made a donation to purchase higher quality mattresses for Lankenau. The donor began testing various types, which resulted in the unexpected outcome of a bed manufacturer providing new mattresses for Lankenau—at no cost.

Since then, this benefactor, choosing to remain anonymous, has made annual donations to create the Patient Experience Fund in an effort "to enhance the comfort and well-being of Lankenau patients and their families, so that Lankenau can provide a superior patient experience." The "Patient Experience" is defined as what our patients and their families see, hear and feel as they interact with our people, processes and physical environment. With the donor's guidance, this fund has provided amenities ranging from new carpet and recliners in the fourth floor waiting areas, to flat-screen televisions throughout the hospital. Over the last eight years, the donor's vision and compassion has inspired many others to contribute to Lankenau, with the fund receiving more than 1,100 donations from patients, families, employees and physicians.

To date, the Patient Experience Fund has received more than \$500,000 for investments in Lankenau, including:

- Warming cabinets to provide patients with heated blankets, especially after surgery and giving birth
- Children's play tables in the Intensive Care Unit waiting rooms
- Sleeper sofas for oncology patients, hospice patients and their families who stay overnight
- Creation of a "Quiet Waiting Room" in the Emergency Department for patients and families
- Patient Quiet Packs with ear plugs, sleeping masks and other items reduce unwanted noise and light and to make their stay more comfortable

- · Replacement pillows
- Printing of special cards for patients to keep track of their medications
- Numbering of parking spots in Lankenau's garages, at the suggestion of a patient who had difficulty finding his car

"In making these magnanimous gifts, our donor noted that their loved one benefited from our attention to their personal wishes as much from our skilled care," says Lankenau President Phil Robinson. "The donor wants to be sure that every patient experiences the same individualized care."

Says Rabbi Max Hausen, rabbi emeritus of Main Line Reform Temple, "My wife, Shirley, and I have received wonderful care from so many Lankenau doctors for over 20 years. We give to Lankenau and

the Patient Experience Fund so that patients can continue to receive the same level of compassionate care in the best possible environment."

Annette Frawley, RN, MSN, is Nurse Manager for Lankenau's Perioperative Services and donates to the Patient Experience Fund. She says, "The Ambulatory Procedure Center is home to Lankenau's Outpatient Surgicenter, where more than 10,000 patients undergoing procedures pass through the doors on a yearly basis, along with at least 10,000 loved ones who accompany them. The Patient Experience Fund purchased eight

televisions for the surgicenter that play continuous ambient relaxation programming, and I've really seen a difference in patients—and their families being comforted. The televisions have helped create a therapeutic, healing environment for our patients, families and staff.

If you have suggestions for improving the patient experience, please call Laurie Watson, MSN, RN, Director, Patient Experience/Volunteer Services at 484-476-2137.

If you would like to donate to the Patient Experience Fund, please go to www.mainlinehealth.org/ supportlmc, use the enclosed postage-paid envelope or call the Development Office at 484-476-8101.



CHILDREN'S PLAY TABLES (above)

were added to the waiting rooms in the Intensive Care Unit while sleeper sofas (right) are now available for oncology patients, hospice patients and their families who stay overnight.





PATIENT QUIET PACKS

(left), warming cabinets that provide patients with heated blankets (right), and new recliners (below) are among the amenities made possible by the fund.





spotlight



EDUCATION

Medical School: Philadelphia College of Osteopathic Medicine, 1996

Osteopathic Internship: Philadelphia College of Osteopathic Medicine, 1997

Internal Medicine Residency: Abington Memorial Hospital, 1997-2000, Chief Resident 1999-2000

Hematology/Oncology Fellowship: Lankenau Medical Center, 2003

erri McHugh, DO, completed her hematology/oncology fellowship at Lankenau in 2003, when the world of oncology genetics research was just beginning. "When I first came to Lankenau for my fellowship, I was surprised to learn that so many employees, from staff through maintenance, have been here virtually their entire careers. What I quickly realized is why-Lankenau has a unique leadership environment of genuine concern and mutual respect, with the understanding that everyone has the unified goal of providing the best care to our patients. Main Line Health had the foresight to recognize the importance of the oncology genetics field and established the program first at Lankenau, Bryn Mawr and Riddle, later expanding to our Paoli, Exton, Newtown Square and Collegeville campuses," she explains.

McHugh credits Clifford Pemberton, MD, retired Lankenau oncologist, with teaching her compassion and to look beyond a person's disease. She adds, "The passion of Dr. Rachael Brandt, genetic counselor for the oncology genetics program when I was a fellow, made me look beyond cancer care to a place where we have the opportunity to prevent disease. I still work closely with her."

Now, 17 years later, McHugh is thrilled to also be considered a Lankenau "lifer." As Medical Director of Main Line Health's Cancer Risk Assessment and Genetics Program, she oversees genetic testing services and research for Lankenau, Bryn Mawr and Riddle Hospitals. By working with both affected and at-risk individuals, Dr. McHugh bridges cancer care and prevention. "I am honored to have just taken over as Program Director of the same fellowship program under which I trained and am excited to simultaneously continue to build the genetics program to new levels. Oncology genetics is one of the first system-wide programs at Main Line Health, which has grown to a team of five genetic counselors. Having a president like Phil Robinson-who is humble, visible, innovative and approachable-sets the bar high. Lankenau has also supported me personally and professionally in so many ways, championing the genetics program and also understanding the balance between career and life. This unique commitment to excellence keeps Lankenau a leader in health care."

alumi

Renee Bassaly, DO, completed her residency in obstetrics and gynecology in 2008 at Lankenau and was recently appointed Division Director and Fellowship Director of the Female Pelvic Medicine and Reconstructive Surgery division in the department of Obstetrics and Gynecology at the University of South Florida. She is active in research involving pelvic floor imaging and patient satisfaction. Renee and her husband, Michael, have four children and live in Tampa.

Nelson L. Charles, MD, FACC, FACP, completed his cardiology fellowship at Lankenau in 1976 and moved to Waco, Texas, where he served as staff cardiologist and chief of the ICU at Marlin VA Hospital. In 1979 he moved to Ft. Myers, Florida, where he has practiced clinical cardiology ever since. Last year, he retired from full-time practice; he now works part time with Florida Heart Associates, the largest independent cardiology group in the region, which he helped create in 1996. Charles reports that he will "forever be grateful to Dr. Leonard Dreifus and Lankenau for giving me the opportunity to train at Lankenau, a great institution."

One of the first graduates of Lankenau's pulmonary and critical care medicine fellowship in 2015, Joshua E. Danley, DO, is now board certified in pulmonary diseases as well as internal medicine. Danley joined Pulmonary, Critical Care and Sleep Associates, a private practice within Riddle Hospital of Main Line Health that provides inpatient and outpatient pulmonary consultation as well as intensivist management of a 14-bed ICU. Since joining the staff at Riddle, Danley has worked to bring linear and radial probe endobronchial ultrasound (EBUS) to patients and to help facilitate the roles of catheter directed clot lysis via a device known as **EKOS and advanced life support with extracorporeal** membrane oxygenation (ECMO), a treatment that uses a pump to circulate blood through an artificial lung back into the bloodstream. Danley and his wife have a son who recently turned four.

