

February 2017

inside: Dr. Thomas Scalea's 20
Years of Success in Trauma



UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE

SOM *news*



Point of Pride

In 2013, the University of Maryland Medical Center opened its **Critical Care Tower, a 140,000 square foot extension of Shock Trauma** that houses nine floors of patient care space, including 10 additional operating rooms.



DEAN'S MESSAGE

The R Adams Cowley Shock Trauma Center is a global pioneer in trauma and critical care medicine, setting the standard for highest quality treatment for over 40 years. The Shock Trauma Center has not only saved the lives of critically ill and injured patients in our region, but has trained medical practitioners who serve around the world, including those who treat our military personnel overseas. Our trauma program is among the many clinical destination programs within the University of Maryland Medicine, and is a gem within the State's health care delivery system.

R Adams Cowley, MD, was a statewide treasure whose vision to establish a state-of-the-art trauma center, the access to which no patient was denied, was realized in 1973 when then Governor Marvin Mandel issued an executive order creating the Center for the Study of Trauma and the Division of Emergency Medical Services. Through his tireless efforts, Dr. Cowley built a system of emergency care delivery across Maryland, bringing together complementary, but previously diffuse, services of physicians, nurses, hospital administrators, and first-responders, as well as government officials and agency personnel. Indeed, the discipline of Emergency Medicine was borne, in large part, out of Dr. Cowley's passionate and relentless pursuit to prevent the critically ill and injured from dying from shock.

This year we celebrate the 20th anniversary of the leadership of **Thomas M. Scalea, MD**, the Honorable Senator Francis X. Kelly Distinguished Professor in Trauma Surgery; Professor, Department of Surgery; Director, Program in Trauma; and Physician-in-Chief, R Adams Cowley Shock Trauma Center. Over the course of my 10 years at the School of Medicine, I have rarely seen a faculty member so dedicated and passionate about serving his patients, students, trainees and colleagues. Although Dr. Scalea is widely known and regarded, both nationally and internationally, for his incredible expertise as a trauma surgeon, those who have worked with him or trained under him will tell you that Dr. Scalea is an equally gifted leader and mentor. He is carrying the torch of Dr. Cowley's original mission to provide cutting-edge care to ensure the survival of the critically ill and injured.

Dr. Scalea has augmented the excellence of the School of Medicine's trauma program by adding biomedical research as a key component to its success. Under Dr. Scalea's direction, and in collaboration with **Peter Rock, MD, MBA**, the Dr. Martin A. Helrich Chair for Anesthesiology and Professor, Department of

What's on My Mind...



...is the dramatic and profound impact that our trauma and critical care program has made on the lives of thousands of citizens in Maryland, the Mid-Atlantic region and beyond.

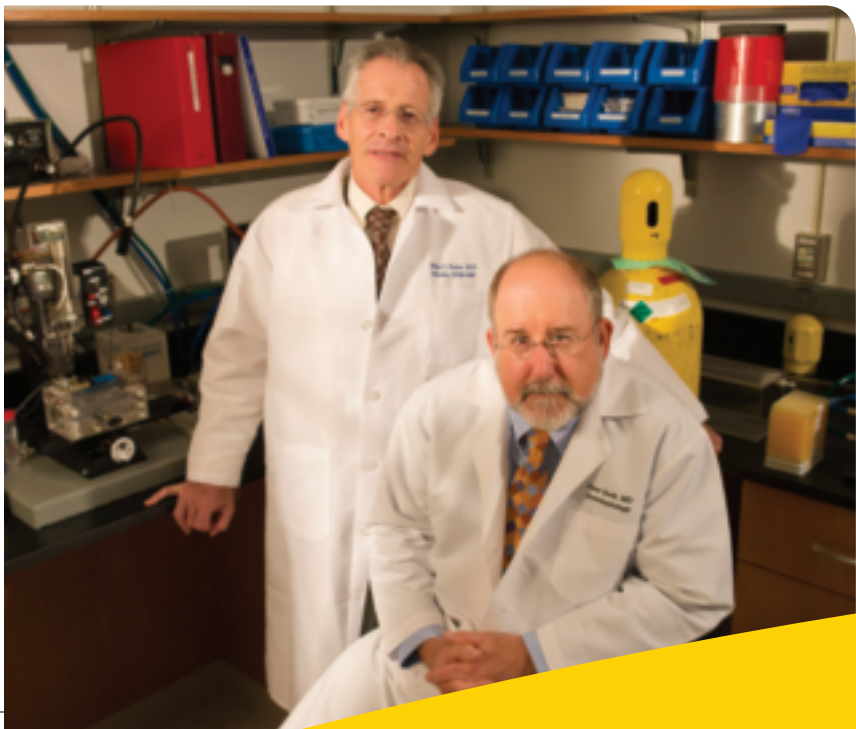
Anesthesiology, the research arm of the Shock Trauma Center expanded. This included the establishment of our internationally-recognized, multidisciplinary Shock, Trauma and Anesthesiology Research (STAR) Center change to and the recruitment of **Alan I. Faden, MD**, the David S. Brown Professor in Trauma; Professor in the Department of Anesthesiology; Director, STAR Center; Associate Dean for The Trans-Campus Research Advancement; and Scientific Co-Director, Center for Sports Medicine Health & Human Performance.