Eric M. Gnall, DO, FACC, completed his residency at Lankenau in internal medicine in 2001, a fellowship in cardiovascular disease in 2007 and a fellowship in interventional cardiology in 2008. Gnall is Lankenau's **Director of ECMO and Acute Mechanical Circulatory** Support and describes his work as "using the heart-lung machine to take over the function of the heart and lungs while they are rested and/or repaired." Also Director of the Simulation Laboratory at Lankenau, Associate Director for the Cardiovascular Disease Fellowship **Program and Co-Director of the Structural Heart** Fellowship Program, Gnall conducts research and clinical trials that are currently focusing on structural heart and the field of cardiogenic shock. "I chose Lankenau for my cardiology training because of renowned cardiovascular disease specialist Dr. James Burke, and every day I feel fortunate to be surrounded by those whom I consider to be the absolute best physicians, nurses, care providers and leaders. My work family is extremely important to me, and Lankenau's team is one I can count on."

Madhu Kandarpa, MD, FASN, has been awarded the coveted title of Fellow of the American Society of Nephrology for dedication to his specialty. Kandarpa has been practicing with Kidney Care Specialists in Kettering, Ohio, since 2009. He is particularly noted as an expert in the use of dialysis and currently serves as Medical Director at two DaVita dialysis units. Kandarpa was Chief Medical Resident in internal medicine at both Lankenau and Thomas Jefferson University Hospital and went on to complete his nephrology fellowship at Albert Einstein Medical Center in 2009. He also studied in the United Kingdom and is part of the Membership of the Royal Colleges of London.

Martin O'Riordan, MD, completed his three-year cardiovascular disease fellowship at Lankenau in 1994 and is the Director of Mercy Health System's cardiovascular service line. O'Riordan was recently











1 Renee Bassaly, DO 2 Nelson L. Charles, MD, FACC, FACP 3 Joshua E. Danley, DO 4 Eric M. Gnall, DO, FACC 5 Martin O'Riordan, MD



1 Veeraiah Siripurapu, MD, FACS 2 Mathias Stoenescu, MD 3 Ryan D. Reber, DO 4 Dana Teagarden, DO Ryan D. Reber, DO, completed his

honored as a "Healthcare Hero" by Main Line Today magazine for creating a comprehensive program that provides free physicals for underserved athletes. More than 500 Lansdowne high school students who would not be able to participate in sports otherwise have received full workups, many for the first time. O'Riordan's goal in creating this program was to prevent sudden cardiac death and other injuries.

"From day one when I began practicing as an attending, I felt well qualified to care for patients in all aspects of cardiology," says O'Riordan. "I attribute this to the excellent training I received from Dr. Jim Burke and others at Lankenau." O'Riordan returns to Lankenau often to lecture fellows in sports cardiology and congenital heart disease and is an associate clinical professor at Jefferson.

M. Fayez Rujubali, MD, graduated from Lankenau's Pulmonary and Critical **Care Medicine Fellowship Program in** 2016 and joined Respiratory Associates of Wynnewood, which is affiliated with Hahnemann University Hospital and Roxborough Memorial Hospital. Rujubali is actively involved in performing and teaching diagnostic and therapeutic bronchoscopy and endobronchial ultrasound techniques to medical students, residents and fellows. He serves on the ECMO steering committee and Lung Tumor Board and is the lead investigator on a bronchial thermoplasty project at Roxborough.

Veeraiah Siripurapu, MD, FACS, Division Chief of Surgical Oncology for Main Line Health, is board certified in general surgery and specializes in surgical oncology and hepatobiliary surgery. He earned his medical degree from Royal Free & University College Hospitals in London, U.K., and completed his general surgery residency and chief residency at Lankenau. Siripurapu completed a surgical oncology fellowship at Fox Chase Cancer Center in Philadelphia and was awarded the Thoracic Surgical Oncology Fellow Award in 2010. Prior to joining Main Line HealthCare, he completed a hepatobiliary fellowship at Methodist Hospital in Dallas, Texas.

Mathias (Matt) Stoenescu, MD, reports: "It is now 12 years since I graduated, and after a three-year stint at UConn Health Center, I moved on to Baystate Medical Center in Springfield, Massachusetts. I have been the electrophysiology fellowship director for about five years now and trained about nine generations of EPs and helped with training the general fellows, too. I have gained more appreciation of what Lankenau has been doing for a lot longer. I have also gained some friends by mentoring these guys and have learned a few things in return. Our program has grown every year, and atrial fibrillation ablations have been at the forefront, especially since cryo has come into play. Lankenau has been a good place to learn, and I will always remain fond of everyone who was instrumental into 'turning me from a liability into an asset,' as Dr. Peter Kowey put it so well."

Stoenescu delivered the Stewart E. First, MD, Commencement Lecture at Lankenau's Graduate Medical Education Commencement on June 12, 2017.

Ryan D. Reber, DO, completed his internal medicine residency and subsequently a pulmonary and critical care medicine fellowship at Lankenau in 2015. He is the Medical Director of the intensive care unit at Paoli Hospital. Additionally, he serves as teaching faculty for the internal medicine residency and pulmonary critical care fellowship at Lankenau. Reber was recently named one of *Main Line Today's* 2016 top doctors in pulmonary medicine.

Dana Teagarden, DO, is an obstetriciangynecologist at Tennova Turkey Creek Medical Center in Knoxville, Tennessee. Awarded "Preceptor of the Year" in 2015 by the South College Physician Assistant Program, Teagarden is Rotation Chair for Women's Health at Lincoln Memorial University-DeBusk College of Osteopathic Medicine. She says, "Lankenau and my OB/GYN residency experience are due all credit for the excellent training that has afforded me the opportunities I have now!" She adds, "Personally, I would also like to share with you that the preschool-aged triplets I had during my residency at Lankenau have completed their sophomore years of college, and one of them has completed his basic military training in the Air Force-this is probably my greatest accomplishment overall! I also was given the great honor of delivering the graduation speech for South College Physician Assistant Program in December 2016."

Lankenau Medical Center wants to hear from our Lankenau-trained fellows and residents. We look forward to sharing your professional and personal news, connecting alumni with each other and keeping you up to date with what's happening at Lankenau. Please take a moment to email Greg Reif, Associate Director of Development, at ReifG@mlhs.org.

philanthropy

Charitable gifts are crucial to support the important endeavors that keep Lankenau Medical Center, a nonprofit organization, at the forefront of advances in health care. The following are gifts and grants (\$25,000 and above) made to Lankenau Medical Center from December 2016 through July 2017. Our deepest appreciation goes to the individuals, foundations and corporations below.

The Estate of Anne D. Wurster fulfilled a planned gift of just over \$2 million to the Lankenau Foundation in support of capital projects related to oncology. Wurster and her late husband, Joseph, were longtime supporters of Lankenau and continued to contribute even after they retired and moved to the shore town of Pine Beach, New Jersey. Anne Wurster passed away in May of 2016 at the age of 93.

The Lankenau Foundation, in partnership with Gerald Marks, MD, received a \$1.5 million pledge from the Raynier Foundation to establish the James Widener Ray Endowed Chair in Colorectal Surgery. This gift qualified for a matching gift from the Foundation to result in the 10th endowed chair at Lankenau.

Jill Henry made a \$500,000 commitment through a donor-advised fund to support Lankenau's Colorectal Research and Education Fund under the direction of John Marks, MD. The gift was made in memory of Jill's father, Richard L. Henry, longtime friend of Gerald Marks, MD.

The Cotswold Foundation, through Lankenau Trustee I. Wistar Morris and his wife, Martha, made two recent gifts. The couple contributed \$200,000 to support cardiac research at Lankenau Institute for Medical Research (LIMR) under the direction of Charles Antzelevitch, PhD. They also gave \$125,000 to bring new cardiac imaging capabilities to the Lankenau Heart Institute through a program called HeartFlow® Analysis. This advancement, unique in the region, will be directed by Lankenau cardiologist Tom Phiambolis, MD.

The Women's Board of Lankenau Medical Center, which includes the auxiliaries the John B. Deaver Auxiliary, the Hamper Shop, the Nurses' Alumni Association and the Ladies' Aid Society, made a combined contribution of more than \$263,000 during fiscal year 2017 in support of a wide variety of clinical, educational and research projects. Initiatives that benefited include the Emergency **Department and Trauma Center** expansion, school bus transportation for the Deaver Health Education Center, a clinical trial management software system, social services funding and cancer research at LIMR. Additionally, their multi-year \$1 million pledge is supporting the Ladies' Aid Chair in Pastoral Care.

An anonymous donor made a \$250,000 commitment in tribute to the late Carroll A. Weinberg, MD, to establish a permanently restricted endowment in support of cancer research and continuing medical education at Lankenau.

Roberta and Ernest Scheller, Jr., made a \$200,000 contribution toward their \$1 million commitment that established The Ernest Scheller, III, Endowed Chair



in Innovative Cardiology. These gifts were matched by the Lankenau Medical Center Foundation (LMCF).

Louise and Peter Havens, LIMR Board Chair and Board member, MLH and LMCF, made gifts totaling nearly \$200,000 toward their \$1 million commitment to create The Mary L. Smith Endowed Chair in Pulmonology and Critical Care, a title held by Donald D. Peterson, MD, and The Mary L. Smith Center for Pulmonology Research at Lankenau Medical Center. Their gifts were matched by the LMCF.

Lankenau received several key contributions for the establishment of a new innovative partnership, The Lankenau-Israel Strategic Alliance (LISA). The LISA program will crosstrain and exchange cardiology fellows between the Lankenau Heart Institute and the Israel Heart Society (read more about LISA on page 21). To date, close to \$180,000 has been raised. Some key gifts are listed below.

• Mark J. Cohen, member of the Lankenau President's Advisory Council, and his wife, Jeannie, made a \$50,000 two-year commitment, with an initial gift of \$25,000. Cohen has led the development of the LISA initiative, from conceiving the idea through developing support.

- The Clayman Family Foundation, with guidance from foundation trustees Stephen Cohen (member of the Lankenau President's Advisory Council) and David Cohen, made a two-year commitment of \$40,000.
- The Daniel Veloric Foundation made a gift of \$20,000 on behalf of Renee and Daniel Veloric.
- Lisa and Arthur Berkowitz made a \$20,000 commitment over two years, with an initial gift of \$10,000 through a donor-advised fund.
- Other gifts are being made by the Julius and Ray Charlestein Foundation, Lankenau Medical Center and Joan and Bernard Zolot.

Aetna Inc. made two separate gifts totaling \$170,000 to support Lankenau's Health Career Academy under the direction of Main Line Health's Chief Academic Officer, Barry Mann, MD.

Grateful patient Michael Rubin made a \$125,000 pledge and first contribution of \$25,000 in support of Lankenau's Emergency Department Expansion project.

The Dana Foundation made a gift of \$125,000, completing its \$250,000 commitment to support clinical neuroscience research under the direction of Peter LeRoux, MD.

The W. W. Smith Charitable Trust made its final contribution of \$125,000 toward



its \$625,000 grant for translational cancer research at LIMR.

The Delema G. Deaver Fund made gifts totaling \$116,000 to support Lankenau's Mother/Baby Unit and other children's programs at Lankenau.

Pam and Tony Schneider made a gift of more than \$100,000 through the PTS Foundation,fulfilling their \$500,000 pledge supporting Lankenau's Master Facility Project.

An **anonymous donor** made a gift of just over **\$100,000** to support Lankenau's Patient Experience Fund.

Fred and Monette Robinson and Family made a \$100,000 pledge to dedicate one of four patient waiting areas in the Heart Pavilion in tribute to Frank McGeehin, III, MD, and in support of cardiovascular research within the Lankenau Heart Institute.

The estate of **Dorrance H. Hamilton**, through her charitable lead trust, made a planned gift of **\$100,000** to Lankenau, payable over two years. In total, Hamilton and her family have contributed more than \$2 million in support of Lankenau.

Medtronic Inc. has again awarded Lankenau a total of **\$90,000** in support of both the Structural Heart Fellowship and the Interventional Cardiology Fellowship.

Joanne and Richard Campion made gifts totaling more than \$81,000 in their continued support of the Michael A. Manko, MD, Chief Resident in Internal Medicine fund. Their philanthropy launched this initiative in 2013 and they have donated nearly \$180,000 to date.

The Clayman Family Foundation, with guidance from foundation trustees Stephen Cohen and David Cohen, made gifts totaling \$78,400 toward their \$105,000 pledge in support of cardiovascular research under the leadership of Peter Kowey, MD, and Charles Antzelevitch, PhD. Edwards Life Sciences made a donation of \$75,000 in support of Lankenau's Structural Heart Fellowship Program.

Barbara "Bobbi" Brodsky, a major Lankenau benefactor, established the Lori Brodsky Volunteer Service Award program in memory of her beloved daughter, Lori Brodsky—a treasured Lankenau volunteer whose spirit, dedication and kindness brought comfort and joy to countless patients and their families. The new annual award program is permanently endowed with Bobbi's gift of \$69,600 along with \$5,400 in gifts from the community and recognizes the tremendous value that Lankenau volunteers add to the patient experience.

Penny Weiner made a gift of more than \$65,000 toward her \$300,000 commitment to the Heart Pavilion to dedicate the registration desk and waiting area of the Cardiovascular Education Center in memory of her husband, Warren Weiner, LMCF Board member and campaign leader.

The Percival Roberts Trust made a firsttime grant of \$65,000 for equipment in Lankenau's NICU (Neonatal Intensive Care Unit).

A \$2.5 million grant from the 2013 Redevelopment Assistance Capital Program of the Commonwealth of Pennsylvania to support Lankenau's Master Facility Project was fulfilled with a final payment of \$62,500.

Karen and Dennis Marlo, LMCF Trustee, made a gift of \$57,500 supporting both the Master Facility Project and Lankenau's highest priority needs.

The Charter Foundation, under the direction of LMCF Trustee Leila Gordon, made a final gift of \$50,000 toward The Joseph and Ray Gordon Chief Fellow in Interventional Cardiology Endowment.

William and Paulajane Frankel made a \$50,000 gift in support of the Colorectal Research and Education Fund under the direction of John H Marks, MD, increasing their overall pledge to \$200,000.

Charlotte and Herb "Bud" Cook, through The Harry Cook Foundation, made a firsttime gift of \$50,000 "in appreciation for the outstanding medical services we are so fortunate to receive at Lankenau."

The Green Mountain Energy Sun Club made a gift of \$50,000 to support sustainability initiatives at the Delema G. Deaver Wellness Farm.

The McLean Contributionship made a \$50,000 gift in support of the Lankenau Emergency Department Expansion project.

LMCF Trustee Barbara Seegul and her husband, David, made a gift of nearly \$41,000, allocating nearly \$31,000 to Lankenau's Emergency Department Expansion and an additional \$10,000 for highest priorities.