Since the STAR Center's inception, Drs. Scalea, Rock and Faden have engaged an academically outstanding faculty composed of physician-scientists, basic scientists and translational scientists, recognizing the impact that fundamental research discoveries can have on improving patient care.

The School of Medicine celebrates its **210th anniversary this year** and is proud to be home to such groundbreaking scientific leadership. Our trauma program has achieved top-tier status, and has become a world-renowned leader thanks to the visionary guidance of its founder, Dr. Cowley, and its current director, Dr. Scalea. Its success contributes greatly to the well-being of our citizens here in Maryland and around the world. We have a mission to improve the world of tomorrow by advancing knowledge of the most complex and pressing health and medical problems through innovation and discovery. The Shock Trauma Center stands as a shining example of this mission in action — applying the most up-to-date research to dramatically improve the chances of survival of every patient who comes through its doors, regardless of how challenging the circumstances.

In the relentless pursuit of excellence, I am
Sincerely yours,

E. Albert Reece, MD, PhD, MBA
Vice President for Medical Affairs, University of Maryland
John Z. and Akiko K. Bowers Distinguished Professor and Dean,
University of Maryland School of Medicine



Celebrating 20 YEARS

ON JANUARY 4, 1997

Thomas M. Scalea, MD, joined the University of Maryland School of Medicine and the University of Maryland Medical Center, becoming director of the R Adams Cowley Shock Trauma Center (STC).

GROWTH

Under his dynamic leadership, STC and the School of Medicine Program in Trauma have grown tremendously, vastly improving its ability to save lives, and helping to guide the practice of trauma medicine around the world. A new 140,000-square-foot Critical Care Tower opened in 2013, offering more room for the increasing number of patients being seen at STC. Over the course of his career at UM SOM and UMMC, Dr. Scalea, who is now the Honorable Francis X. Kelly Distinguished Professor of Trauma Surgery and Director of the Program in Trauma at the School of Medicine, and Physician-in-Chief of STC, has shown an unwavering commitment to trauma care, research and education. STC now treats more than 8,000 critically ill and severely injured people a year, and, remarkably, 97 percent of these patients survive every year. It is no wonder that STC is widely known as the world leader in trauma medicine.



GLOBAL HELP

As physician-in-chief, Dr. Scalea is responsible for all clinical care and medical administration. Shock Trauma delivers more trauma care than any other institution in the United States. Under Dr. Scalea's guidance, Shock Trauma has become a national and international resource for injury care. After the 2008 earthquake in Sichuan, Dr. Scalea took the only non-Chinese team invited by the Chinese government to provide medical care to the earthquake victims. Dr. Scalea also personally lead Shock Trauma's efforts after the earthquake in Haiti in 2010, and his teams were present there from the end of January until July.

Dr. Scalea earned a Bachelor of Arts degree from the University of Virginia and a Doctor of Medicine from the Medical College of Virginia. He served his residency in Syracuse, NY, and completed a trauma and critical care fellowship at the New York Medical College before becoming Director of Critical Care and Trauma at the King's County Hospital in Brooklyn, NY, where he founded the Department of Emergency Medicine at King's County Hospital and SUNY Brooklyn.



SAVING LIVES

Over the years, trauma care has grown increasingly complex; in response, Dr. Scalea has led the way by enhancing and

INNOVATION IN TRAUMA CARE



In 2000, Dr. Scalea was named the Honorable Francis X. Kelly Distinguished Professor of Trauma Surgery and Director of the Program in Trauma at the School of Medicine. Dean Reece and David J. Ramsay, DM, DPhil, honored Dr. Scalea at the bicentennial.

developing programs, processes and protocols that have led to better outcomes for tens of thousands of patients. These strategies and techniques are widely recognized as best practices, and have been adopted by many other trauma centers. He also leads the most competitive fellowship program for trauma care training in the country, and continues to spend untold hours working with patients in STC, providing time-sensitive critical care medicine to those most in need.