Gerald Marks, MD, made contributions totaling \$38,000, with a \$33,000 gift toward his \$100,000 commitment supporting the Colorectal Research and Education Fund at Lankenau and a \$5,000 gift to the Gerald J. Marks Rectal Cancer Lectureship Fund.

Sheila Vegari, PhD, and Matthew Vegari, MD, made gifts totaling \$37,500 in support of cardiovascular services and highest priority needs.

Alexander Muller, PhD, Associate Professor, Lankenau Institute for Medical Research and member of the *1860 Society*—a group of physicians and scientists who have made commitments of \$25,000 or more to Lankenau and have contributed nearly \$2 million to patient care initiatives since its establishment in 2013—donated **\$34,000** toward cancer research at LIMR.

The Rena and Joshua Kopelman Foundation of the Jewish Federation of Greater Philadelphia granted \$31,250 toward their Lankenau Campaign pledge of \$125,000.



Pamela and David Berkman, through the Sybiel B. Berkman Foundation, made a \$30,000 gift to fulfill their \$100,000 pledge supporting Lankenau's Master Facility Project.

Arlene and Harold Sukonik and Family, through the Sukonik Foundation, made a gift of \$30,000 to support the launch of a Point of Care Ultrasound training program for the Department of Medicine. Their gift was made in honor of Lankenau physicians Ned Z. Carp, MD; Lee W. Greenspon, MD; Mark J. Ingerman, MD; Robert I. Schnall, MD; and Timothy A. Shapiro, MD.

LIMR scientist Ellen Heber-Katz, PhD, made gifts totaling \$29,000 to join the 1860 Society.

The William Albert and Eugenie Hummel Sullivan Fund contributed \$28,110 through the Philadelphia Foundation to support charitable care at Lankenau.

The Thomas H. and Barbara W. Gale Foundation granted \$25,000 as continuing support for the Cancer Risk Assessment & Genetics Program under the direction of Terri McHugh, DO, bringing the foundation's total support to date to \$272,500. Main Line Health President and CEO Jack Lynch and his wife, Deb, made a personal commitment of \$25,000 to Lankenau's Emergency Department Expansion project through the annual Employee Giving Campaign.

Boston Scientific Corporation granted **\$25,000** in support of the Rhythm and Electrophysiology Fellowship within the Lankenau Heart Institute.

Richard Nadeau, PhD, and his late wife, Joan, committed \$25,000 in honor of James F. Burke, MD, and George L. Martin, MD, to support Cardiovascular Education and Research.

Richard Seltzer made a first-time gift of \$25,000 to support cardiovascular research within the Lankenau Heart Institute.

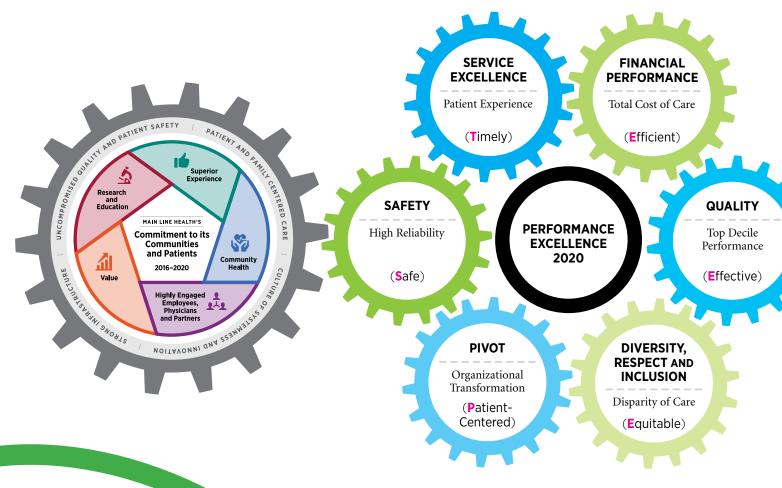
Deebeanne Tavani, DO, Lankenau endocrinologist, donated \$25,000 for diabetes education, making her the newest member of the *1860 Society*.

The Thornedge Foundation gave \$25,000 to support Lankenau's highest priority needs.

John L. Walsh, through the Patricia M. Walsh Charitable Fund, made a \$25,000 gift toward Lankenau's highest priority use.

ahead

Performance



These gears serve as a symbolic representation of the interconnection of our PE2020 work.

"By supporting our programs and services with their charitable gifts, year in and year out, our donors contribute to making health care better for all."

Excellence 2020

The health care industry is evolving more rapidly than ever, and not just in convenience, insurance coverages and patient expectations.

dvancements in science and technology have contributed to the kind of medical care and life expectancies that were once unimaginable, supported all over the globe by compassionate charitable citizens from every walk of life.

As the scientific understanding of illness and injury expands, however, so does the cost of the treatment it takes to restore individuals to wellness.

At Main Line Health, our Strategic Plan (2016-2020) specifies exactly what we need to do to provide superior care for our community. But accomplishing what we need to do depends on *how* we conscientiously manage the multiple priorities of a large health care system. Under our broad motivational banner of Performance Excellence 2020 (PE2020), Main Line Health has launched the highly structured Baldrige Performance Excellence Framework-a proven leadership model that provides an organized approach to decision-making, communication and deployment of work with measurable outcomes. Our goal is to create a highreliability and high-performing organization focused on safety, quality, equitable care delivery and financial responsibility.

The Baldrige Framework will help Main Line Health ensure that the processes we use—such as the coordination of patient care—are applied uniformly across our System. We want to ensure that the superior experience we strive to provide will be the same no matter which of our hospitals or outpatient sites you enter as a patient. The Baldrige Framework will also enable us to build a more efficient, data-driven environment designed to help us determine the most cost-effective ways to apply fixed insurance payments—which pay one price for a particular medical service whether you stay in the hospital one day or four.

With this structure in place, Main Line Health will streamline work processes by standardizing best practices and identifying ways to better manage our clinical resources. PE2020 sets the bar for what is expected of each of us as caregivers, colleagues and ambassadors for wellness in order to sustain our health care mission.

Ultimately, four pathways will help us achieve success: promoting a culture of safety for our staff and our patients; increasing focus on achieving top-decile performance in our key metrics; lowering costs to recognize the "new normal" in reimbursements without sacrificing quality care; and using our understanding of diversity, respect and inclusion to make us a better organization.

We are confident that Main Line Health is positioned for future success, knowing that it is not only our Boards, medical staff, administrators, staff and volunteers who are dedicating themselves to this effort. Our community also stands with us. By supporting our programs and services with their charitable gifts, year in and year out, our donors contribute to making health care better for all.

nedical center

PHYSICIAN AND SCIENTIST NEWS AT LANKENAU

Lankenau Heart Institute cardiologist Sandra Abramson, **MD**, Director of Cardiovascular Imaging, was named the Go **Red for Women® Heart Health** Champion for 2016-2017 by the American Heart Association. One of Abramson's goals in this honored role is to spread the message that heart disease is the No. 1 killer of women, responsible for more deaths than all forms of cancer combined. "It has been a common misconception that heart disease in women isn't as important as heart disease in men. Women get fewer stress tests, fewer cardiac catheterizations and fewer interventions than men. By raising awareness, funding women-focused research and educating the community, we are changing those statistics and creating a healthier and stronger future for women," states Abramson.

Pradeep Bhagat, MD, has

been appointed System Chair, Department of Pathology at Main Line Health. Bhagat has been serving as Interim Chairman of the department since 2016, succeeding Gary Daum, MD. He also serves as the Medical Director, MLH Laboratories; Chief of Clinical Pathology, Lankenau; and Lankenau Pathology Campus Chief.

Eucharia Borden, MSW, LCSW,

OSW-C, oncology social worker at Lankenau, has been named President-Elect of the Association of Oncology Social Work (AOSW). In January 2018, Borden will begin three years in office, first as president-elect, then current president and finally immediate past president. "Being a leader in AOSW means that I have the opportunity to do something meaningful by helping to ensure that oncology social workers are well prepared to address the psychosocial needs of patients, families and caregivers," she says. A member since 2012, Borden is currently Membership Director of the AOSW.

Joseph Gobern, MD, MBA,

FACOG, has been named System Chair, Department of **Obstetrics and Gynecology at** Main Line Health, based at Lankenau. Gobern most recently maintained a large clinical practice focusing on minimally invasive gynecologic surgery at Novant Health WomanCare in Winston-Salem, North Carolina. He was also on staff at the Maya Angelou Women's Health and Wellness Center, Forsyth Medical Center, and served as a clinical associate professor at **Uniformed Services University** and chair of the obstetrics and gynecology department at Walter **Reed National Military Medical** Center in Bethesda, Maryland. Gobern is an expert in the area of gynecologic laparoscopic surgery and has presented on the topic both nationally and internationally. A retired U.S. Army colonel, he devoted 29 years of service to the military and continues to serve as a consultant to the Army medical community. He is the recipient of numerous awards, including the Army **Commendation Medal, Order of** Military Medical Merit and the Legion of Merit.









1 Sandra Abramson, MD 2 Pradeep Bhagat, MD 3 Joseph Gobern, MD, MBA, FACOG 4 Nancy Roberts, MD

Gobern succeeds Nancy Roberts,

MD, who retired as OB/GYN System Chair in September 2016. **Roberts joined the medical staff** at Lankenau as the first maternalfetal medicine specialist in 1984 and became chairman of the department in 1995. She was integral in the creation of Main Line Health's Women's Emotional Wellness Center, championing equity in care, and in facilitating Lankenau's collaboration with the Mason Shaffer Foundation, which led to several successful stem cell transplants. She also led Main Line Health's perinatal safety efforts, including electronic fetal monitoring courses and simulation training. Roberts has been a role model to residents and staff alike. She is currently the chief medical officer of Axia Women's Health, a multi-state integrated OB/GYN practice.

Peter Kowey, MD, world-

renowned Lankenau cardiologist and The William Wikoff Smith Chair in Cardiovascular Research at LIMR, co-authored two new reports showing that increased screening for atrial fibrillation (AF) may identify patients at risk for stroke. In the U.S., approximately 795,000 people each year suffer a stroke and about 130,000 of them die. Survivors are often left permanently disabled. "Detecting asymptomatic AF early could provide a chance for health care professionals to save patients from a devastating stroke," says Kowey. "If physicians are aware of patients' AF, they could provide anticoagulation therapies, as well as suggest lifestyle changes that could significantly reduce the risk of a life-changing or life-ending stroke event."

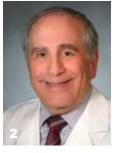
Howard A. Miller, MD, recently joined Lankenau's Main Line HealthCare Physician Network. A Philadelphia native, Miller has practiced in the region for his entire career. He specializes in complex diagnoses in internal medicine, as well as medical education. For nearly 40 years he was a member of the internal medicine faculty of Hahnemann Medical College (now Drexel University College of Medicine), where he rose through the academic ranks to become a tenured professor and Vice Dean. For the past five years, he has been named one of Philadelphia magazine's "Top Docs" and was included in Town & Country magazine's "Best Primary Care Physicians" listing. Miller is the recipient of more than 20 local and national teaching awards and is editor-in-chief of *Postgraduate* Medicine, a medical journal created by Charles W. Mayo, MD, of the Mayo Clinic.

ADVANCING CLINICAL EXCELLENCE

TRANSITIONAL CARE CENTER AT LANKENAU

Transitional care provides a bridge to help patients get back on their feet after a stay in the hospital and to support families during a loved one's transition from hospital to home. Lankenau's Transitional Care Center (TCC) has been working with the Abramson Center for Jewish Life since December 2015, and Abramson Senior Care took ownership of the TCC in December 2017. The facility now operates under the









1 Peter Kowey, MD 2 Howard A. Miller, MD 3 Sharon Larson, PhD 4 Norma Padrón, PhD, MPH name "Abramson Senior Care, Birnhak Transitional Care Center at Lankenau Medical Center." Lankenau anticipates numerous enhancements to operational efficiency and patient care, including 13 additional private post-acute beds and upgrading of the existing space.

MAIN LINE HEALTH CENTER FOR POPULATION HEALTH RESEARCH AT THE LANKENAU INSTITUTE FOR MEDICAL RESEARCH

With a focus on improving the health and wellness of the communities served by Main Line Health, in 2016 LIMR launched the Main Line Health Center for Population Health Research (CPHR) in collaboration with **Thomas Jefferson University's College of Population Health** (JCPH). "CPHR's researchers identify effective models to improve population health, as well as build evidence on successful implementation strategies," says George Prendergast, PhD, CEO and President of LIMR.

The Center's mission is to advance the understanding of population health by serving as a research and educational partner to Main Line Health, informing and assessing initiatives to improve health status and quality of life in the communities it serves. CPHR's researchers identify effective models to improve population health while building evidence for successful implementation strategies.

Sharon Larson, PhD, has been named executive director of the CPHR. An expert in social and behavioral health research, program evaluation and community-based research, Larson comes to CPHR from Geisinger Health System, where she held positions of increasing responsibility, including Chair of the Department of Epidemiology and Health Services Research. She previously served as the Associate Director of Science and **Division Director for Evaluation**, Analysis and Quality at the Substance Abuse and Mental **Health Services Administration** of the U.S. Department of Health and Human Services. She completed her PhD in sociology at the University of Nebraska, followed by a postdoctoral fellowship in psychiatric epidemiology at Johns Hopkins' University's Bloomberg School of Public Health. In addition to her new role at Main Line Health and LIMR, Larson will have a faculty appointment at JCPH.

Larson and Associate CPHR Director Norma Padrón, PhD, MPH, together with other Jefferson faculty, will work closely with Main Line Health clinicians and researchers to continue to identify and explore the underlying social, economic and physical determinants of population health in the community. In 2016, Padrón came to LIMR from the Icahn School of Medicine at Mount Sinai University, where she served as an Assistant Professor of health economics. She also served as an economist research scientist at the New York Academy of Medicine. Padrón was awarded her doctoral degree from Yale University. She earned a master's degree in public health from Universitat Pompeu Fabra in Barcelona, Spain, and a master's in economics from **Duke University.**

ADVANCING MEDICAL RESEARCH

George Prendergast, PhD,

President and CEO of LIMR. was a panelist at the 2016 Cancer Moonshot Summit, part of the **\$1 billion White House-led** national initiative to build new collaborations and partnerships in the fight against cancer, make more therapies available to more patients and improve ability of physicians to prevent cancer and detect it at an early stage. Prendergast shared the advances LIMR continues to make in cancer research. notably in cancer immunotherapy and nanotherapy.