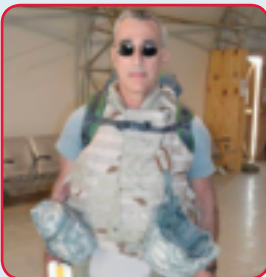


TRAINING

Dr. Scalea has also helped train the health care personnel who care for our military. He developed the Center for Sustainment of Trauma and Readiness Skills (C-STARS) program, which trains U.S. Air Force surgeons, nurses and technicians in trauma care. The Critical Care Tower houses a technologically advanced simulation facility, where teams can replicate conditions in the hospital and on the battlefield to enhance the skills of both civilian and military health care professionals. More than 4,500 Air Force medics have trained in the program over the last 15 years, and they have cared for at least 35,000 troops during that time. Air Force Lt. Col. Raymond Fang, MD, director of the C-STARS program in Baltimore and Clinical Associate Professor in the UM SOM Department of Surgery, says that the actual number is likely far higher.



Dr. Scalea has made numerous trips to war zones to see these doctors in action, to provide care, and to offer recommendations on how to improve trauma care in the field, and better determine how to continually refine the trauma training he and his staff provide to these physicians.



RESEARCH

In addition to his clinical accomplishments, Dr. Scalea has been a prolific scientific investigator with competitive federal

research funding. He has authored or co-authored 468 studies, 187 abstracts and editorials, two books and 75 book chapters on a wide variety of topics in trauma and critical care. Moreover, he also finds time to serve as a research mentor to other faculty.

But it is saving lives that remains Dr. Scalea's focus. In a recent letter honoring Dr. Scalea's anniversary, the Honorable Francis X. Kelly, Jr., Chair of the R Adams Cowley Shock Trauma Center Board of Visitors, said this: *"Dr. Scalea lives one mission: to give every patient a second chance at life. Most often, you will find him in the operating room or at the bedside, fully devoted to his patients and leading his team."*



GO-TEAM

While the Shock Trauma team has the experience to handle any kind of trauma situation, they were called to go to extraordinary lengths on December 17, 2016, when an ice storm led to a 68-car pile-up on a nearby freeway that included an oil tanker explosion. Hundreds were hurt, and ten of the most critically injured were taken to STC. None of those taken to STC died of their injuries.



STC also sent workers to the site of the accident — the GO-TEAM, which responds when a victim is entrapped and urgently needs trauma care at the scene. This physician-led team complements Maryland's Statewide EMS System by providing critical care and surgical services that are typically considered beyond the scope of prehospital emergency care. The GO-TEAM consists of an attending physician (anesthesiologist, surgeon, or critical care medicine specialist) and a certified registered nurse anesthetist. In an interview afterwards, Dr. Scalea said that the quick work at the scene made a big difference. *"It's really wonderful that were able to get everybody out, we were able to get everybody here, and everybody that got here was alive."*



Keeping people alive is what STC does best, thanks to the innovative leadership of Dr. Scalea. We congratulate him on his 20 years of superb leadership. Here's to at least 20 more!



NEW APPOINTMENTS IN DERMATOLOGY

Dr. Thomas Hornyak Named Chair and Dr. Zaineb Makhzoumi will be New Chief of Clinical Services



Dr. Hornyak

Dean E. Albert Reece, MD, PhD, MBA, has appointed **Thomas J. Hornyak, MD, PhD**, Associate Professor of Dermatology and an internationally recognized expert in melanoma and skin cancer, to be the new Chairman of the Department of Dermatology at the School of Medicine. He will also serve as Chief of Dermatology at the University of Maryland Medical Center (UMMC). In addition, **Zaineb Makhzoumi, MD, MPH**, an Assistant Professor in the Department of Dermatology and a skin cancer surgeon, has been named the Department's Chief of Clinical Services.

"We are fortunate to have Dr. Hornyak, a widely-respected physician-scientist, to provide strong leadership in raising the Department of Dermatology's overall profile — but particularly in expanding its research portfolio," said Dean Reece, who is also the Vice President for Medical Affairs, University of Maryland, and the John Z. and Akiko K. Bowers Distinguished Professor. *"With Dr. Makhzoumi providing leadership in Clinical Services, we have a powerful combination to propel this Department forward in new and innovative ways. I am confident that we will set a new standard for translational and discovery-based medicine in the field of dermatology,"* he said.