NIH GRANT AWARD FOR BONE REGENERATION

The National Institutes of Health (NIH) has recognized the research of LIMR principal investigator Ellen Heber-Katz. PhD, by awarding her and collaborating researchers at the University of California at **Berkeley and the University** of Pennsylvania five-year grant funding of more than \$3.5 million from its National Institute of Dental & Craniofacial Research to evaluate the ability of an injectable drug to regenerate bone. Heber-Katz's grant received a score among the top 2 percent of submitted grants, reflecting NIH's enthusiasm for this unique research.

Bone degeneration occurs in a variety of diseases, especially in the elderly. Heber-Katz's

studies will focus on restoring bone tissue in the jaw, which degenerates as a result of latestage periodontal disease (PD). Studies show that PD, which is caused by bacterial infection, affects up to 70 percent of the population and is a major cause of tooth loss among those 65 years and older. This important work was founded in basic research Heber-Katz did more than a decade ago with the discovery of a strain of mice that is able to completely regenerate lost tissue. Previously, it was thought that mammals did not have this capability, unlike amphibians (such as newts) that can regenerate tissue normally.

NIH GRANT AWARD FOR NEURODEGENERATIVE DISEASES

NIH has recognized the groundbreaking research of LIMR principal investigator Melvin Reichman, PhD,

by awarding him and his collaborator at the University of Florida, Gainesville, twoyear grant funding of more than \$450,000 for their work on potential treatments for synucleinopathies, a family of neurodegenerative disorders that includes Parkinson's disease and certain forms of Alzheimer's disease and related dementias. "If successful, the research will deliver a drug lead candidate for treating Parkinson's and potentially have broader impact in advancing the development of treatments for other neurodegenerative diseases caused by protein misfolding,"









1 George Prendergast, PhD 2 Ellen Heber-Katz, PhD 3 Melvin Reichman, PhD 4 Albert DeNittis, MD

says Reichman, LIMR senior investigator who also serves as director of the LIMR Chemical Genomics Center.

NATIONAL CANCER INSTITUTE AWARD

The Main Line Health cancer clinical trials team was awarded a Silver Certificate of **Excellence from the National Cancer Institute (NCI) in** September 2017 for their exceptional achievement in patient enrollments in the NCI **Community Oncology Research** Program (NCORP). Since 2014, the team has enrolled 133 patients: 54 in cancer control trials and 79 in cancer treatment trials. Because MLH is one of only 34 NCORP community sites in the U.S., our patients have access to state-of-the-art clinical trials and new cancer treatments before they become available to the general public. MLH NCORP is led by principal investigator Albert DeNittis,

MD, Lankenau's Chief of Radiation Oncology. "We are proud to have been recognized for our impressive record of patient enrollments in NCORP," says DeNittis. "Research plays a vital role in patient outcomes. Based on research findings, we are able to offer patients at Main Line Health the latest treatment options for their particular medical conditions. Our involvement in the program also means that our cancer patients can play a more active role in their health care."



FROM LEFT: Mark Cohen; Itai Weissberg, MD, PhD; Peter Kowey, MD; and Charles Antzelevitch, PhD.

LANKENAU-ISRAEL STRATEGIC ALLIANCE ESTABLISHED

Cardiac Researchers and Clinicians Will Collaborate Internationally Officials at LIMR have announced a new program, the Lankenau-Israel Strategic Alliance (LISA), whose mission is to develop collaborations between physicians and scientists at Lankenau Medical Center and medical centers in Israel. Under the umbrella of the Israel Heart Society, the program will foster mutually beneficial cardiology research. The first LISA Fellow selected to participate, Itai Weissberg, MD, PhD, joined the Cardiovascular Research Program at LIMR on August 1, 2017.

This strategic alliance will facilitate an exchange of information, with an initial emphasis on heart rhythm disorders and the development of novel approaches to therapy. Future programs may include educationrelated exchanges among cardiac surgeons, including co-sponsorship of educational sessions at international cardiology meetings. Charles Antzelevitch, PhD, Executive Director of Cardiovascular Research at LIMR and Director of Research, Lankenau Heart Institute, who helped to initiate the LISA program, noted that he anticipates the program will "make impactful advances in the study and treatment of atrial and ventricular arrhythmias, particularly atrial fibrillation; inherited sudden cardiac death syndromes; and tissue and organ bioengineering."

In addition to Antzelevitch, the LISA initiative was developed by Peter Kowey, MD, a Lankenau-based cardiologist and immediate past System Chief of Cardiovascular Disease for Main Line Health; Mark Cohen, a member of Lankenau's President's Advisory Council; and Michael Glikson, president of the Israel Heart Society. Cohen and other local donors are funding the program with additional support from both Lankenau and the Israel Heart Society.

As part of their work, the LIMR and Israeli researchers will dvance the mission of the Lankenau Heart Institute, Main Line Health's premier, comprehensive cardiovascular medicine and surgery program. The Lankenau Heart Institute brings together the clinical expertise of all four Main Line Health acute care hospitals and community cardiology practices to ensure that patients receive a level of quality, service and experience that is unprecedented in the region. Through the Systemwide coordination of services, the Lankenau Heart Institute delivers preventive, diagnostic, therapeutic and rehabilitative cardiovascular services at each of our locations.



LIVE SURGICAL PROCEDURE

On February 20, 2017, Lankenau Heart Institute broadcast a live surgical procedure to an audience of 2,200. William A. Gray, MD, Lankenau's System Chief for Cardiovascular Disease and President of the Lankenau Heart Institute, and Lankenau cardiologist Amid Khan, MD, successfully performed a complex lower extremity intervention in a patient with lifestyle-limiting claudication, or lower leg pain due to insufficient blood flow to the muscles. The event took place as part of the Cardiovascular Research Technologies annual symposium in Washington, D.C. Dr. Gray was selected by the CRT17 conference to broadcast these procedures as the principal investigator involved with many interventional trials for cardiovascular patients, most of which will soon enroll participants at the Lankenau Heart Institute.

events



Havens Endowed Chair

On April 20, 2017, Lankenau held a celebratory dinner at The Walter and Leonore Annenberg Conference Center for Medical Education at Lankenau Medical Center to mark the establishment of The Havens Chair for Biomedical Research, generously endowed by Peter and Louise Havens. The first incumbent chair holder is George C. Prendergast, PhD, President and CEO, Lankenau Institute for Medical Research (LIMR). The Havens Chair was created through a \$1 million gift from Peter and Louise Havens that was matched by a \$1 million grant from the LMCF through its \$1 million+ matching initiative.

During Peter Havens' tenure, LIMR researchers have made myriad breakthroughs, including advancing a promising new cancer therapy using "IDO inhibitors" (experimental drugs originally discovered by Prendergast and Alexander Muller, Associate Professor at LIMR). IDO inhibitors that are now in multiple clinical trials have been named among the "top 10" experimental treatments that could cure cancer by the National Cancer Institute. **ABOVE:** Jack Lynch, President and CEO, Main Line Health; Louise Havens; Dr. George Prendergast, The Havens Chair for Biomedical Research and President & CEO, The Lankenau Institute for Medical Research (LIMR); Peter Havens, LIMR Board Chairman, Lankenau and Main Line Health Trustee; Lankenau President Phil Robinson; Robert Havens

BELOW: Dr. George Prendergast and Dr. Alexander Muller with LIMR Research Associate James DuHadaway and Bryn Mawr College Chairman and Professor of Chemistry Bill Malachowski, PhD. The team will collaborate to research new cancer therapies using IDO inhibitors.





Impact Investors

In recognition of their generosity and steadfast commitment to advancing Lankenau's mission, 100 of Lankenau's highest-level benefactors attended a special "Impact Investors" reception at the Philadelphia Museum of Art on September 27, 2016.

1 Kathleen Foster, PhD, The Robert L. McNeil, Jr. Senior Curator of American Art and Director of the Center for American Art at the Philadelphia Museum of Art, offered guests a fascinating look at medicine as portrayed in Thomas Eakins' two masterworks currently displayed in the American Gallery. 2 Lankenau President Phil Robinson with Sheila Vegari, PhD, and Matt Vegari, MD, who helped underwrite the event. 3 Michael J. Morris and Vincent Piazza, two of Lankenau's Impact Investors.





DEAVER GALA The John B. Deaver Auxiliary of The Women's Board held "An Expansion Gala" on March 4, 2017, at the Ballroom at Ellis Preserve to benefit Lankenau's new Emergency Department and Level II Trauma Center.

Joyce Moriarty (left) and Lissa Thompson, Women's Board Member



Lankenau major benefactor Barbara "Bobbi" Brodsky, who endowed a Clinical Cardiac Electrophysiology (EP) Fellowship at Lankenau in honor of Dr. Kowey; Lankenau President Phil Robinson; Bill Gray, MD; Peter Kowey, MD

Friends of the Heart

Lankenau held an intimate "Friends of the Heart" event on May 23, 2017, for special donors featuring two of Lankenau Heart Institute's experts, Bill Gray, MD and Peter Kowey, MD, who presented the latest innovations in the diagnosis and treatment of cardiovascular diseases. Kowev is The William Wikoff Smith Chair in Cardiovascular Research and Immediate Past System Chief, Cardiovascular Diseases, Main Line Health, and Gray is System Chief, Cardiovascular Diseases, Main Line Health and President, Lankenau Heart Institute. Remarks were also made by Charles Antzelevitch, PhD, Executive Director of Cardiovascular Research at the Lankenau Institute for Medical Research and Director of Research at the Lankenau Heart Institute, who spoke about the Lankenau Heart Institute's new collaboration with the Israel Heart Society.



Lankenau is one of the first hospitals in the nation to plant a year-round organic farm on its campus. In collaboration with Greener Partners and endowed by the Delema G. Deaver Fund, the Delema G. Deaver Wellness Farm produces a wide array of fresh fruit and vegetables and serves as a hands-on classroom for schoolchildren who visit Lankenau's Deaver Health Education Center. The McLean Contributionship also supported the farm's start-up costs.

LEFT: Farmer Jen Malkoun hands out arugula to students from Garrettford Elementary School.

Health Education Center Reopens

Lankenau opened the first hospital-based health museum in 1953. Today, the Delema G. Deaver Health Education Center provides a creative, hands-on learning environment that supplements the health education efforts of schools, families and community organizations. The nearly 10,000 schoolchildren who visit the center each year at no cost learn about general health, food and nutrition, and drugs and alcohol. The Delema G. Deaver Fund provided funding for the center's endowment, construction costs and technological improvements.

The Mary L. Smith Endowed Chair

In addition to The Havens Chair for Biomedical Research highlighted on page 22, the Havens family has established The Mary L. Smith Endowed Chair in Pulmonary and Critical Care Medicine in tribute to Mary L. Smith, a treasured and longtime Lankenau donor, trustee and patient. Lankenau hosted a celebratory dinner on October 14, 2016, to recognize the new chair, which will be held by Donald Peterson, MD, System Chief, Pulmonary and Critical Care Medicine for Main Line Health and Lankenau. Peterson is the first incumbent chairholder and System Chief, Pulmonary and Critical Care Medicine for Main Line Health and Lankenau.



Pictured from left to right: Maureen Krouse, HEC Program Specialist and Health Educator; Florastine Byarms and Helen Muldowney, HEC Health Educators; Chinwe Onyekere, Lankenau Associate Administrator; Deaver Fund Trustee Reginald Middleton; Lankenau President Phil Robinson.





From left: Steve and Ginny Berman; Ronna and her husband, LCMF Trustee Robert Hall; and LMCF Trustee Carol Cutler and her husband, Carl.



Teca 1860 Society

Lankenau Medical Center Foundation Trustee Steve Berman and his wife, Ginny, generously hosted a reception on October 5, 2016, at Teca Restaurant to celebrate the nearly \$2 million given to Lankenau by The 1860 Society since the group's founding. The 1860 Society is a philanthropic group of 47 committed physicians and scientists who have pledged \$25,000 or more to Lankenau.

The Barbara Brodsky Chief of Surgery Chair

On November 10, 2016, Lankenau held a celebratory dinner to recognize The Barbara Brodsky Chief of Surgery Chair at Lankenau Medical Center, established by Barbara "Bobbi" Brodsky. The first incumbent is Ned Z. Carp, MD, FACS, Chief of Surgery at Lankenau and Vice Chair of Surgery, Clinical Operations, Main Line Health. Brodsky established the chair with an extraordinary commitment of \$1 million.



FROM LEFT: Dr. Ned Carp, The Barbara Brodsky Chief of Surgery Chair at Lankenau Medical Center; Phil Robinson, Lankenau President; and Chair benefactor Bobbi Brodsky.



HOTO BY JB HENKEI

FROM LEFT: Peter Kowey, MD; Charles Antzelevitch, PhD; and Karen Nagel, PhD



Cardiovascular Dinner

Peter Kowey, MD, The W.W. Smith Chair in Cardiovascular Research, hosted a dinner with key grateful patients and supporters from the Lankenau community. The purpose of the gathering was to introduce William A. Gray, MD, the new System Chief of Cardiovascular Services and President of the Lankenau Heart Institute (LHI) and Charles Antzelevitch, PhD, Executive Director, Cardiovascular Research and Director of Research for LHI, to this select group and to hear their vision for the future of LHI and LIMR.



Pictured from left: Rev. Casey Bien-Aimé, MDiv, The Ladies' Aid Society Chair in Pastoral Care; Phil Robinson, Lankenau President; and Peg Cristofalo and Barbara Evans, Women's Board members.

Ladies' Aid Society Chair in Pastoral Care

A celebratory luncheon was held in recognition of the establishment of the Ladies' Aid Society Chair in Pastoral Care. The Chair was established by the Ladies' Aid Society and the Women's Board of Lankenau Medical Center. The first incumbent chairholder is Rev. Casey Bien-Aimé, MDiv, Chaplain.



Present at the inaugural Carroll A. Weinberg, MD Memorial Pancreatic Cancer Symposium (from left): Speakers Albert DeNittis, MD, Lankenau Chief of Radiation Oncology; guest lecturer Nipun Merchant, MD, Vice Chair of Surgical Oncology Services and Chief of the Division of Surgical Oncology at the University of Miami Miller School of Medicine; Charlotte Weinberg, widow of the late Carroll Weinberg; Ned Z. Carp, MD, Lankenau Chief of Surgery and The Barbara Brodsky Chief of Surgery Chair at Lankenau Medical Center; Bob Etemad, MD, Lankenau gastroenterologist; Erik Zeger, MD, Lankenau hematologist; and David Cohen, MD, Lankenau internist.

Weinberg Symposium

In March 2017, Lankenau hosted the inaugural Carroll A. Weinberg, MD Memorial Pancreatic Cancer Symposium to present the latest discoveries in pancreatic cancer research and treatment. Carroll A. Weinberg, MD, was an esteemed physician within both the psychiatric community in which he worked and the Lankenau family of physicians. Reflecting the Weinberg family's dedication to academic medicine and superior patient care, Weinberg's wife, Charlotte, recently established The Charlotte Cohen Weinberg and Carroll A. Weinberg, MD Fund for Cancer Research and Continuing Medical Education at Lankenau Medical Center.