Scott Strome, MD, currently Professor and Chair, Department of Otorhinolaryngology — Head and Neck Surgery, has served as Interim Chair of Dermatology over the past several months. *"I must extend my sincerest and deepest gratitude to Dr. Strome, for doing an excellent job as he assumed interim leadership of this Department, resulting in significant changes and advances in the Department's clinical and educational programs. The School of Medicine is most grateful to him for his dedicated and effective leadership,"* Dean Reece added.

NEW ENERGY IN THE DEPARTMENT

Dr. Hornyak will become the Dr. Joseph W. Burnett Distinguished Professor and Chair in Dermatology.

Dr. Burnett was the founding Chair of the Department of Dermatology. Dr. Hornyak will also remain in his role as Associate Chief of Staff for Research and Development and Chief of Dermatology at the Baltimore Veterans Affairs Medical Center.

In his new position as Chair, Dr. Hornyak will work to recruit new faculty; create new programs focused on general dermatology, melanoma and skin cancer; expand collaborative research projects; and foster educational opportunities for medical students and residents. He will work collaboratively with Dr. Makhzoumi to expand clinical services for the Department locally and around the state.

"The opportunity to lead this department into the future is an extremely exciting one," said Dr. Hornyak. *"The department has a strong tradition of training dermatologists who remain in Maryland to deliver clinical care. I look forward to working with Dr. Makhzoumi to continue this strong clinical tradition while building interactions between the Department of Dermatology, and other clinical and basic departments at UM SOM, to develop unique clinical programs, and to enhance our research contributions to the field of dermatology,"* he said.

ENHANCING CLINICAL SERVICES

In her new role, Dr. Makhzoumi will report to Dr. Hornyak and will take a lead role in clinical operations of the department. She will help recruit new faculty, work to improve clinical services, and expand clinical opportunities for the department.

"I am very excited to take on this new role," said Dr. Makhzoumi. *"Our focus will be to foster our national repu-*



Dr. Makhzoumi

tation for state-of-the-art clinical care, as well as top quality education for medical students who are interested in dermatology."

FOCUS ON SKIN CANCER

Among other key programs, Dr. Hornyak and Dr. Makhzoumi will work on developing the Program in Cutaneous Oncology, a research and clinical program at the University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center (UMGCCC) that treats patients with both melanoma and non-melanoma skin cancers and conducts clinical research. *"As an NCI-designated Comprehensive Cancer Center, we are focused on building the highest levels of quality and excellence in every area of cancer research, education and patient care,"* said **Kevin J. Cullen, MD**, the Marlene and Stewart Greenebaum Distinguished Professor of Oncology at the School of Medicine and director of the UMGCCC, which was recently ranked among the top 25 Cancer Centers by *U.S. News & World Report*. "We look forward to working with Dr. Hornyak and Dr. Makhzoumi to further enhance our ability to translate discoveries in the laboratory into better treatments for skin-related cancer patients in Maryland and beyond. With **Richard Eckert, PhD**, Professor and Chair in the Department of Biochemistry and Molecular Biology, they will lead our efforts to develop a full research program in cutaneous malignancies within the Cancer Center."

They will also work to expand the existing Dermatology Consulting Service at UMMC — including expanding the outpatient dermatology service and improving care for patients with severe non-cancerous skin diseases, especially autoimmune blistering skin diseases. They will also focus on skin disease prevention, including in organ transplant patients, who are often at high risk of developing skin cancer.

Dean Reece concluded: *"We are excited to identify two stellar UM SOM faculty members, who are leaders in both research and clinical care in Dermatology, who will move the Department forward. In particular, we will be able to make a significant impact, not only on common dermatologic diseases, but preventing and treating this common, and potentially fatal, form of cancer that affects millions of Americans each year."*



NEW LEADERSHIP APPOINTMENTS IN THE DEPARTMENT OF DERMATOLOGY TO BRIDGE RESEARCH AND CLINICAL STRENGTHS

"With this new leadership team in place, we have a tremendous opportunity to transform this department into one of the most comprehensive dermatology programs in the region — a much-needed resource for patients with melanoma, other skin cancers, and skin diseases. We will be able to offer a wide range of services and exceptional clinical care while continuing to advance the science through research. Our patients stand to reap significant benefits."

— **Mohan Suntha, MD, MBA**

The Marlene & Stewart Greenebaum Professor of Radiation Oncology at the School of Medicine and President and Chief Executive Officer of UMMC



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