Women's Heart Initiative

The Women's Heart Initiative (WHI) team hosted 185 guests for the third "Paint the Town Red" ladies night out shopping experience to raise awareness for heart disease among women and benefit Lankenau Heart Institute. Chaired by Lankenau Foundation Trustee Carol Cutler, heart disease survivor and WHI leader, the event raised more than \$11,000.

other events

SUKONIK LUNCHEON

Arlene and Harold Sukonik joined LMC physicians to celebrate their donation launching a new bedside Point of Care Ultrasound (POCUS) training program for residents and others.

DOCTORS' DAY

First observed in Georgia on March 30, 1933, Doctors' Day is celebrated at Lankenau every year. Red carnations denoting love, charity, sacrifice, bravery and courage were provided by the Lankenau Women's Board. This year, nearly 400 grateful patients sent donations and handwritten notes in tribute to their doctors.



Reginald Middleton, Trustee, Delema G. Deaver Fund; Charlene Hunter; Robert Chappelear, Senior Vice President, Wells Fargo Private Bank; and Peter Havens, Trustee, Lankenau Foundation and Main Line Health Boards and Chairman, Lankenau Institute for Medical Research Board of Trustees.

John D. Lankenau Reception

On May 11, 2017, the annual President's John D. Lankenau Reception was held at the Barn at Valley Forge Flowers in Wayne. The event featured kitchen demonstrations by Lankenau's Health Education Center educators, who demonstrated recipes from Lankenau's Deaver Wellness Farm. The event recognizes the support of nearly 300 members of the John D. Lankenau (JDL) Society, all of whom donate \$1,000 or more annually to support programs and services in patient care, research and medical education. Last fiscal year, the JDL Society contributed \$8.1 million toward these causes.

THE SCHOENHUT FAMILY LEGACY **AT LANKENAU**

n 1866, a young entrepreneur named Albert Schoenhut came to Philadelphia from Germany to continue the family tradition of toy making that was established by his father (Frederick), and grandfather (Anton). Schoenhut began repairing toy pianos for the John Wanamaker department store, and by 1872, his firm was manufacturing toy pianos in a workshop in the Kensington neighborhood of Philadelphia. The A. Schoenhut Company would become the largest toy maker in the United States and remains arguably the most famous American maker of wooden toys. Today, the toys, dolls and novelty items produced during the company's pre-World War I heyday are prized by connoisseurs, auctioneers and aficionados. In 1904, Albert Schoenhut became a member of the Board of Trustees for "The German Hospital of Philadelphia," which was renamed Lankenau Hospital 12 years later.

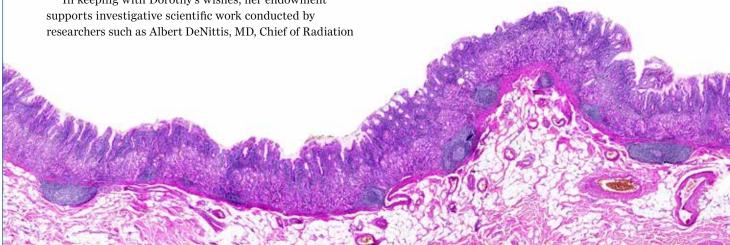
Schoenhut's granddaughter, Dorothy, had a strong connection to Lankenau. Grateful for the compassionate care provided by radiation oncologist Donald Red, MD, and oncologist Clifford Pemberton, MD, she wished to provide a permanent source of income to advance cancer research and treatment, an integral part of Lankenau's mission. In 1997, Lankenau was fortunate to receive a \$300,000+ bequest from Dorothy Schoenhut's estate, which created the Schoenhut Cancer Research Fund.

In keeping with Dorothy's wishes, her endowment

Oncology and Clinical Professor at the Lankenau Institute for Medical Research (LIMR). To date, DeNittis has published more than 38 peer-reviewed manuscripts, presented results at over 100 national meetings and oversees more than 60 clinical trials. DeNittis is also principal investigator for the NIH-funded National Cancer Oncology Research Program at Main Line Health. "I am able to pursue much of my work, and educate many, due to Ms. Schoenhut's generosity," says DeNittis. "Lankenau utilizes the most advanced technologies to fight cancer with more precision, including the TrueBeam[™]STx linear accelerator."

Lankenau President Phillip Robinson says, "The vision of one of Lankenau's first Trustees, Albert Schoenhut, and the generous bequest of his granddaughter, Dorothy, inspire our community. Ms. Schoenhut's gift was an act of love for mankind. She likely never considered the lasting legacy and far-reaching benefits of her thoughtful commitment, but the selflessness of her bequest as a grateful patient has gone on to benefit-and will continue to benefit-countless patients both near and far in perpetuity."

If you would like to discuss how to create your own lasting legacy by making a charitable gift to Lankenau through your will or retirement account, please contact David Phillips at (484) 476-8070 or PhillipsDa@mlhs.org.





give to

Charitable giving does not require great wealth.

What it does require is a generosity of spirit and the desire to benefit others in the community. Whether your interests lie in helping Lankenau provide critical medical services, underwriting programs of special meaning to you or supporting medical research or education, your gift can make an enduring impact.

You can make a charitable gift through your will/estate plan or even by making the Lankenau Medical Center Foundation a beneficiary of your Individual Retirement Account company sponsored 401(k) retirement plan, investment account or life insurance policy. It's a great idea to regularly revisit your retirement, investment, insurance, stock and mutual-fund accounts to make sure the primary and contingent beneficiaries are listed as you intend. You can name Lankenau Medical Center in your long-term plans today with no impact on cash flow or lifestyle. Doing so—and telling us about it—will make you a member of the Lankenau Legacy Society, an esteemed group of charitably minded individuals who help ensure that Lankenau remains a health care leader for our community well into the future. When you become a member of the Lankenau Legacy Society, your name will be included on all donor reports (unless you prefer to remain anonymous), and you will be invited to events and receptions featuring distinguished speakers on the latest breakthroughs in medicine and medical research, trends in health care, wellness and other engaging topics.

For additional information about the Lankenau Legacy Society, please call 484-476-8101.

Thank you.

Awards & Recognition 2017 MISSION: LIFELINE STEMI RECOGNITION AWARD

Lankenau Medical Center is a part of an elite group of hospitals recognized by the American Heart Association. This accomplishment signifies Lankenau's commitment to implementing specific quality improvement measures outlined by the American Heart Association for the treatment of patients who suffer severe heart attacks.

TRUVEN ANALYTICS

For the 10th time, Lankenau has been named one of the nation's 50 Top Cardiovascular Hospitals by Truven Health Analytics. Lankenau is the only hospital in Pennsylvania to be named to the list.

U.S. NEWS & WORLD REPORT

Lankenau earned a spot among the top 5 hospitals in the Philadelphia region and one of the top 10 in Pennsylvania. Lankenau is also recognized as high-performing in gastroenterology & GI surgery, geriatrics, nephrology, orthopedics and pulmonology.

CRITICAL-CARE NURSES' BEACON AWARD

Our Intensive Care Unit has been awarded the American Association of Critical-Care Nurses silver-level Beacon Award for Excellence in cardiothoracic intensive care.







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AN EVENING IN VENICE

ANNUAL GALA

Saturday, April 21, 2018